CATALOG

T&B® Cable Tray

Cable tray systems

T&B® Cable Tray is taking cable above and beyond. Its design includes innovative splice components that can reduce the need for supports and brackets, enable fast, one person installation and lower overall costs. For both power and data cable applications, T&B® Cable Tray provides true performance for the long run.

Table of contents

CABLE TRAY SYSTEMS

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is less expensive, more reliable, more adaptable to changing needs and easier to maintain. In addition, its design does not contribute to potential safety problems associated with other wiring systems.

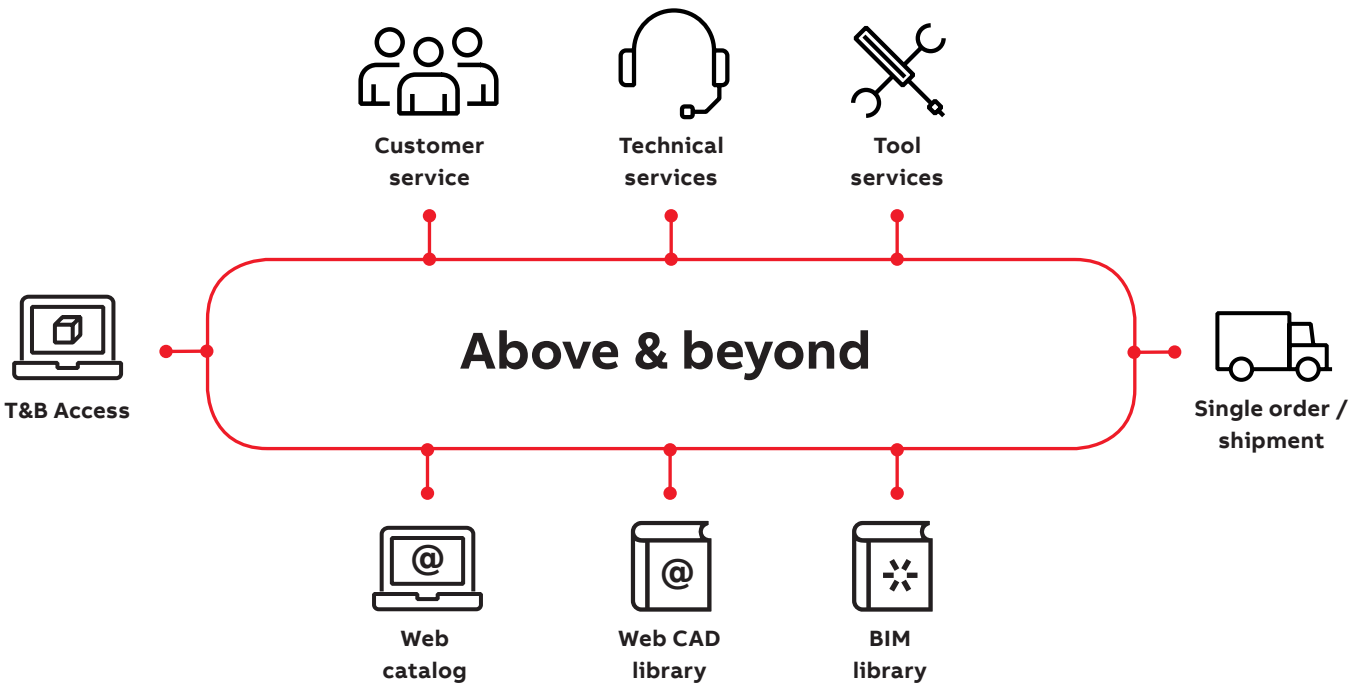
T&B® Cable Tray
Taking cable above and beyond

T&B® Cable Tray is taking cable above and beyond. Its design includes innovative splice components that can reduce the need for supports and brackets, enable fast, oneperson installation and lower overall costs. Its I-beam and welded construction offers greater strength and reliability. And its special Helix™ fittings make transitions easier. For both power and data cable applications, T&B® Cable Tray provides true performance for the long run.

At T&B, we're committed to:

- Products that provide solutions to your electrical needs
- Convenience of single-order, single-shipment to your site for thousands of stocking items
- Expert local point of contact for clear, consistent information regarding training, codes and standards
- Quality brands that have proven themselves over time
- Inventive design and manufacture of problem solving products
- Offering a best-in-class warranty
- Outstanding customer service capability. Supplying you with the right products, convenient packaging, on-time delivery and competitive pricing

We deliver the solutions that make your job easier and offer the power to bring it all together in one package. Call us today and let us help you profit from sourcing your electrical products from the leader, Thomas & Betts.



01

01 Customer service specialists personally serve your account and can answer questions about products, order status, price and availability and other service-related inquiries.

* National Electric Code and NEC are registered trademarks of the National Fire Protection Association, Inc.

T&B Services

T&B Access®
tnbaccess.tnb.com
T&B Access® is a multi-lingual, 24-hour, seven day-a-week global sales tool for our distributor partners that offers: quote requests, stock checks, pricing inquiries, cross reference, order entry and resolution, shipping status, document and web catalog look-up, automatic order receiving, item history search, multiple-location user search, context-sensitive help, shipping confirmation and tracking, expediting, returns processing, quality issues, customer report cards. Language options in English, French, and Spanish.

Customer service
Phone: +1-800-816-7809
Fax: +1-800-816-7810
Email: generalcustomerserviceteam@tnb.com
Customer service specialists personally serve your account and can answer questions about products, order status, price and availability and other service-related inquiries.

Technical services
Phone: 1-888-862-3289
Call our technical services department and talk LIVE to an expert who'll answer questions and concerns regarding all aspects of our products and services.

Tool services
Phone: +1-800-284-TOOL
T&B's dedicated tool services department answers all questions regarding tool applications, repair, warranties, sales/lease/rental and technical information. Ask about our specialized services, including customer/sales training, demos and calibration/certification of tools.

Web catalog
www.tnb.com/webcatalog
Search for technical information by catalog number, UPC code, competitor number, keyword search, product category and/or brand. Use the "where to buy" function to locate a T&B local distributor and/or other support services.

Web CAD library
www.tnb.com/CADLibrary
The T&B CAD library is an online source of 2D and 3D CAD models, available FREE to customers who register. This valuable tool allows CAD designers, OEMs and engineering firms to quickly locate and download T&B drawings into their projects. Over 4,000 drawings of T&B® Fittings, PMA® Cable Protection, Kindorf®, Red Dot® and Superstrut® products, as well as Steel City® and Carlon® Floor Boxes are currently available.

BIM library*
Now available to you through Autodesk® Seek (seek.autodesk.com), our BIM (building information modeling) objects can easily be imported to your Revit® models. These BIM objects are fully standards compliant, Revit® certified and completely configurable.

Vertical market solutions

—
01

—
02

—
01 Oil and gas industry
—
02 Chemical industry
—
03 Commercial and institutional facilities

Oil and gas industry
Thomas & Betts designs, manufactures and supplies technically advanced products for electrical systems. Profitable drilling, extracting, processing, transporting and dispensing operations require reliable, robust and cost-effective equipment. That's why we invest extensive amounts on R&D, training and channel management. Our solutions solve real-world problems. Thomas & Betts offers the industry's most advanced materials distribution system, and our commitment shows in our unmatched products, unequaled service and loyalty from end-users and OEMs.

Chemical industry
Thomas & Betts designs, manufactures and supplies solutions for electrical systems. In order to be profitable running special batches or continuous commodity compounds, you need reliable, robust and cost-effective equipment. Your systems need to operate at peak performance. That's why we invest considerable resources towards R&D, training and channel management. Our products solve real-world problems. Our commitment is demonstrated by our unmatched products, unequaled service and loyalty from end-users, OEMs and contractors, and we operate the industry's most advance materials distribution system.

—
03

Commercial and institutional facilities
Thomas & Betts understands the challenges faced in commercial and institutional projects and is committed to providing innovative electrical solutions that not only reduce overall project costs, but also increase safety, promote sustainability and even improve cash flow. Whether it's labor-saving rough-in components, custom-designed electrical prefabrication systems, online cloudbased design tools or even our worldclass logistics, Thomas & Betts can help bring commercial and institutional projects in on time, within budget and profitably.

—
04

—
05

—
04 Civil infrastructure
—
05 Power generation
—
06 Renewable energy

Civil infrastructure
At Thomas & Betts, we understand the challenges faced in civil infrastructure. We're focused on providing electrical solutions that address the critical issues in every transportation sector, so you can focus on sustainability, cost, quality, flexibility, safety and regulatory compliance. Our family of quality electrical solutions matches specific application criteria, ensuring the continued reliability of infrastructure. And with the industry's most efficient distribution system, we're prepared to meet your ongoing operation and maintenance needs as well as serve new OEM and construction investments.

Power generation
The power generation industry, which has performed solidly for decades, is undergoing a transformation brought on by government regulations, consumer demand and evolving industry standards. New and emerging technological developments support cleaner and more efficient energy generation and higher availability for plants young and old. Thomas & Betts is leading the way with high-quality, innovative electrical systems and devices that perform optimally with minimal product lifecycle costs. Integrated engineering design solution sets simplify product selection. Fewer, snap-together parts ease installation and maintenance. Training and support services ensure ongoing safe and reliable operation, while warranties instill confidence that our products will perform as required and meet your performance and output demands.

—
06

Renewable energy
The demand for natural, clean and sustainable energy resources has brought solar and wind power generation into the spotlight. Investments and incentives by public and private entities are speeding green development and proliferation, yet the promise is not fully realized. Thomas & Betts is committed to seeing the industry succeed – and thrive. We design integrated solutions with higher quality materials, fewer parts and ease of installation coupled with maintenance in mind in order to reduce product lifecycle costs. We provide the information and training necessary to correctly install and maintain critical structural systems for safe and reliable operation. With solutions from Thomas & Betts, you will meet your cost, quality,performance and regulatory challenges.

Vertical market solutions

—
01

—
02

—
01 Metals and mining industry
—
02 Power transmission and distribution
—
03 Water/wastewater treatment

Metals and mining industry
Thomas & Betts' long-term presence in the utility and industrial markets continues to drive the development of innovative electrical products that meet the stringent application requirements of metals and mining operations and perform over extended lifecycles. Our solutions are tailored to help you optimize operating costs and improve return on capital investments while protecting the environment and ensuring safety to workers and production assets. Our global network and fast logistics are in place to support your MRO, OEM and construction activities around the world.

Power transmission and distribution
From transmission lines and local distribution networks that crisscross the landscape to the customer premises, you'll find Thomas & Betts products to help you manage and control the constant flow of power. We understand that your customers depend on you to deliver a continuous, uninterrupted power flow, and that you rely on us to provide solutions that enable optimal reliability and efficiency. We also recognize your need to reduce the maintenance, repair and operations costs in your electric power transmission and distribution systems. Whether your systems are overhead or underground, we are your partner in power delivery. Our broad family of electrical solutions enables us to support your design, construction, operations and maintenance requirements economically, with fewer and shorter outages.

—
03

Water/wastewater treatment
At Thomas & Betts, we're focused on providing products that address the issues in every area of your wastewater treatment facility, so you can focus on cost, quality, flexibility and regulatory challenges. Our family of products matches specific application criteria from start to finish, assuring the quality and reliability of your electrical system throughout your facility, from power substation to administration buildings. With the industry's most efficient distribution system, we're also prepared to meet your ongoing MRO needs down the road.

—
04

—
05

—
04 Pulp and paper processing industry
—
05 Food and beverage processing industry
—
06 Single- and multi-family housing

Pulp and paper processing industry
At Thomas & Betts, we understand the challenges you face in the pulp and paper processing industry today. We're focused on providing electrical solutions that address the critical issues in every area of your operation, so you can focus on plant sustainability, personnel safety, cost, quality, flexibility and regulatory challenges across the production cycle. Our family of electrical solutions matches specific application criteria from start to finish inside processing areas, assuring the quality and reliability of your electrical system throughout your facility, from incoming raw materials through shipping of finished goods. And with the industry's most efficient distribution system, we're prepared to meet your ongoing MRO, OEM and construction needs today.

Food and beverage processing industry
At Thomas & Betts, we understand the challenges you face in the food and beverage processing industry today. We're focused on providing electrical solutions that address the critical issues in every area of your operation, so you can focus on plant sustainability, cost, quality, flexibility, food and personnel safety and regulatory challenges across the production cycle. Our family of electrical solutions matches specific application criteria from start to finish inside food processing areas, assuring the quality and reliability of your electrical system throughout your facility, from incoming raw materials through shipping of finished goods. And with the industry's most efficient distribution system, we're prepared to meet your ongoing MRO, OEM and construction needs down the road.

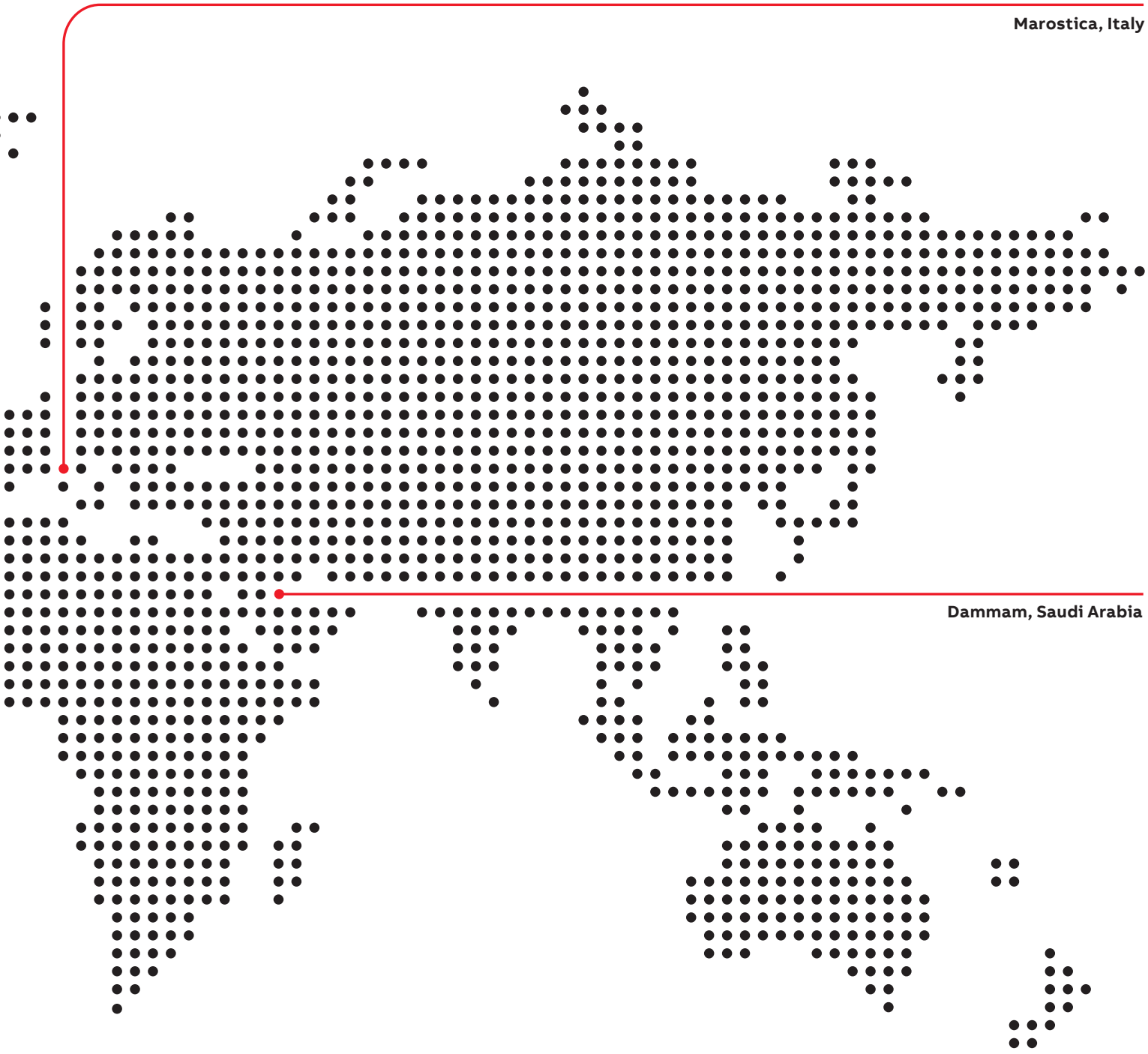
—
06

Single- and multi-family housing
At Thomas & Betts, residential construction goes beyond the simple house on the corner. From a single-family home to a multi-story apartment complex or high-rise condominium, we understand the dynamic challenges faced in the residential market and are committed to providing innovative electrical solutions that promote sustainability, reduce overall project costs and provide a safe working and living environment. Technology and regulatory evolution are driving change throughout our living areas, and Thomas & Betts is focused on providing solutions that not only solve current real-world problems, but offer the flexibility to accommodate future demands.

T&B® Cable Tray
Manufacturing facilities

T&B® Cable Tray was acquired by ABB group in 2012 and through the wider network, T&B® Cable Tray can now provide the complete solution offering with the combined expertise and experience of ABB products delivering world class solution in cable management.

With over 20 years of experience T&B® Cable Tray provides a complete solution in cable management systems including design, manufacturing and technical support by offering a complete solution for you installation.



T&B® Cable Tray
Introduction

Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable tray is more cost efficient, more reliable, more adaptable to changing needs and easier to maintain. In addition, its design does not contribute to potential safety problems associated with other wiring systems.

The benefits of cable tray
An evaluation of the costs and benefits of various wiring systems should be done in the design phase. Avoiding the system selection process, or deferring it until construction, often results in higher costs, scheduling delays and a system that will not meet future needs.

Selection of a wiring system that is not the most suitable for a particular application in terms of cost, potential corrosion and electrical considerations can lead to numerous problems, including excessive initial cost, poor design, faulty installation, extra maintenance, future power outages and unnecessary safety concerns.

Cost efficiency
Extensive experience has shown that the overall cost of a cable tray installation (including conductor, material and installation labor costs) up to 60% less than a comparable conduit wiring system.

Cable tray systems, including trays, supports, fittings and other materials, are generally less expensive than conduit wiring systems. In addition, major cost savings are generated by the relative ease of installation. Labor costs of installing a cable tray system can be up to 50% less. Total cost savings will vary with the complexity and size of the installation.

Direct cost savings are easy to calculate during the design phase of a project, but the enormous advantages of cable tray may accrue only over time. The system's reliability, adaptability, ease of maintenance and inherent safety features result in many other types of cost savings, including:

- Lower engineering and maintenance costs
- Less need to reconfigure system as needs change
- Less down time for electrical and data handling systems
- Fewer environmental problems resulting from loss of power to essential equipment

01 H-style 90° horizontal bend
02 H-style horizontal tee
03 H-style 90° vertical outside bend

01

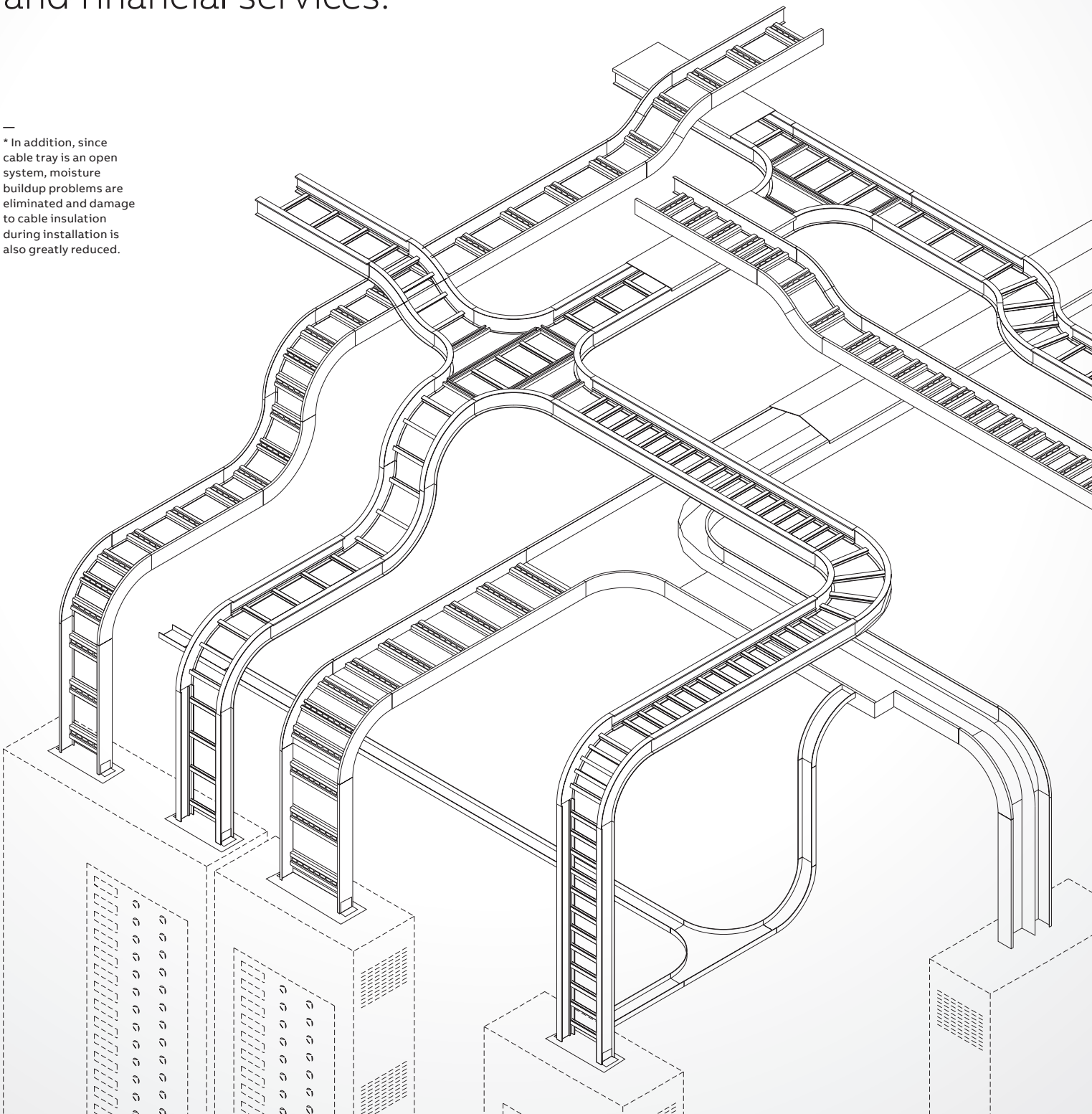
02

03

CABLE TRAY SYSTEMS

Cable tray systems offer unsurpassed reliability, resulting in less maintenance and down time – important considerations for all installations and especially for industries such as data communications and financial services.*

—
* In addition, since cable tray is an open system, moisture buildup problems are eliminated and damage to cable insulation during installation is also greatly reduced.



T&B® Cable Tray
Features & benefits

T&B cable tray offers a comprehensive range of components forming the elements of a complete cable management system.

—
01 Bureau Veritas ISO 9001:2008 certification
—
02 NEMA VE 1-2009 Certificate of compliance
—
03 UL File E16725 certifiction.

The system offered are:

- **Cable trays and cable ladders** (conforming to NEMA VE1) & IEC 61537 : 2006
- **Metal channel cable supports** conforming to BS 6946
- **Cable trunking**
- **Hot dip galvanizing** conforming to ASTM A123 & ISO 1461 : 2009

The T&B cable tray features & benefits

- I - Beam side rail for maximum structural strength.
- Snap-in splice for easy installation. Alternate rungs for top and bottom accessory installation and cable lashing.
- Continuous open slot for Rungs to accept standard strut pipe clamps that can provide complete barrier strip adjustability.
- Exclusive Ty-Rap® cable tie slots on 1" (25.4mm) centers on all ladder and ventilated bottoms. Secures cables without kinks and keeps cables uniform.
- Added support for Aluminium and Steel Solid bottoms with a flat sheet for added cable protection.
- Extra wide rung design for maximum cable bearing surface.
- Barrier strips are fully adjustable (side to side) for use in straight sections and fittings.
- UL certified to be used as an equipment grounding conductor.

—
01

BUREAU VERITAS Certification

THOMAS & BETTS SAUDI ARABIA LTD.

2nd INDUSTRIAL CITY, STREET # 75
P.O. BOX 514, Al – KHOBAR 31952, KINGDOM OF SAUDI ARABIA

Bureau Veritas Certification Holding (SAS – UK Branch certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2008

Scope of certification

MANUFACTURING, INSPECTION, TESTING & DISTRIBUTION OF CABLE TRAY AND RELATED ACCESSORIES.

Original cycle start date: 18 NOVEMBER 2010
Expiry date of previous cycle: 17 NOVEMBER 2016
Recertification Audit date: 17 OCTOBER 2016
Recertification cycle start date: 09 NOVEMBER 2016

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 14 SEPTEMBER 2018

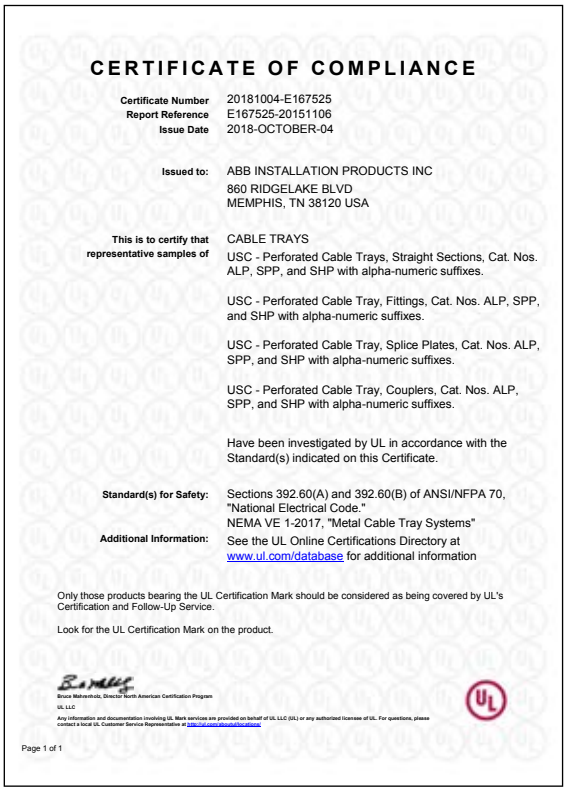
Certificate No. IND16.4191 U/Q Version : No.1 Revision date: 09 NOVEMBER 2016

UKAS

006

Page 1 of 1

—
02



CERTIFICATE OF COMPLIANCE

Certificate Number 20181004-E167525
Report Reference E167525-20151106
Issue Date 2018-OCTOBER-04

Issued to: ABB INSTALLATION PRODUCTS INC
860 RIDGELAKE BLVD
MEMPHIS, TN 38120 USA

This is to certify that representative samples of: CABLE TRAYS

USC - Perforated Cable Trays, Straight Sections, Cat. Nos. ALP, SPP, and SHP with alpha-numeric suffixes.

USC - Perforated Cable Tray, Fittings, Cat. Nos. ALP, SPP, and SHP with alpha-numeric suffixes.

USC - Perforated Cable Tray, Splice Plates, Cat. Nos. ALP, SPP, and SHP with alpha-numeric suffixes.

USC - Perforated Cable Tray, Couplers, Cat. Nos. ALP, SPP, and SHP with alpha-numeric suffixes.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: Sections 392.60(A) and 392.60(B) of ANSI/NFPA 70, "National Electrical Code."
NEMA VE 1-2017, "Metal Cable Tray Systems"

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at http://ul.com/aboutul/locations/

Page 1 of 1

T&B services
Web CAD Library www.tnb.com/CADLibrary over 4,000 2D and 3D CAD models available free!

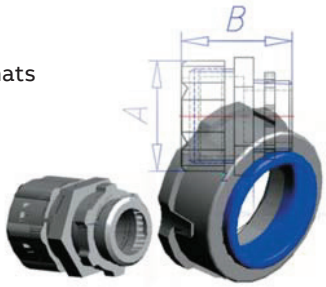
The T&B CAD library is an on-line source of 2D and 3D CAD models, available free to customers who register. Users can download these files to their desktops for import into their working drawings. Drawing are offered in ninety percentage of the most popular native file formats. This is a valuable tool for CAD designers, OEMs and engineering firms, as it will allow them to quickly locate and download T&B drawing into their projects. Over 4,000 drawings of T&B® fittings, PMA® Cable Protection, Kindort® , Red•Dot® and Superstrut® products and Steel City® and Carlon® Floor boxes and currently available, and we're continually adding more products to the library.

BIM library
Now available to you through Autodesk® Seek (seek.autodesk. com), our BIM (Building Information Modeling) objects can easily be imported to you Revit® models. These BIM objects are fully standards compliant, Revit® Certified and completely configurable.

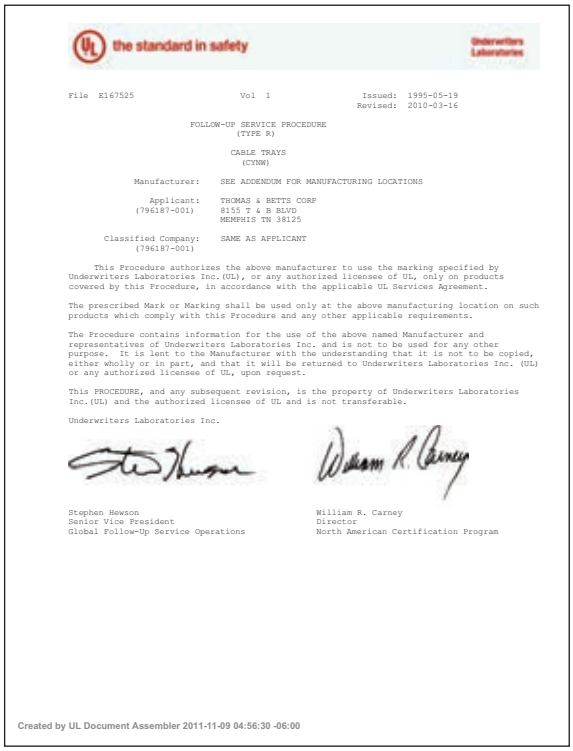
T&B CAD Library
Your source for FREE CAD file downloads.

This comprehensive source of CAD drawings has been designed to make it easier than ever to find the right components, right from the start. Drawing are offered in most popular native CAD file formats and are available for instant downloading at no cost to registered users.

Site includes:
- Help guide
- Search drawings
- Available file formats



—
03



the standard in safety

Underwriters Laboratories

File E167525 Vol 1 Issued: 1995-05-19
Revised: 2010-03-16

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

CABLE TRAYS
(CYNW)

Manufacturer: SEE ADDENDUM FOR MANUFACTURING LOCATIONS

Applicant: THOMAS & BETTS CORP
(796187-001) 8155 T & B BLVD
MEMPHIS TN 38125

Classified Company: SAME AS APPLICANT
(796187-001)

This Procedure authorizes the above manufacturer to use the marking specified by Underwriters Laboratories Inc.(UL), or any authorized licensee of UL, only on products covered by this Procedure, in accordance with the applicable UL Services Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. (UL) or any authorized licensee of UL, upon request.

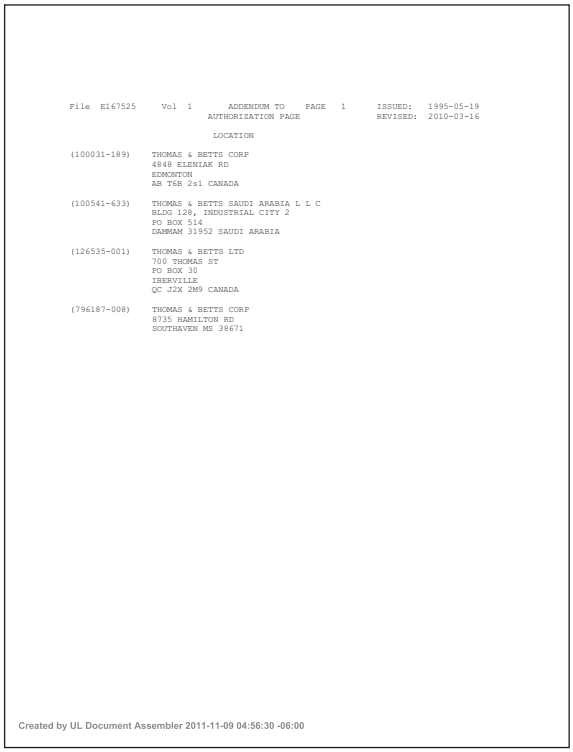
This PROCEDURE, and any subsequent revision, is the property of Underwriters Laboratories Inc.(UL) and the authorized licensee of UL and is not transferable.

Underwriters Laboratories Inc.

Stephen Hewson
Senior Vice President
Global Follow-Up Service Operations

William R. Carney
Director
North American Certification Program

Created by UL Document Assembler 2011-11-09 04:56:30 -06:00



File E167525 Vol 1 ADDENDUM TO AUTHORIZATION PAGE PAGE 1 ISSUED: 1995-05-19
REVISED: 2010-03-16

LOCATION

(100031-189) THOMAS & BETTS CORP
4848 ELENIAK RD
EDMONTON
AB T6B 2s1 CANADA

(100541-633) THOMAS & BETTS SAUDI ARABIA L L C
BLDG 128, INDUSTRIAL CITY 2
PO BOX 514
DAMMAM 31952 SAUDI ARABIA

(126535-001) THOMAS & BETTS LTD
700 THOMAS ST
PO BOX 30
IBERVILLE
QC J2X 2M9 CANADA

(796187-008) THOMAS & BETTS CORP
8735 HAMILTON RD
SOUTHAVEN MS 38671

Created by UL Document Assembler 2011-11-09 04:56:30 -06:00

T&B® Cable Tray
Adaptability

A major advantage of cable tray systems derives from their adaptability to new needs and technology. The pace of change in the economy, constantly shifting competitive pressures and rapid introduction of innovative technologies are all accelerating.

More than ever before, businesses must be prepared to quickly expand facilities, change products or introduce new processes. The flexibility of the wiring system is a key consideration.

Modifying a cable tray system or adding cables to meet new needs is relatively easy because cables can enter or exit a tray at any point, and initial design considerations can build in extra capacity as part of the planning process. Cable tray's inherent adaptability allows rewiring for future expansion, building redesign or new technologies without disruption or need to replace the entire wiring system.

Maintenance
Cable tray wiring systems require less maintenance than conduit systems. When maintenance is necessary, it is easier, less time-consuming and less labor intensive. The physical condition and status of both the cable tray and cables can be inspected visually, something that is not possible with conduit systems. In addition, it is also easy to see if there is sufficient capacity in the trays for additional cables. As noted above, changing or adding cables can also be accomplished easily.

Cable tray systems divert moisture and do not promote condensation, which limits potential corrosion and/or failure of electrical equipment. Cable tray and tray cable are also less susceptible to fire loss than conduit. An external fire usually results in damage to only a few feet of a cable tray system, while wire insulation inside a conduit may suffer significant damage or thermoplastic insulation may actually fuse to the conduit in a sustained external fire.

Safety
Cable tray systems lack the inherent safety concerns of conduit systems. Due to its open design, cable tray does not serve as a flow through for corrosive, explosive and toxic gases.

Unlike the conduit system, the cable tray system allows the installer to pull tray cables from one termination enclosure to the next before insertion and termination. This reduces the risk to the installer of exposure to energized equipment.

Finally, in installations where cable tray can be used as the equipment grounding conductor (per NEC® standards)*, it is easy to visually check the system components as well as conduct checks for electrical continuity.

—
* National Electric Code and NEC are registered trademarks of the National Fire Protection Association, Inc.

Technical information
Glossary of terms

Accessories
Devices used to supplement the function of straight sections and fittings, including such items as drop outs, covers, conduit adapters, hold-down devices and dividers.

Cable tray connector
A device that joins cable tray straight sections or fittings, or both. The basic types of connectors are:
- Rigid,
- Expansion
- Adjustable
- Reducer

Cable tray fitting
A device used to change the direction, elevation or width of a cable tray system.

Cable tray support
A device that provides adequate means for supporting cable tray sections or fittings, or both. The basic types of cable tray supports are:
- Cantilever bracket
- Trapeze
- Individual and suspension

Channel cable tray
A prefabricated metal structure consisting of a one-piece ventilated bottom or solid bottom channel section, or both, not exceeding 6" (152.4mm) in width.

Ladder cable tray
A prefabricated metal structure consisting of two longitudinal side rails connected by individual transverse members.

Solid bottom cable tray
A prefabricated metal structure consisting of a bottom with no openings within integral or separate longitudinal side rails.

One-piece/unit cable tray
A prefabricated metal structure consisting of a one-piece solid or ventilated bottom.

Horizontal cross
A cable tray fitting suitable for joining cable trays in four directions at 90° intervals in the same plane.

Horizontal bend
A cable tray fitting that changes the direction in the same plane.

Horizontal tee
A cable tray fitting suitable for joining cable trays in three directions at 90° intervals in the same plane.

Metallic cable tray system
A metallic assembly of cable tray straight sections, fittings and accessories that forms a rigid structural system to support cables.

Reducer
A cable tray fitting suitable for joining cable trays of different widths in the same plane. A straight reducer has two symmetrical offset sides.
A right-hand reducer, when viewed from the large end, has a straight side on the right. A left-hand reducer, when viewed from the large end, has a straight side on the left.

Straight section
A length of cable tray that has no change in direction or size.

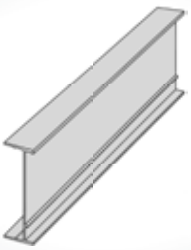
Ventilated bottom
A cable tray bottom having openings sufficient for the passage of air and utilizing 75% or less of the plane area of the surface to support cables.

Vertical bend
A cable tray fitting that changes direction to a different plane. An inside vertical elbow changes direction upward from the horizontal plane.
An outside vertical elbow changes direction downward from the horizontal plane.

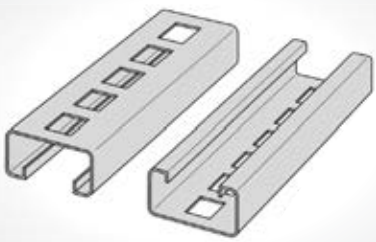
Technical information
Unique design features

—
01 **I-beam side rail (aluminum)**
Maximum structural strength.
—
02 **Alternating rungs (aluminum and steel)**
Alternating rungs for top and bottom accessory installation and cable lashing.
—
03 **Ty-Rap® cable tie slots (aluminum and steel)**
Exclusive Ty-Rap® cable tie slots 1" center to center on all ladder ventilated and solid bottoms. Secure cables without kinks and keeps cables uniform.
—
04 **Extra-wide rung design (aluminum and steel)**
Extra-wide rung design for maximum cable-bearing surface.
—
05 **Snap-in splice plates (aluminum)**
Snap-in aluminum splice plates for easy installation.
—
06 **Continuous open slot (aluminum and steel)**
Rungs have continuous open slot to accept standard strut pipe clamps and provide complete barrier strip adjustability.
—
07 **Added support (aluminum and steel)**
Aluminum and steel solid bottoms are constructed with a flat sheet for added cable protection.
—
08 **Adjustable barrier strips (aluminum and steel)**
Barrier strips are fully adjustable (side to side) for use in straight sections and fittings.

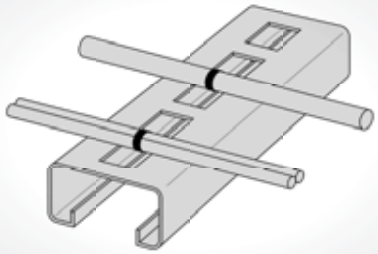
—
01



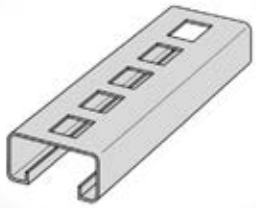
—
02



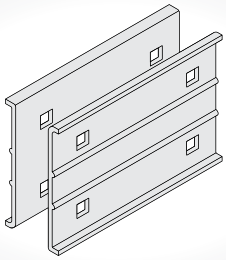
—
03



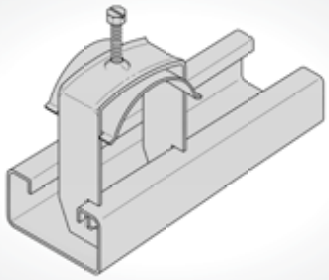
—
04



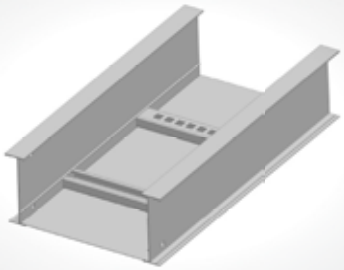
—
05



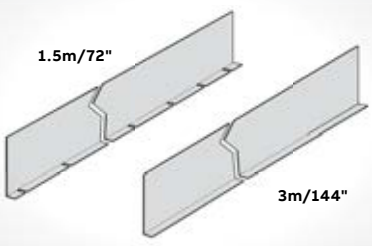
—
06



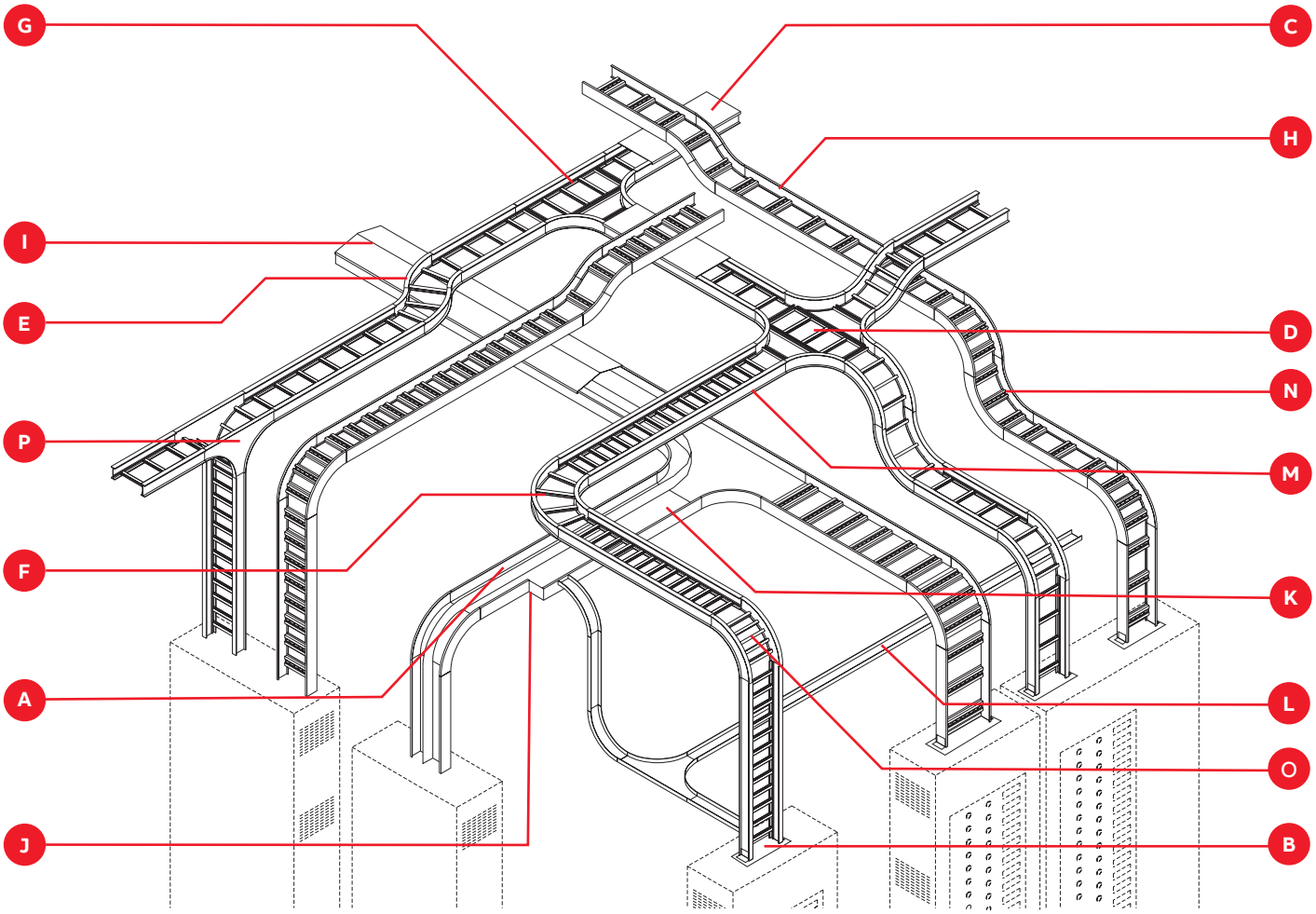
—
07



—
08



Technical information
Sample plant layout



Application

- Commercial
- Schools
- Hospitals
- Office buildings
- Airports
- Casinos
- Stadiums
- Industrial
- Petrochemical plants
- Automotive plants
- Paper plants
- Food processing
- Power plants
- Refineries
- Manufacturing
- Mining

Legend

A - Barrier strip
B - Box connector
C - Flat cover
D - Horizontal cross
E - Horizontal 45˚
F - Horizontal 90˚
G - Horizontal tee
H - Ladder tray
I - Peaked cover
J - Right reducer
K - Solid tray
L - Solid channel tray
M - Ventilated tray
N - Vertical 90˚ inside
O - Vertical 90˚ outside
P - Vertical tee

Technical information
Selection process

A number of basic decisions must be made before a cable tray system can be specified. Thomas & Betts has developed a simple nine-step process to guide you in the process:

NOTE: Please see the cable tray quote specification requirements on the following page.

1. Select material and finish **(see pages 24-29)**
2. Select the tray class / load capacity (loading) **(see pages 30-38)**
3. Select the tray type **(see pages 39)**
4. Select the tray size **(see page 40)**
5. Cable tray selection **(see pages 41-43)**
6. Select the fittings **(see page 44)**
7. Consider deflection **(see page 45)**
8. Consider thermal expansion and contraction **(see page 48)**
9. Electrical grounding capacity **(see page 49)**

Each step is described in detail in the following pages. For many applications, however, you may also have to take the following into account:

- **Weight of the installation**, which affects the cost of the support structure and the ease of installation.
- **Corrosion resistance of the material** is one of the most important selection criteria. Cable tray materials may not respond the same way in different environments. Chemicals or combinations of chemicals have a corrosive effect on some materials that can be compounded by temperature or even the speed at which the corrosive elements contact the cable tray. For example, some grades of stainless steel may be resistant to salt water at high flow rates (perfect for heat exchangers), while exhibiting some corrosion pitting in standing salt water. Only the designer can quantify the various elements that affect the corrosion resistance of the cable tray system in a specific application. While Thomas & Betts can provide guidance, the designer is responsible for the final selection. For more information, see “Corrosion” section (see page 26).
- **Melting point and flammability rating** are primarily concerns for nonmetallic tray. Local building codes may restrict the use of a given product if certain performance levels are not met. Check with the appropriate inspection authorities before specifying the product.
- **Relative cost** varies dramatically, including material costs that float with the commodity index. For example, stainless steel prices may vary significantly according to daily changes in the market.

Technical information

Cable tray quote specification requirements

1) Type of material/finish:

Aluminum:
AH - H style
AU (fittings only) - U style

Steel:
SP - Pregalvanized
SH - Hot-dipped
SS - 316 Stainless
NM - Fiberglass

Application:

☐ Interior ☐ Exterior ☐ Combined

2) NEMA class of the tray:

8A 8B 12A 12B 12C 16A 16B 16C 20A 20B 20C

3) If specified NEMA class rating is not known, please answer the following two questions:

a) How many pounds per foot does the cable tray need to support?

_____

_____

b) How often is the tray supported?

Both the "pounds per foot" and "how often the tray is supported" must be filled out if the NEMA class is unknown.

_____

_____

4) Siderail height:

The side rail height is defined as the outside height of the tray. The load depth is the internal dimension of the tray.

Aluminum:
4" (101.6mm)
5" (127mm)
6" (152.4mm)
7" (177.8mm)
8" (203.2mm)*

All steel:
3⅝" (92.1mm)
4" (101.6mm)
5" (127mm)
6" (152.4mm)
7" (177.8mm)

5) Width of tray:

Available widths:
6" (152.4mm)
9" (228.6mm)
12" (304.8mm)
18" (457.2mm)
24" (609.6mm)
30" (762mm)
36" (914.4mm)
42" (1,0066.8mm)*

6) Bottom style of tray: If ladder, rung spacing:

Ladder
Solid
Ventilated

6" (152.4mm)
9" (228.6mm)
12" (304.8mm)
18" (457.2mm)

7) Length of tray:

Aluminum:
120" or 10 ft (3.04m)
144" or 12 ft (3.66m)
240" or 20 ft (6.10m)
288" or 24 ft (7.32m)
360" or 30 ft (9.14m)*

Steel:
20" or 10 ft (0.5m)
144" or 12 ft (3.66m)
240" or 20 ft (6.10m)
288" or 24 ft (7.32m)

8) Fitting type:

HB - Horizontal bend
HT - Horizontal tee
HX - Horizontal cross
HYL - Horizontal wye left
HYR - Horizontal wye right
RT - Horizontal reducing tee
ET - Horizontal expanding tee
EX - Horizontal expanding cross
HLR - Horizontal left-hand reducer
HSR - Horizontal straight reducer
HRR - Horizontal right-hand reducer
CS - Cable support fitting
VI - Vertical inside bend
VO - Vertical outside bend
VTU - Vertical tee up
VTD - Vertical tee dow

9) Radius of fitting:

12" (304.8mm)
24" (609.6mm)
36" (914.4mm)
48" (1,219.2mm)

Accessories:

☐ Stainless steel hardware ☐ Marine rungs ☐ Dividers

10) If covers are needed, ask for the type of cover:

SFC - solid flanged cover
SNC - solid non-flanged cover
VFC - ventilated flanged cover
PFC - peaked flanged cover (peaked covers available for some fittings)

11) Clarify any additional accessories needed.

Each section of tray and each fitting comes with one pair of splice plates and hardware, two pairs for tees, three pairs for crosses.

* Select series only

Selection process
1. Select material and finish

The most suitable material and finish for your application will depend on cost, the potential for corrosion and electrical considerations. Thomas & Betts offers cable tray systems fabricated from corrosion-resistant steel, stainless steel and aluminum alloys along with corrosionresistant finishes, including zinc and epoxy. Special paint is also available.

Materials

Most cable tray systems are fabricated from a corrosion-resistant metal (stainless steel or an aluminum alloy) or from a metal with a corrosion-resistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost.

Aluminum
Cable trays fabricated of extruded aluminum are often used for their high strength-to-weight ratio, superior resistance to certain corrosive environments and ease of installation. They also offer the advantages of being light in weight (approximately less than 50% that of a steel tray) and maintenance free, and since aluminum cable trays are non-magnetic, electrical losses are reduced to a minimum.

T&B® Cable Tray products are formed from the 6063 series alloys, which by design are copper-free alloys for marine applications. These alloys contain silicon and magnesium in appropriate proportions to form magnesium silicide, allowing them to be heat treated. These magnesium silicon alloys possess good formability and structural properties, as well as excellent corrosion resistance.

The unusual resistance to corrosion, including weathering, exhibited by aluminum is due to the self-healing aluminum oxide film that protects the surface. Aluminum's resistance to chemicals in the application environment should be tested before installation.

Steel
Thomas & Betts steel cable trays are fabricated from structural quality steels using a continuous roll-formed process. Forming and extrusions increase the mechanical strength.

The main benefits of steel cable tray are its high strength and low cost.

The rate of corrosion will vary depending on many factors, such as the environment, coating or protection applied and the composition of the steel. Thomas & Betts offers finishes and coatings to improve the corrosion resistance of steel. These include pregalvanized, hot-dip galvanized (after fabrication), epoxy and special paints.

Stainless steel
Stainless steel offers both high yield strength and high creep strength, at high ambient temperatures.

Thomas & Betts stainless steel cable tray is roll-formed from AISI Type 316/316L stainless steel.

Stainless steel is resistant to dyestuffs, organic chemicals and inorganic chemicals at elevated temperatures. Higher levels of chromium and nickel and a reduced level of carbon serve to increase corrosion resistance and facilitate welding. Type 316 includes molybdenum to increase high temperature strength and improve corrosion resistance, especially to chloride and sulfuric acid.

Finishes

Electrogalvanized coatings
The most widely used coating for cable tray is galvanizing. It is cost-effective, protects against a wide variety of environmental chemicals,and is self-healing if an area becomes unprotected through cuts or scratches.

Steel is coated with zinc through electrolysis by dipping steel into a bath of zinc salts. A combination of carbonates, hydroxides and zinc oxides forms a protective film to protect the zinc itself. Resistance to corrosion is directly related to the thickness of the coating and the harshness of the environment.

Pregalvanized
Pregalvanized, also known as mill-galvanized or hot-dip mill galvanized, is produced in a rolling mill by passing steel coils through molten zinc. These coils are then slit to size and fabricated.

Areas not normally coated during fabrication, such as cuts and welds, are protected by neighboring zinc, which works as a sacrificial anode. During welding, a small area directly affected by heat is also left bare, but the same self-healing process occurs.

G90 requires a coating of .90 ounces (25.5g) of zinc per square foot of steel, or .32 ounces (9g) per square foot on each side of the metal sheet. In accordance with A653/A653M-06a, pregalvanized steel is not generally recommended for outdoor use or in industrial environments.

Hot-dipped galvanized
After the steel cable tray has been manufactured and assembled, the entire tray is immersed in a bath of molten zinc, resulting in a coating of all surfaces, as well as all edges, holes and welds.

Coating thickness is determined by the length of time each part is immersed in the bath and the speed of removal. Hot-dip galvanizing after fabrication creates a much thicker coating than the pregalvanized and electrogalvanized process, a minimum of 3.0 ounces (85g) per square foot of steel or 1.50 ounces (42.5g) per square foot on each side of the sheet (according to ASTMA123, grade 65).

The process is recommended for cable tray used in most outdoor environments and many harsh industrial environment applications.

Other coatings
Epoxy and special paint coatings are available on request.

Corrosion of metal occurs naturally when the metal is exposed to chemical or electrochemical attack. The atoms on the exposed surface of the metal come into contact with a substance, leading to deterioration of the metal through a chemical or electrochemical reaction. The corroding medium can be a liquid, gas or solid.

Although all metals are susceptible to corrosion, they corrode in different ways and at various speeds. Pure aluminum, bronze, brass, most stainless steels and zinc corrode relatively slowly, but some aluminum alloys, structural grades of iron and steel and the 400 series of stainless steels corrode quickly unless protected.

Electrochemical corrosion
Electrochemical corrosion is caused by an electrical current flow between two dissimilar metals, or if a difference of potential exists, between two areas of the same metal surface.

The energy flow occurs only in the presence of an electrolyte, a moist conductor that contains ions, which carry an electric charge. Solutions of acids, alkalies and salts contain ions, making water – especially salt water – an excellent electrolyte.

Common types of corrosion

Galvanic corrosion
Galvanic corrosion results from the electrochemical reaction that occurs in the presence of an electrolyte when two dissimilar metals are in contact. The strength of the reaction and the extent of the corrosion depend on a number of factors, including the conductivity of the electrolyte and potential difference of the metals. The metal with less resistance becomes anodic and more subject to corrosion, while the more resistant becomes cathodic.

The Galvanic Series Table, developed through laboratory tests on industrial metal alloys in sea water (a powerful electrolyte), lists metals according to their relative resistance to galvanic corrosion. Those less resistant to galvanic corrosion (anodic) are at the top, and those more resistant (cathodic) are at the bottom.

The metals grouped together are subject to only slight galvanic effect when in contact, and metals at the top will suffer galvanic corrosion when in contact with metals at the bottom (in the presence of an electrolyte). The farther apart two metals are on the table, the greater the potential corrosion.

Galvanic series table

Anodic end			
1.	Magnesium	23.	Type 410 stainless steel (passive)
2.	Magnesium alloys	24.	Type 316 stainless steel (passive)
3.	Zinc	25.	50Pb-50Sn solder
4.	Galvanized steel	26.	Silver (passive)
5.	Naval brass (C46400)	27.	Type 304 stainless steel (active)
6.	Aluminum 5052H	28.	Type 316 stainless steel (active)
7.	Aluminum 3004	29.	Lead
8.	Aluminum 3003	30.	Tin
9.	Aluminum 1100	31.	Muntz metal (C28000)
10.	Aluminum 6053	32.	Manganese bronze (C67500)
11.	Alclad aluminum alloys	33.	Nickel (active)
12.	Aluminum bronze (C61400)	34.	Inconel (active)
13.	Cadmium	35.	Cartridge brass (C26000)
14.	Copper (C11000)	36.	Admiralty metal (C44300)
15.	Aluminum 2017	37.	Red brass (C23000)
16.	Aluminum 2024	38.	Silicon bronze (C 65100)
17.	Low-carbon steel	39.	Copper nickel, 30% (C71500)
18.	Wrought iron	40.	Nickel (passive)
19.	Cast iron	41.	Inconel (passive)
20.	Monel	42.	Gold
21.	Ni-resist	43.	Platinum
22.	Type 304 stainless steel (passive)		**Cathodic end**

Pitting Corrosion
Pitting corrosion is localized and is identified by a cavity with a depth equal to or greater than the cavity's surface diameter. Pits may have different sizes and depths and most often appear randomly distributed. Aluminum and stainless steels in chloride environments are especially susceptible to pitting.

Pitting begins when surface defects, foreign particles or other variations in the metal lead to fixation of anodic (corroded) and cathodic (protected) sites on the metal surface. Acidic metal chlorides, which form and accumulate in the pit as a result of anodes attracting chloride ions, accelerate the pitting process over time. The nature of pitting often makes it difficult to estimate the amount of damage.

Crevice Corrosion
Crevice corrosion is a specialized form of pitting that particularly attacks metals or alloys protected by oxide films or passive layers. It results from a relative lack of oxygen in a crevice, with the metal in the crevice becoming anodic to the metal outside. For the crevice to corrode, it must be large enough to admit the electrolyte, but small enough to suffer oxygen depletion.

Erosion Corrosion
While erosion is a purely mechanical process, erosion corrosion combines mechanical erosion with chemical or electrochemical reaction.
The process is accelerated by the generally rapid flow of liquid or gas over an eroded metal surface, removing dissolved ions and solid particles.
As a result, the metal surface develops grooves, gullies, waves, rounded holes and valleys.

Erosion corrosion can damage most metals, especially soft ones like aluminum that are susceptible to mechanical wear, and those that depend for protection on a passive surface film, which can be eroded. Resulting damage can also be enhanced by particles or gas bubbles in a suspended state.

Intergranular Corrosion
Intergranular corrosion occurs between the crystals (or grains) that formed when the metal solidified. The composition of the areas between the crystals differs from that of the crystals themselves, and these boundary areas can become subject to intergranular corrosion. Weld areas of austenitic stainless steels are often affected by this form of corrosion, and the heat-treatable aluminum alloys are also susceptible.

Corrosion resistance guide

The following table has been compiled as a guide for selecting appropriate cable trays for various industrial environments. The information can only be used as a guide because corrosion processes are dictated by the unique circumstances of any particular assembly.

Corrosion is significantly affected by trace impurities, which at times can become concentrated through wet/dry cycles in locations that are prone to condensation and evaporation. It is not uncommon to find aggressive mists created from contaminant species, notably from sulfur or halogen sources.

Temperature greatly influences corrosion, sometimes increasing the rate of metal loss, (a rule-of-thumb guide is that a 30°C change in temperature results in a 10X change in corrosion rate). Sometimes corrosion attack slows down at higher temperatures because oxygen levels in aqueous solutions are lowered as temperatures increase. If an environment completely dries out, then there can be no corrosion.

Stress-associated corrosion might occur when assemblies are poorly installed and/or fabricated, e.g. on-site welding or mechanical fastening. Premature failure can result from: corrosion fatigue, which can occur in any environment; stress corrosion cracking, which occurs in the presence of a specific chemical when the metal is under a tensile stress, which may be residual or applied, (e.g. from poor fabrication or welding); fretting, where two adjacent surfaces (under load) are subjected to an oscillatory motion across the mating surfaces.

Design should minimize the risk of stress concentrations within a structure. Examples include sharp profiles, abrupt section changes and threaded screws. These measures are particularly important for metals that are prone to stress corrosion cracking in specific media. Design plays a significant role in exacerbating corrosion. Non-draining locations create liquid traps; local metal-to-metal (or metal-to-nonmetal) contact points (e.g. mechanical assembly bolts with washers or spacers) permit crevice corrosion and/or galvanic corrosion to occur.

Areas that are poorly maintained (e.g. surfaces are not regularly or properly washed and stubborn deposits remain on the metal surface) are particularly prone to localized corrosion damage due to different levels of oxygen under and adjacent to the location in question (differential aeration). Resulting damage from these situations is in the form of small holes (pits). In each of the examples just quoted, oxygen supply is restricted. Thus, metals (e.g. aluminum, stainless steels, zinc) that rely on oxygen to form corrosion-protective films (oxides, hydroxides, carbonates, etc.) may be prone to localized pitting and/or crevice corrosion.

A further example of localized corrosion occurs when dissimilar metals contact each other in the presence of a corrodent, i.e. galvanic corrosion. Each metal will corrode, but the one that is most active [anodic] can be more corroded, especially when there is a large surrounding area of the less active [cathodic] metal. It is wise to avoid small anodic areas. Some examples include: steel bolts (small area of anodic metal) in stainless steel plate, (large area of cathodic metal); steel bolts in copper plate – the steel corrodes. There can be environmental influences, for example, a fluid that contains active metallic species, like copper ion, contacts with aluminum (copper picked up from aqueous solutions conveyed in copper pipe) – the aluminum corrodes. A further dramatic example is provided when trace quantities of mercury contact aluminum – the aluminum corrodes very rapidly. These are examples of deposit corrosion.

Technical information

Corrosion resistance guide

This guide provides an indication of the suitability of a potential candidate material for a specific chemical environment. These tables should be regarded only as a GUIDE to anticipated performance because of possible contributions from temperature, pollutant (contaminant) species, etc.

Corrosion resistance guide

Chemical species	Aluminum	HDG/Steel	316SS
Acetaldehyde	++	+	++
Acetic acid – aerated	(+)[T,C]	X	(++)[T]
Acetone	++	++	++
Acetylene	++	nd	++
Allyl alcohol	+	nd	++
Aluminum chloride – dry	+	nd	(+)[T,P]
Aluminum chloride – wet	X	X	(–)[P]
Aluminum sulfate – satd.	X	nd	+
Ammonia – anhydrous	++	++	++
Ammonia – gas	–	+	(+)[T]
Ammonium acetate	+	nd	+
Ammonium bicarbonate	–	nd	(+)[T]
Ammonium carbonate – satd.	+	X	+
Ammonium chloride – 28%	X	X	(+)[P,S]
Ammonium chloride – 50%	X	X	X
Ammonium hydroxide	+	+	(++)[C]
Ammonium nitrate	+	X	(++)[S]
Ammonium phosphate – 40%	X	nd	+
Ammonium sulfate – to 30%	X	–	+
Amyl acetate	++	++	++
Asphalt	++	+	+
Beer	++	X	++
Benzene (benzol)	++	+	(+)[P]
Benzoic acid	+	nd	+
Benzol – see benzene	–	–	–
Boric acid (boracic acid)	++	nd	(++)[T,P]
Bromine – wet	X	X	X
Butadiene (butylene)	+	+	+
Butyl alcohol (butanol)	++	++	++
Butyric acid	+	X	+
Cadmium sulfate	+	nd	++
Calcium carbonate	–	nd	+
Calcium chloride – satd.	+	X	(+)[S]
Calcium hydroxide – satd.	X	nd	+
Calcium hypochlorite – satd.	X	X	(–)[P]
Carbon dioxide – wet	++	+	+
Carbon disulfide (bisulfide)	++	+	++
Carbon tetrachloride	X	+	(++)[P,S]
Carbolic acid – see phenol	–	–	–
Carbonic acid – see carbon dioxide	–	–	–
Caustic potash – see potassium hydroxide	–	–	–
Caustic soda – see sodium hydroxide	–	–	–
Chlorine gas – wet	X	++	(–)[P,S]
Chloroform	(+)dry	+	(++)[T,S]

Chemical species	Aluminum	HDG/Steel	316SS
Chromic acid	+	nd	(+)[P]
Citric acid – dilute	(+)[T,C]	X	(++)[P]
Copper chloride	X	X	(–)[P]
Copper nitrate	X	nd	++
Copper sulfate	X	–	+
Cresol	+	+	+
Crude oil	++	++	++
Diethylamine	+	++	++
Dimethyl ketone – see acetone	–	–	–
Ethyl acetate	(++)dry	++	+
Ethyl alcohol (ethanol)	++	++	++
Ethylene dichloride	(–)dry	++	(+)[P,S]
Ethylene glycol (glycol)	++	++	++
Ferric chloride	X	X	X
Ferric nitrate – 10%	X	nd	+
Ferrous sulfate	+	nd	(+)[P]
Formaldehyde (methanal)	(+)[P]	++	(++)[T,C]
Fluorine gas – moist	X	X	X
Formalin – see formaldehyde	–	–	–
Formic acid (methanoic acid) – 10%	(+)[T]	X	(+)[P,C]
Furfural (furfuraldehyde)	+	nd	+
Furol – see furfural	–	–	–
Gelatin	++	+	++
Glycerine (glycerol)	++	++	++
Hexamine – 80%	++	nd	++
Hydrobromic acid	X	X	X
Hydrochloric acid (muriatic acid)	X	X	X
Hydrocyanic acid – dilute	+	nd	+
Hydrocyanic acid – conc.	X	nd	+
Hydrofluoric acid	X	X	X
Hydrogen chloride gas – dry	X	X	(++)[S]
Hydrogen chloride gas – wet	X	X	+
Hydrogen fluoride	(–)[T]	nd	+
Hydrogen peroxide – to 40%	++	nd	+
Hydrogen sulfide – wet	(+)[P]	nd	(+)[P,S]
Hypo – see sodium thiosulfate	–	–	–
Hypochlorous acid – see carbon dioxide	X	X	X
Iodine solution – satd.	X	X	X
Lactic acid	(+)[T]	nd	(+)[P,I]
Latex dioxide	++	–	++
Lithium chloride – to 30%	X	nd	++
Linseed oil	+	nd	++
Magnesium chloride – 50%	X	X	(+)[P,S]
Magnesium hydroxide	+	nd	++

—

Corrosion resistance guide

Chemical species	Aluminum	HDG/Steel	316SS
Magnesium sulfate	+	X	+
Maleic acid (maleinic acid) – 20%	+	nd	+
Methyl alcohol (methanol)	++	++	++
Methyl ethyl ketone	+	++	+
Milk	++	X	++
Molasses	+	nd	++
Naptha	+	+	+
Natural fats	++	++	++
Nickel chloride	X	nd	(+)^{P,S}
Nickel sulfate	X	nd	+
Nitric acid	X	X	(++)^{I}
Oleic acid	(++)^{T}	nd	++
Oxalic acid – dilute	–	nd	+
Oxalic acid – saturated	(+)^{T}	X	X
Paraformaldehyde – to 30%	+	nd	++
Perchloroethylene	+	nd	(++)^{P}
Phenol (carbolic acid)	+	nd	++
Phosphoric acid – dilute	X	X	++
Phosphoric acid – 50%	X	X	(++)^{I}
Picric acid	++	nd	+
Potassium bicarbonate – 30%	X	nd	++
Potassium carbonate	X	nd	++
Potassium chloride – to 25%	x	X	(++)^{P}
Potassium dichromate – 30%	(++)^{T}	X	++
Potassium hydroxide	X	nd	(+)^{S}
Potassium nitrate	++	++	+
Potassium sulfate	++	++	++
Propionic acid (propanoic acid)	(+)^{T}	X	(+)^{T}
Propyl alcohol (propane)	++	++	++
Prussic acid – see hydrocyanic acid	–	–	–
Pyridine	+	nd	++
Soaps	+	–	+
Sodium bicarbonate – 20%	+	nd	++
Sodium bisulfate	X	X	(+)^{T}
Sodium bisulfite	X	X	+
Sodium chloride – to 30%	X	X	(+)^{P,S}
Sodium cyanide	X	nd	(+)^{T}
Sodium hydroxide – 10-30%	X	X	(+)^{S}
Sodium hydroxide – 50%	X	X	(++)^{S}
Sodium hydroxide – conc. dioxide	X	X	++
Sodium hypochlorite – conc. hydroxide	X	+	(–)^{P,S}
Sodium nitrate	++	X	++
Sodium peroxide – 10%	+	nd	+
Sodium silicate	++	nd	++
Sodium sulfate	(++)30%	X	++
Sodium sulfide – to 50%	X	nd	(+)^{T}
Sodium thiosulfate	+	nd	+
Steam	(+)^{P}	++	++
Stearic acid	+	nd	++
Sorbital (hexahydric alcohol)	++	+	++
Sulfur dioxide – dry	+	+	++
Sulfur dioxide – wet	X	X	(+)^{T}
Sulfuric acid – to 80%	X	X	X
Sulfuric acid – 80-90%	X	X	(-)^{I}
Sulfuric acid – 98%	X	X	(+)^{I}
Tannic acid (tannin)	X	X	+
Tartaric acid – to 50%	(+)^{T}	nd	++
Toluene (Toluol; methyl benzene)	++	++	++
Trichloroethylene	(++)^{T}	+	(+)^{P}
Turpentine	+	++	++
Water – acid, mine	X	–	(++)^{P}
Water – potable	+	+	++
Water – sea	+	+	++
Zinc chloride – dilute	++	nd	(++)^{P,S}

Symbols:

++ First choice; very low corrosion rate, typically <5 mpy, or <0.005 inch/year, (1 mil = 1/1000 inch)

+ good choice; low corrosion rate, typically <20 mpy, or <0.02 ipy

– Can use; corrosion rate up to 50 mpy (0.05 ipy); some limitations may apply

x Not recommended

(–) Brackets indicate probable limitations, e.g., at higher temperatures, [symbol "T"]; at higher concentrations, [symbol "C"]; due to pitting, [symbol "P"]; due to local grain boundary attack in the metal – intergranular corrosion, [symbol "I"]; or, due to stress corrosion cracking, [symbol "S"]

nd No available data* All tray sections will support an addtional 200 lb. concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Selection process

2. Select the tray class/load capacity (loading)

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with Table 1.

Selection process

Please note the load ratings in Table 1 are those most commonly used. Other load ratings are acceptable. (according to NEMA VE-1/CSA C22.2 No 126.1-02).

Costs vary between different load classes. Since labor and coupling costs are similar for a given length of tray, the heavier classes are less cost-effective on a load length basis. The designer should therefore specify the lightest class of tray compatible with the weight requirements of the cable tray.

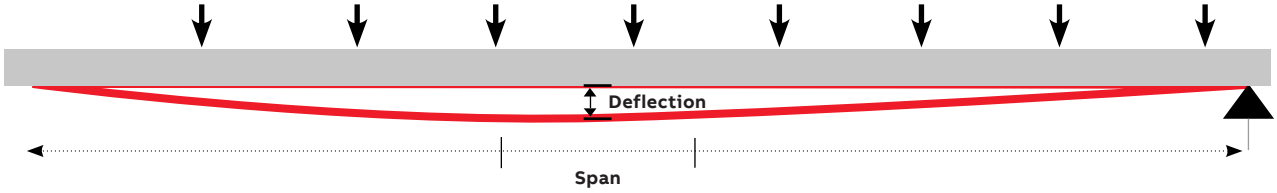
Table 1 – Span/load class designation – USA

Load		Span m (ft)				
kg/m	(lb/ft)	1.5 (5)	2.4 (8)	3.0 (10)	3.7 (12)	6.0 (20)
37	(25)	5AA	8AA	10AA	12AA	20AA
74	(50)	5A	8A	10A	12A	20A
112	(75)	–	8B	–	12B	20B
149	(100)	–	8C	–	12C	20C

NOTE: These ratings are also used in Mexico.

Table 1 – Span/load class designation – CANADA

Load		Span m (ft)						
kg/m	(lb/ft)	1.5 (5)	2.0 (6.5)	2.5 (8.2)	3.0 (10)	4.0 (13)	5.0 (16.4)	6.0 (20)
37	(25)	–	–	–	A	–	–	–
45	(30)	–	–	A	–	–	–	–
62	(42)	–	A	–	–	–	–	–
67	(45)	–	–	–	–	–	–	D
82	(55)	–	–	–	–	–	D	–
97	(65)	–	–	–	C	–	–	–
99	(67)	A	–	–	–	–	–	–
112	(75)	–	–	–	–	–	–	E
113	(76)	–	–	–	–	D	–	–
119	(80)	–	–	C	–	–	–	–
137	(92)	–	–	–	–	–	E	–
164	(110)	–	C	–	–	–	–	–
179	(120)	–	–	–	D	–	–	–
189	(127)	–	–	–	–	E	–	–
259	(174)	C	–	–			–	–
299	(200)	–	–	–	E	–	–	–



Cable loads
The cable load is the total weight, expressed in (kg/m), of all the cables that will be placed in the cable tray.

Snow loads
The additional design load from snowfall should be determined using the building codes that apply for each installation.

Ice loads
The additional load design due to the ice is determined by the following formula:

$$Wi = W \times Ti \times Di/144$$

Where:
Wi = ice load (lb/ft)
W = width of the tray (inches)
Ti = maximum ice thickness (inches)
Di = 57 lb/ft³ – ice density

$$Wi = W \times Ti \times Di/10^6$$

Where:
Wi = ice load (kg/m)
W = width of the tray (mm)
Ti = maximum ice thickness (mm)
Di = 913 kg/m³ – ice density

Ice thickness will vary depending on installation location. A value of ½" (12.7mm) can be used as a conservative standard.

If cable tray installation height exceeds 60 ft (18m) above ground and when extreme ice with concurrent wind loading weather condition exists, Ice thickness needs to be determined according to NESC Section 250D.

Wind loads
The additional loading to be considered is the effect of the impact pressure normal to the side rail. This loading is determined by the following formula:

$$Wp = 0.00256 \times V2 \times H/12$$

Where:
Wp = loading due to the wind (lb)
V = wind velocity (mph)
H = height of the side rail (inches)

It is important to note that cable tray is not designed to support personnel. The user should display appropriate warnings to prevent the use of cable tray as walkways.

Concentrated loads

A concentrated static load is not included in Table 1. Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (We) in kilograms/meter (pounds), using the following formula, and added to the static weight of cable in the tray:

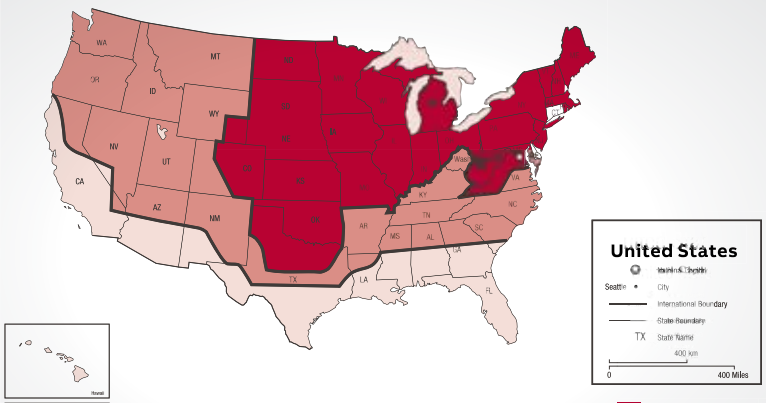
$$We = \frac{2 \times (\text{concentrated static load, kg (lb.)})}{\text{Span length, m (ft.)}}$$

Seismic loads

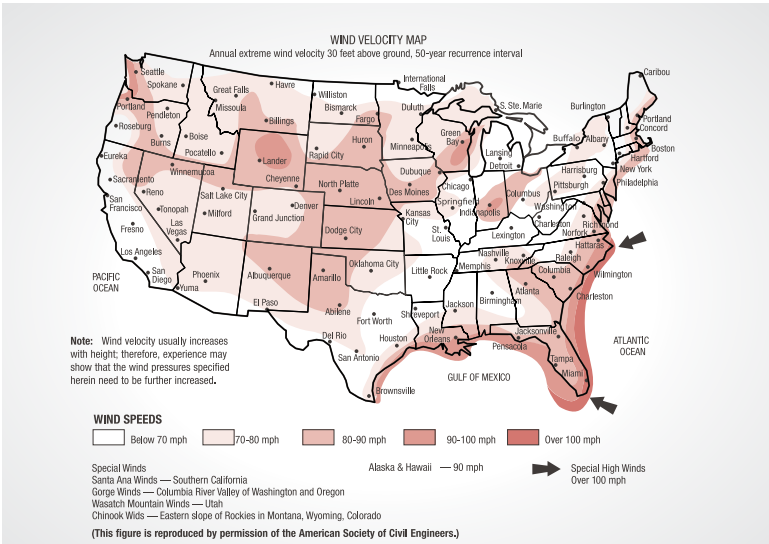
It is now known that cable tray systems can withstand stronger earthquakes than previously thought. The tray itself and the support material are highly ductile, and the cables moving within the tray tend to dissipate energy. However, if you have specific seismic specifications for selected cable tray, please consult Thomas & Betts to ensure your specifications are met.

Ice and wind loading maps

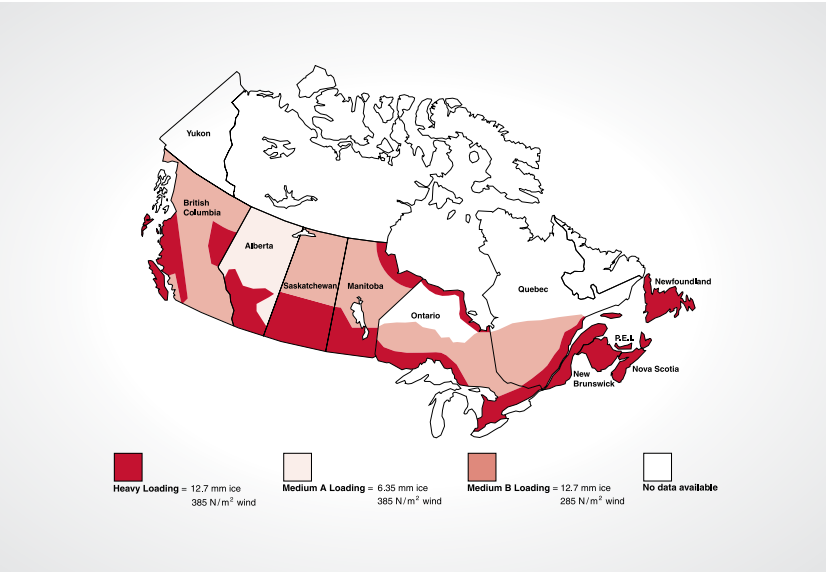
Loading for Grades B, C and D - USA / Canada



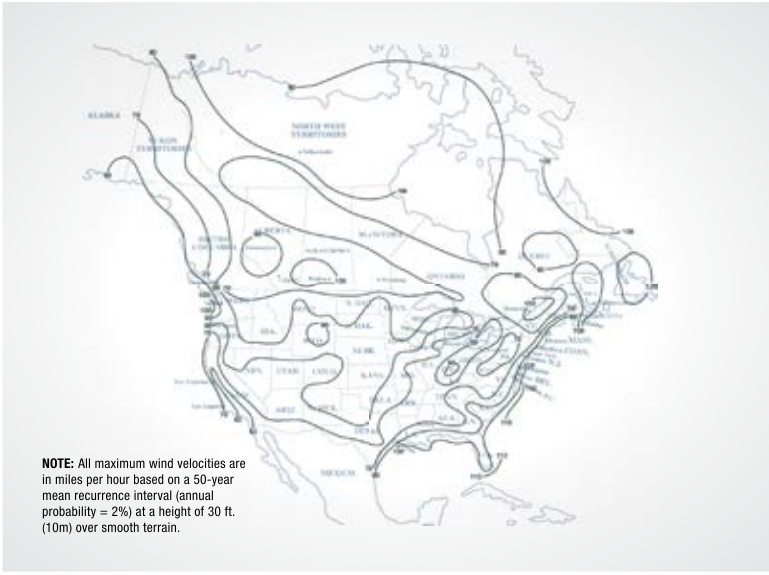
01



02



03



04

01 General loading map of USA with respect to loading of overhead lines

02 Basic wind speed (miles per hour) - USA

03 General loading map of Canada with respect to loading of overhead lines

04 Basic wind speed (miles per hour) - Canada

Figure 250-2CDN is a wind map of North America reproduced from ASCE 7-88 [52]. For Hawaii and Puerto Rico, the basic wind speeds are 80mi/h and 95 mi/h, respectively.

NOTE: Wind velocity usually increases with height; therefore, experience may show that the wind pressures specified herein need to be further increased.

Loading for Grades B, C and D

General loading requirements and maps (IEEE: Section 25 loading for Grades B, C and D)

General

1. It is necessary to estimate the loadings that may be expected to occur on a line because of wind and ice during all seasons of the year. These weather loadings shall be the values of loading resulting from the application of Rules 250B or 250C. Where both rules apply, the required loading shall be the one that, when combined with the appropriate overload capacity factors, has the greater effect on strength requirements.
2. Where construction or maintenance loads exceed those imposed by Rule 250A1, which may occur more frequently in light loading areas, the assumed loadings shall be increased accordingly.
3. It is recognized that loadings actually experienced in certain areas in each of the loading districts may be greater, or in some cases, may be less than those specified in these rules. In the absence of a detailed loading analysis, no reduction in the loadings specified therein shall be made without the approval of the administrative authority.

Combined ice and wind loading

Three general angles of loading due to weather conditions are recognized and are designated as heavy, medium and light loading. Diagram 01 shows the districts in which these loadings are normally applicable.

Diagram 01 also shows the radius thickness of ice and the wind pressures to be used in calculating loading. Ice is assumed to weigh 57 lb/ft^3 (913 kg/m^3).

Extreme wind loading

If any portion of a structure or its supported facilities exceeds 60 ft (18m) above ground or water level, the applicable horizontal wind speed of diagram 02, as determined by the linear interpolation, shall be used to calculate horizontal wind pressures. These pressures shall be applied to the entire structure and supported facilities without ice loading.

The following formulas shall be used to calculate wind pressures on cylindrical surfaces:

pressure in lb./ft.3 = 0.00256 (v m/h)^2

pressure in pascals = 0.613 (v m/h)^2

Where:
m = meters
s = seconds

Figure 250-2 lists the conversions of velocities to pressures for typical wind speeds as calculated by the formulas listed above. If no portion of the structure or its supported facilities exceeds 60 ft (18m) above ground or water level, the provisions of this rule are not required.

For U.S. customers, please refer to diagrams 01 and 02 above, or refer to pages 37-38 for the U.S. and Canadian wind loading diagrams.

Structural design

An installed cable tray system functions as a beam under a uniformly distributed load. The four basic beam configurations found in cable installations are simple, continuous, cantilever and fixed. Each is attached to the cable tray support in a different way.

Continuous beam
Cable tray sections forming spans constitute a continuous beam configuration, the most common found in cable tray installations. This configuration exhibits characteristics of the simple beam and the fixed beam. For example, with loads applied to all spans at the same time, the ends spans function like simple beams, while the counterbalancing loads on either side of a support function like a fixed beam. As the number of spans increases, the continuous beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load carrying capability increases.

Simple beam
A straight section of cable tray supported at both ends, but not fastened, functions as a simple beam. Under a load, the tray will exhibit deflection. The load-carrying capacity of a cable tray unit should be based on simple beam loading, since this type of loading occurs at run ends, offsets, etc., in any tray system. The NEMA/CSA Load Test is a simple beam, uniformly distributed load test, used primarily because it is easy to test and represents the worst-case beam condition compared to continuous or fixed configurations. The only criterion for NEMA/CSA acceptance is the ability to support 150% of the rated load.

Fixed beam
Like the cantilever beam, a fixed beam applies more to the cable tray supports than the tray itself, because both ends of a fixed beam are firmly attached to the supports. The rigid attachment prevents movement and increases loadbearing ability.

Cantilever beam
A cantilever beam has more to do with the cable tray supports than the tray. Attaching one end of a beam to a support while the other end remains unsupported, as when wall mounting a bracket, creates a cantilever beam configuration. Obviously, with one end unsupported, the load rating of a cantilever beam is significantly less than that of a simple beam.

Design loadings
Basic cable trays are designed on the basis of maximum allowable stress for a certain section and material. The allowable cable load varies with the span, type and width of the tray.

Splicing
Since the need for a continuous system requires that side rails be spliced, splice plates must be both strong and easy to install. The Thomas & Betts aluminum snap-in splice plate allows hands-free installation of hardware for easier assembly. If practical, splices in a continuous span cable tray system should be installed at points of minimum stress. Unspliced straight sections should be used on all simple spans and on end spans of continuous span runs. Straight section lengths should be equal to or greater than the span length to ensure not more than one splice between supports.

Examples of splicing configurations are shown on page 47.

Basic design stresses
Allowable working stresses are the basis for all structural design. Since they must be of such magnitude as to assure the safety of the structure against failure, their selection is a matter of prime importance. In practice, a basic design stress is determined by dividing the strength of the material by a factor of safety. The determining factors in establishing a set of basic design stresses for a structure are, therefore, the mechanical properties of the materials and suitable factors of safety. Yield strength and ultimate strength are the mechanical properties most commonly considered to govern design.

Values for these properties are readily obtainable. In determining the factor of safety, the designer must usually be guided by current practice – the "standard specifications" adopted by various technical societies and associations – and his or her own judgment and experience.

Factors of safety
Since a low value for the factor of safety results in economy of material, the designer seeks to establish a value as low as is practical, based on sound engineering judgment and experience. In making the determination, consideration of the following factors is highly important:

- **The accuracy with which the loads to represent service conditions are selected and assumed.** If there is much doubt concerning these loads, the basic design stress will have to be more conservative than under conditions where the loads are known with considerable accuracy.
- **The accuracy with which the stresses in the members of a structure are calculated.** Many approximations are used in structural design to estimate stress distribution. The choice of a factor of safety should be consistent with how accurate the analysis is. The more precise the method, the greater the allowable unit stress may be.
- **The significance of the structure being designed.** The designer must keep in mind the relative importance of the structure and appraise the possibility of its failure causing significant property damage or loss of life. In this respect, the significance of the design will govern the choice of a factor of safety to a considerable extent.

The factors of safety used in designing most common types of structures are an outgrowth of the experience gained from many applications and tests – even failures. The trend in recent years has been to reduce the factors of safety in line with improved quality of material and increasing knowledge of stress distribution. Further reductions may be made in the future as greater accuracy in determinations becomes possible and practicable.

Application of design stresses to cable tray systems
A cable tray manufacturer must design standard products to accommodate the great variations encountered in applications. The factors affecting the selection of a suitable basic design stress necessarily result in more conservative stresses than might otherwise be required.

An engineer who is in a position to determine specific stress requirements with a far greater degree of accuracy may consider that the manufacturer's basic design stresses are too conservative for a particular project. Using individual experience and judgment, he or she would establish a new set of basic design stresses, selecting those safety factors that would result in a cable tray system best suited to meet the projected service conditions. With these stresses, the engineer can easily calculate an increase or decrease in the manufacturer's loading data, since the load is always in direct proportion to the stress.

The factors of safety used in determining maximum allowable stresses are as follows:

Aluminum alloys
- For tension: the lower of ⅓ the minimum ultimate strength or ½ the minimum yield strength in tension.
- For compression: the lower of ⅓ the minimum ultimate strength or ⅔ the minimum yield strength in compression.
- For shear: the lower of ⅓ the minimum ultimate strength or ½ the minimum yield strength in shear.

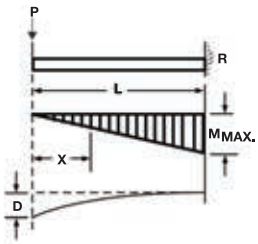
Hot-rolled steels
- For tension: the lower of ½ the minimum ultimate strength or the minimum yield point in tension times .61.
- For compression: the lower of ½ the minimum
- ultimate strength or the minimum yield point in compression times .61.
- For shear: maximum stress not to exceed a value of ⅔ the basic design stress for tension.

Structural design *(continued)*

Design efficiency
A tray designed to perform its required function with the minimum weight (which facilitates installation) requires the material to be used in the most effective manner. The design requirements of side rails are different from those of rungs or ventilated bottom; fabricated tray allows the designer to use different shapes and thicknesses of metal to the best advantage. The strength of the side rail and rungs is increased by the proper use of metal in the high strength heat-treated aluminum or continuously rolled cold-worked steel sections.

Loading
for cantilever beams

Uniform load



Reaction: $R = wL = W$

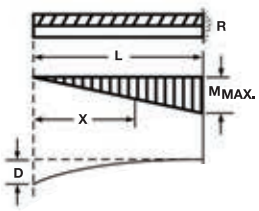
Moment at any point: $\mathbf{M} = \frac{WX^2}{2} = \frac{WX^2}{2L}$

Maximum moment: $\mathbf{Mmax} = \frac{wL^2}{2} = \frac{WL}{2}$

Maximum deflection: $\mathbf{D} = \frac{wL^4}{8EI} = \frac{WL^3}{8EI}$

Maximum shear: $\mathbf{V} = wL$

Concentrated load at free end



Reaction: $R = P$

Moment at any point: $\mathbf{M} = Px$

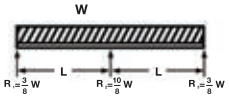
Maximum moment: $\mathbf{Mmax} = PL$

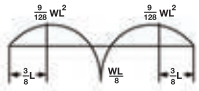
Maximum deflection: $\mathbf{D} = \frac{PL^3}{3EI}$

Maximum shear: $\mathbf{V} = P$

Loading
for continuous beams

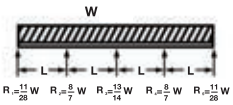
Two span

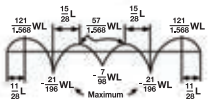




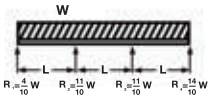
$W = wL$

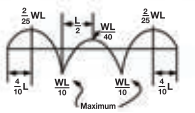
Four span



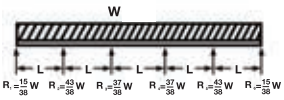


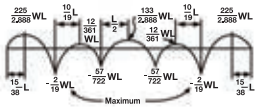
Three span





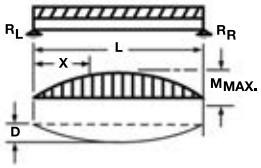
Five span





Loading
for simple beams

Uniform load
w per unit of length, total load w



Reaction: $Rl = Rr = \frac{WL}{2} = \frac{W}{2}$

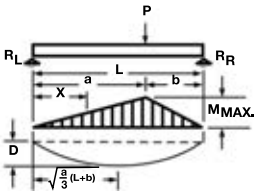
Moment at any point: $\mathbf{M} = \frac{wX(L-X)}{2} = \frac{WX(L-X)}{2L}$

Maximum moment: $\mathbf{Mmax} = \frac{wL^2}{8} = \frac{WL}{8}$

Maximum deflection: $\mathbf{D} = \frac{5wL^4}{384EI} = \frac{5WL^3}{384EI}$

Maximum shear: $\mathbf{V} = \frac{WL}{2}$

Concentrated load at any point



Reaction: $RL = \frac{Pb,\ Rr}{L} = \frac{Pa}{L}$

Moment at any point: $\mathbf{X} <= a,\ M = RlX = \frac{Pa}{L}$

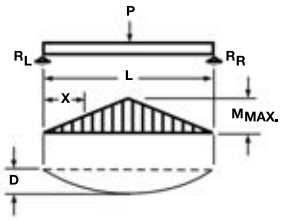
$\mathbf{X} >= a,\ M = Rr\ (L-X) = \frac{Pa\ (L-X)}{L}$

Maximum moment: At $\mathbf{X} = a,\ Mmax = \frac{Pab}{L}$

Maximum deflection: $\mathbf{D} = \frac{Pab(L+b)3a(L+b)}{27EIL}$

Maximum shear: $\mathbf{V} = \frac{Pa,}{L}$ when a > b

Concentrated load at center



Reaction: $Rl = Rr = \frac{P}{2}$

Moment at any point: $\mathbf{X} <= \frac{L}{2}\ \ M = \frac{PX}{2}$

$\mathbf{X} >= \frac{L}{2}\ \ M = \frac{P(L-X)}{2}$

Maximum moment at centre: $\mathbf{Mmax} = \frac{PL}{4}$

Maximum deflection: $\mathbf{D} = \frac{PL3}{48EI}$

Maximum shear: $\mathbf{V} = \frac{P}{2}$

Selection process
3. Select the tray type

*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 457.2mm

Cable tray is available with three styles of bottom:

Ladder Cable Tray is a prefabricated structure consisting of two longitudinal side rails connected by individual transverse members.

Ventilated Cable Tray is a prefabricated structure consisting of a ventilated bottom within integral or separate longitudinal side rails, with no openings exceeding 4" (101.6mm) in a longitudinal direction.

Solid Bottom Cable Tray is a prefabricated structure without openings in the bottom.

Ladder tray is most often used because of its cost-effectiveness. The designer has a choice of four nominal rung spacings: 6, 9, 12 and 18" (*mm). The greatest rung spacing compatible with an adequate cable-bearing surface area should be selected. Heavy power cables often require greater cable-bearing area due to the possibility of creep in the jacket material of the cable. If this is a concern, consult the cable manufacturer.

This condition may require the use of ventilated tray, which also offers additional mechanical protection for the cables. Local building codes may require totally enclosed cable tray systems under certain conditions. The designer should verify these before specifying the type of tray to be used.

Selection process
4. Select the tray size

4. The width or height of a cable tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 6, 9, 12, 18, 24, 30, 36 and 42" (*mm).

*Dimension Conversion Table:
3⅝" = 92.1mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 457.2mm
24" = 609.6mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

When specifying width, it is important to remember that the load rating does not change as the width increases. Even with six times the volume, a 36" (914.4mm) wide tray cannot hold any more weight than a 6" (152.4mm) wide tray. If the load rating of the tray permits, cable can be piled deeper in the tray. Most tray classes are available in a nominal 3⅝, 4, 5, 6, 7 and 8" (*mm) height also available as a special – see appendix.

Cable ties or other spacing devices may be used to maintain the required air space between cables.

Example 1 - Cable tray width is obtained as follows:

	(D) List cable outside diameter		(N) List number of cables	Multiply (D) x (N) Subtotal of the sum of the cable diameters	
List cable sizes	**(in)**	**(mm)**		**(in)**	**(mm)**
3/C - 500 kcmil	2.26	57.4	1	2.26	57.4
3/C - 250 kcmil	1.76	44.7	2	3.52	89.4
3/C - 4/0 AWG	1.55	39.4	4	6.20	157.5

Example 2 - Cable tray width is obtained as follows:

	(A) List cable cross sectional area		(N) List number of cables	Multiply (A) x (N) Total for the cross sectional area for each sixe	
List cable sizes	**(in²)**	**(mm²)**		**(in²)**	**(mm²)**
3/C - #12 AWG	0.167	107.74	10	1.67	1077.42
4/C - #12 AWG	0.190	122.58	8	1.52	980.64
3/C - #6 AWG	0.430	277.42	6	2.58	1664.51
3/C - #2 AWG	0.800	516.13	9	7.20	4645.15

Table 1

Inside width of cable tray Column 1		Allowable cable area Column 2	
(in)	**(mm)**	**(in²)**	**(mm²)**
6	152.4	7	4516.12
9	228.6	10.5	6774.18
12	304.8	14	9032.24
18	457.2	21	13548.40
24	609.6	28	18064.50
30	762	35	22580.60
36	914.4	42	27096.70

Table 2

Inside width of cable tray Column 1		Allowable cable area Column 2	
(in)	**(mm)**	**(in²)**	**(mm²)**
6	152.4	5.5	3548.38
9	228.6	8	5161.28
12	304.8	11	7096.76
18	457.2	16.5	10645.14
24	609.6	22	14193.50
30	762	27.5	17741.90
36	914.4	33	21290.30

Table 3

Inside width of cable tray Column 1		Allowable cable area Column 2	
(in)	**(mm)**	**(in²)**	**(mm²)**
6	152.4	7	4516.12
9	228.6	10.5	6774.18
12	304.8	14	9032.24
18	457.2	21	13548.40
24	609.6	28	18064.50
30	762	35	22580.60
36	914.4	42	27096.70

Table 4

Inside width of cable tray Column 1		Allowable cable area Column 2	
(in)	**(mm)**	**(in²)**	**(mm²)**
6	152.4	5.5	3548.38
9	228.6	8	5161.28
12	304.8	11	7096.76
18	457.2	16.5	10645.14
24	609.6	22	14193.50
30	762	27.5	17741.90
36	914.4	33	21290.30

Selection process
5. Cable tray selection

5. Cable tray selection – width and available loading depth. The following guidelines are based on the 2014 National Electrical Code®, Article 392.

*NOTE: Increasing the cable tray loading depth does not permit an increase in allowable cable area for power or lighting cables or combinations of power, lighting, control and signal cables. The maximum allowable cable area for all cable tray with a 3" (76.2mm) or greater loading depth is limited to the allowable cable area for a 3" (76.2mm) loading depth.

i) Number of multiconductor cables rated 2000 volts or less in the cable tray

1) 4/0 AWG or larger cables
a) Ladder or ventilated trough cable trays
The ladder or ventilated trough cable tray must have an inside usable width equal to greater than the sum of the diameters (Sd) of all the cables to be installed in it, and the cables must be installed in a single layer.

In cases where spacing is required between cables, the cable tray width is not to be less than the sum of diameters of the cables and the sum of the required spacing widths between the cables.

b) Solid bottom cable trays
When using solid bottom cable trays, the sum of the diameters of all cables is not to exceed 90% of the available cable tray width, and the cables must be installed in a single layer.

Example 1 (see table): Cable tray width is obtained as follows:
The sum of the diameters (Sd) of all cables = 2.26 + 3.52 + 6.20 = 11.98; therefore, a ladder cable tray with available width of at least 12" (304.8mm) is required.

2) Cables smaller than 4/0 AWG
a) Ladder or ventilated trough cable trays
The total sum of the cross-sectional areas of all the cables to be installed in the cable tray must be equal to or less than the allowable cable area for tray width, as indicated in Column 2 of Table 1.

b) Solid bottom cable trays
The total sum of the cross-sectional areas of all the cables to be installed in the cable tray must be equal to or less than the allowable cable area for

Example 2 (see table): The cable tray width is obtained as follows:
The sum of the total areas is
1.67 + 1.52 + 2.58 + 7.20 = 12.97 sq. in. (329.4mm²).

Using Table 1, a 12" (304.8mm) wide ladder cable tray with an allowable cable area of 14 sq. in. (355.6mm²) should be used*.

3) 4/0 AWG or larger cables installed with cables smaller than 4/0 AWG
a) Ladder or ventilated trough cable trays
The ladder or ventilated cable tray needs to be divided into two zones (a barrier or divider is not required, but one can be used if desired) so that the 4/0 AWG and larger cables have a dedicated zone, as they are to be placed in a single layer. The formula for this type of installation is shown in Table 3.

The sum of the cross-sectional areas of all cables smaller than 4/0 AWG shall not exceed the maximum allowable fill area resulting from calculation in Column 2 of Table 3.

b) Solid bottom cable trays
Where 4/0 AWG or larger cables are installed in the same cable tray with cables smaller than 4/0 AWG, the sum of the cross sectional area of all cables smaller than 4/0 AWG shall not exceed the maximum allowable fill area resulting from the calculation in Column 2 of Table 4. The 4/0 AWG and larger cables are to be installed in a single layer, and no other cables are to be placed on them.

A direct method to determine the correct cable tray width when 4/0 AWG or larger cables are installed with cables smaller than 4/0 AWG, is by calculating the equivalent cable tray area required for the larger cables and adding this to the smaller cable area.

*Notes:
1. The cable sizes used in this example are a random selection.
2. For solid bottom trays, use 1 in place of 1.2 as the factor for figuring equivalent area and use Table 2 instead of Table 1 (see page 37) for identifying the tray width.

Cable tray selection (continued)

Example 3 (see table): The ladder cable tray width is obtained as follows:

A – Equivalent area required for #4/0 AWG and larger multiconductor cables.

The sum of the diameters of all the larger cables (Sd) = 6.78 + 6.20 = 12.98" (329.7mm).

Equivalent area required for the larger cables = 1.2 (12.98) = 15.576 sq. in. (395.6mm).

B (see Example 4) – Equivalent area required for #4/0 AWG and larger multiconductor cables.*

Sum of area for items 3, 4, and 5
= 3.40 + 4.00 + 3.20 = 10.6 sq.in.
= (2193.54 + 2580.64 + 2064.51 = 6838.70mm²)

Total combined minimum square area required
= 15.576 + 10.6 = 26.176 sq. in.
= (10049.01 + 6838.70 = 16887.71mm²)

Inside width of cable tray required from Table 1 = 24.0" (609.6mm)

A 24" (609.6mm) wide cable tray is required. The 24" (609.6mm) cable tray has the capacity for additional future cables.

1) Multiconductor control and/or signal cables only
a) Ladder or ventilated trough trays
A ladder or ventilated trough cable tray containing only control and/or signal cables may have 50% of its total available cable area filled with cable. A depth of 6" (152.4mm) should be used to calculate the allowable interior cross-sectional area of any cable tray that has a usable inside depth of more than 6" (152.4mm).

b) Solid bottom trays
A solid bottom cable tray containing only control and/or signal cables may have 40% of its total available cable area filled with cable. A depth of 6" (152.4mm) should be used to calculate the allowable interior cross-sectional area of any cable tray that has a usable inside depth of more than 6" (152.4mm).

Example: Cable tray width is obtained as follows: 2/C-#16 AWG instrumentation cable cross sectional area = 0.04 sq. in. (25.81mm²).

Total cross sectional area for 300 cables
= 12.00 sq. in. (7741.92mm²)
Minimum available cable area needed for a ladder or ventilated trough cable tray
= 12.00 x 2 = 24.00 sq. in. (15483.80mm²);
therefore, the cable tray width required for 4" (101.6mm) available depth tray
= 24.00/4 = 6" (3870.96mm).

Example 3 - The ladder cable tray width is obtained as follows:

		(D) List cable outside diameter		(N) List number of cables	Multiply (D) x (N) Subtotal of the sum of the cable diameters	
Item	**List cable sizes**	**(in)**	**(mm)**		**(in)**	**(mm)**
1	3/C - 500 kcmil	2.26	57.4	3	6.78	172.2
2	3/C - 4/0 AWG	1.55	39.4	4	6.20	157.5

Example 4 - B - Area required for #3/0 AWG and smaller multiconductor cables

		(A) List cable outside diameter		(N) List number of cables	Multiply (A) x (N) Total for the cross sectional area for each sixe	
Item	**List cable sizes**	**(in²)**	**(mm²)**		**(in²)**	**(mm²)**
3	3/C - #12 AWG	0.17	4.3	20	3.4	2193.54
4	3/C - #10 AWG	0.2	5.1	20	4	2580.64
5	3/C - #2 AWG	0.8	20.3	4	3.2	2064.51

Table 5

Inside width of cable tray Column 1		Allowable cable area Column 2	
(in)	**(mm)**	**(in)**	**(mm)**
6	152.4	6.5	4193.54
9	228.6	9.5	6129.02
12	304.8	13	8387.08
18	457.2	19.5	12580.62
24	609.6	26	16774.20
30	762	32.5	20967.70
36	914.4	39	25161.20

Table 7 - Number of 600 volt single conductor cables that may be installed in ladder or ventilated trough cable tray

Single conductor size	Outside diameter (in)	Outside diameter (mm)	Area (In²)	Area (mm²)	Cable tray width in. (mm) 6" (152.4mm)	9" (228.6mm)	12" (304.8mm)	18" (457.2mm)	24" (609.6mm)	30" (762mm)	36" (1066.8mm)
1/0	0.58	14.7	–	–	10	15	20	31	41	51	62
2/0	0.62	15.7	–	–	9	14	19	29	38	48	58
3/0	0.68	17.3	–	–	8	13	17	26	35	44	52
4/0	0.73	18.5	–	–	8	12	16	24	32	41	49
250 kcmil	0.84	21.3	0.55	354.84	11	18	24	35	47	59	71
350 kcmil	0.94	23.9	0.69	445.16	9	14	19	28	38	47	57
500 kcmil	1.07	27.2	0.90	580.64	7	11	14	22	29	36	43
750 kcmil	1.28	32.5	1.29	832.26	5	8	10	15	20	25	30

NOTES:
1. Cable diameters used are those for Okonite-Okolon 600 volt single conductor power cables.
2. To avoid problems with unbalanced voltages, the cables should be bundled with ties every 3–4 ft. The bundle must contain the circuit's three-phase conductors plus the neutral if one is used.
3. The single conductor cables should be firmly tied to the cable trays at 6 ft. or less intervals.

ii) Number of single conductor cables rated 2000 volts or less in the cable tray

All single conductor cables to be installed in the cable tray must be 1/0 AWG or larger, and they are not to be installed in solid bottom trays.

Ladder or ventilated trough cable trays:
1) 1000 kcmil or larger cables
When all the cables are 1000 kcmil or larger, the sum of the diameters (Sd) for all single conductor cables to be installed is not to exceed the cable tray width. Cables must be installed in a single layer.

2) 250 kcmil to 900 kcmil cables
The total sum of the cross-sectional areas of all the single conductor cables to be installed in the cable tray must be equal to less than the allowable cable area for the tray width, as indicated in Column 2 of Table 5.

3) 1000 kcmil or larger cables installed with cables smaller than 1000 kcmil
The total sum of cross sectional areas of all the cables smaller than 1000 kcmil is not to exceed the maximum allowable fill area resulting from computation in Column 2 of Table 6 for the appropriate cable tray width.

4) Single conductor cables 1/0 AWG through 4/0 AWG
The sum of the diameters of all single conductor cables is not to exceed the cable tray width (see table 7).

iii) Number of type MV and MC cables rated 2001 volts or over in the cable tray

The sum of diameters (Sd) of all cables rated 2001 volts or over is not to exceed the cable tray width, and the cables must be installed in a single layer. Where single conductor cables are triplexed, quadruplexed, or bound together in circuit groups, the sum of diameters of the single conductors shall not exceed the cable tray width, and these groups shall be installed in a single-layer arrangement.

Table 6

Inside width of cable tray Column 1 (in)	Inside width of cable tray Column 1 (mm)	Allowable cable area Column 2 (1.1 Sd) (in²)	Allowable cable area Column 2 (1.1 Sd) (mm²)
6	152.4	6.5	4193.54
9	228.6	9.5	6129.02
12	304.8	13	8387.08
18	457.2	19.5	12580.62
24	609.6	26	16774.20
30	762	32.5	20967.70
36	914.4	39	25161.20

Selection process
6. Select the fittings

—
*Dimension
Conversion Table:
12" = 304.8mm
24" = 457.2mm
36" = 914.4mm
48" = 1,219.2mm

Fittings are used to change the size or direction of the cable tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be 12, 24, 36 or 48" (*mm), or even greater on a custom basis.

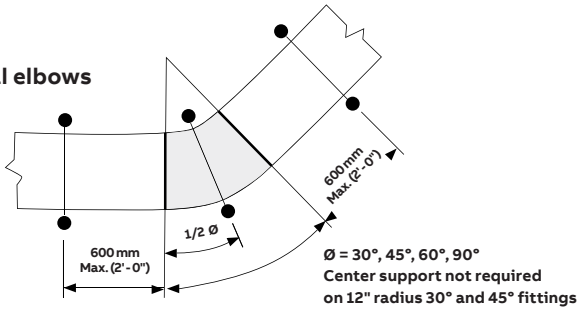
The selection requires a compromise, with the considerations being available space, minimum bending radius of cables, ease of cable pulling and cost.

The typical radius is 24" (457.2mm). Fittings are also available for 30°, 45°, 60° and 90° angles.

When a standard angle will not work, field fittings or adjustable elbows can be used. It may be necessary to add supports to the tray at these points. Refer to NEMA VE2 Installation Guidelines for suggested support locations. Note that fittings are not subject to NEMA/CSA load ratings.

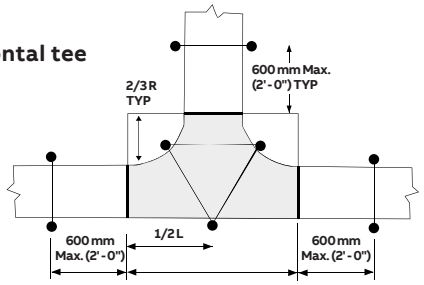
Support locations for fittings

Horizontal elbows



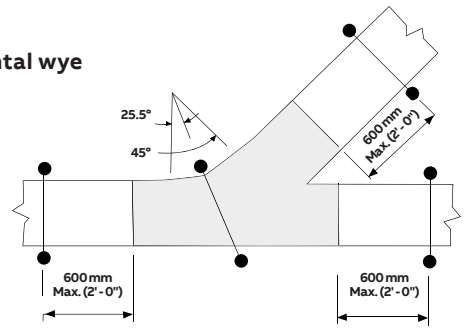
Ø = 30°, 45°, 60°, 90°
Center support not required
on 12" radius 30° and 45° fittings

Horizontal tee



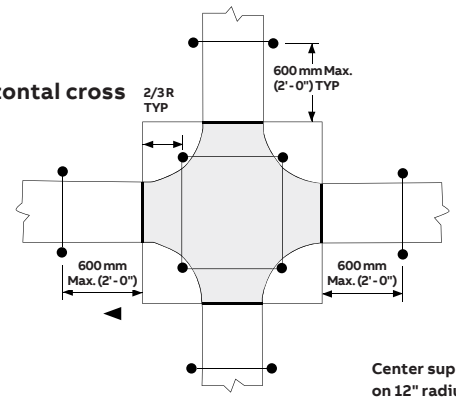
Center support not required
on 12" radius fittings

Horizontal wye



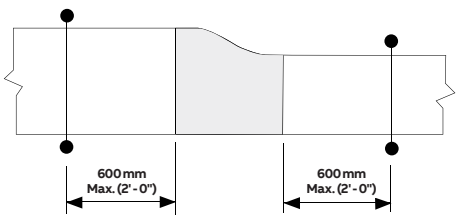
Center support not required
on 12" radius fittings

Horizontal cross

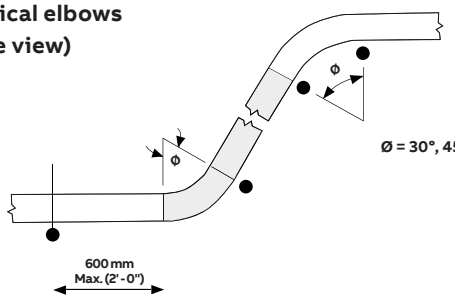


Center support not required
on 12" radius fittings

Reducer



Vertical elbows (side view)



Ø = 30°, 45°, 60°, 90°

Selection process
7. Consider deflection

Deflection of the cable tray affects the appearance of an installation, but it is not a structural issue. In the case of nonmetallic cable tray, deflection may be affected by elevated temperatures.

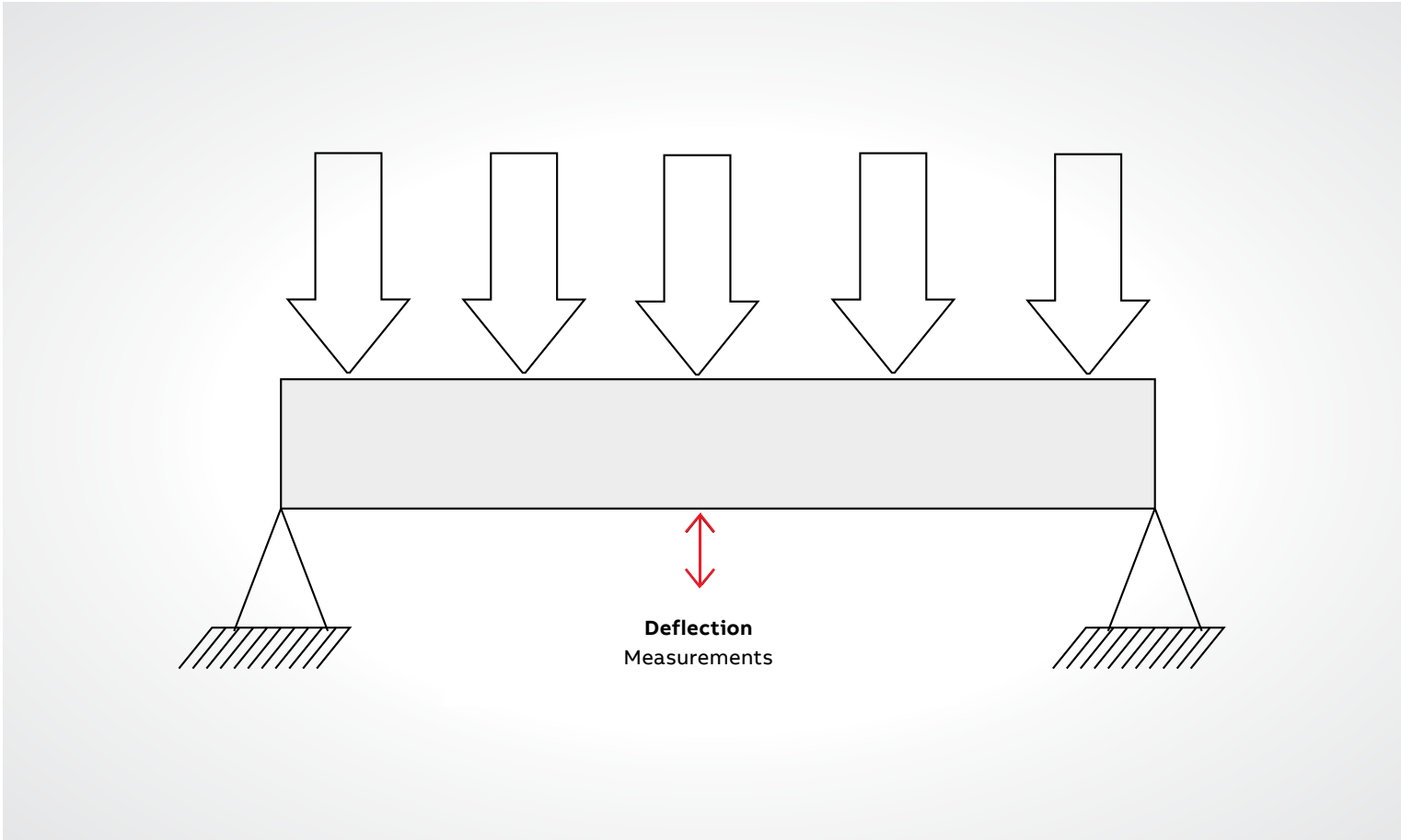
—
01 Test load = 1.5 x rated load x length

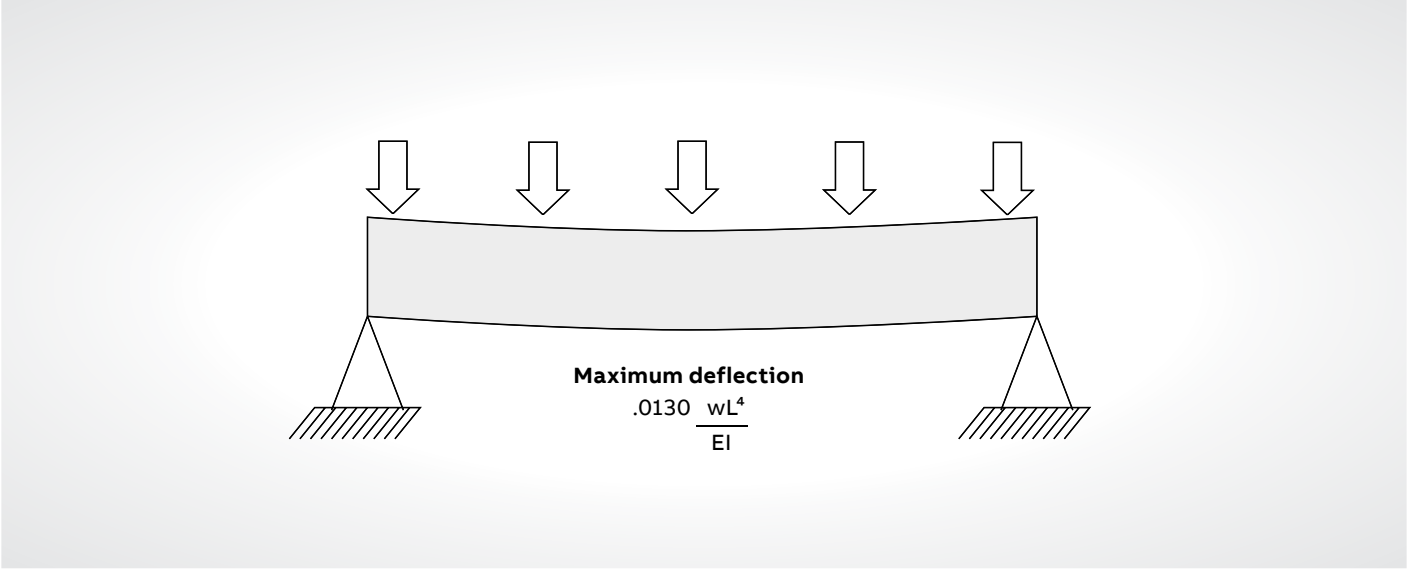
The NEMA/CSA load test is a simple beam, uniformly distributed load test (see diagram 01). This type of test was initially selected because:

- It was easiest to test.
- It represents the worst-case beam condition compared to continuous or fixed configurations. When consulting the manufacturer's catalog for deflection information, the designer must verify whether the data shown represents simple or continuous beam deflection. If continuous beam deflection is shown, the calculation factor should be given.

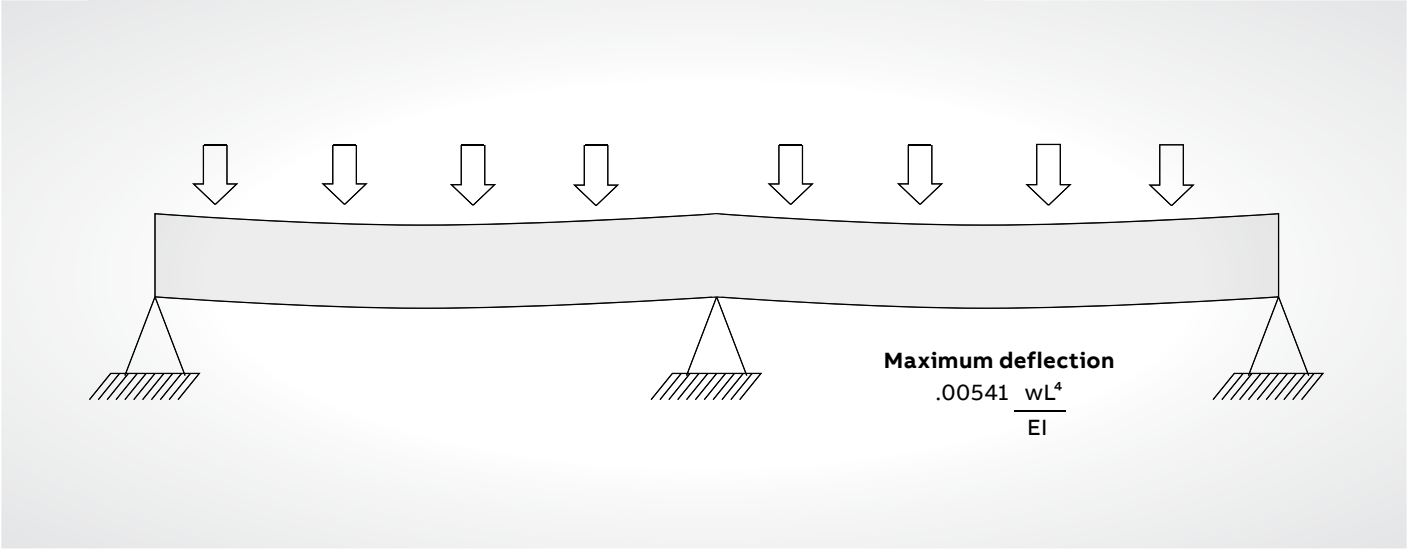
NEMA/CSA has one criterion for acceptance under their load test: the ability to support 150% of the rated load.

—
01





—
01



—
02

—
01 Simple beam
Uniformly distributed
load

—
02 Continuous
beam - two spans
Uniformly distributed
load

—

Consider deflection (continued)

Simple versus continuous beam deflection
Theoretical maximum deflection for a simple beam, uniformly distributed load may be calculated as:

$$.0130\ \frac{wL^4}{EI} \times 1728 = 22.5\ \frac{wL^4}{EI}$$

Where: **w** = Load in lb./ft.
L = Length in ft.
E = Modulus of elasticity lbf/in² (psi)
I = Moment of Inertia in in. cubed

The maximum deflection calculation for a continuous beam of two spans with a uniformly distributed load is:

$$.00541\ \frac{wL^4}{EI}$$

A continuous beam of two spans, therefore, has a theoretical maximum deflection of only 42% of its simple beam deflection. As the number of spans increases, the beam behaves increasingly like a fixed beam, and the maximum deflection continues to decrease. As this occurs, the system's load-carrying capability increases.

Location of splice plates

Since different bending moments are created in each span, there is no simple factor to approximate deflection as the number of spans increases. It is possible to calculate these deflections at any given point by using second integration of the basic differential equation for beams. Testing shows that the center span of a three-tray continuous beam can deflect less than 10% of its simple beam deflection.

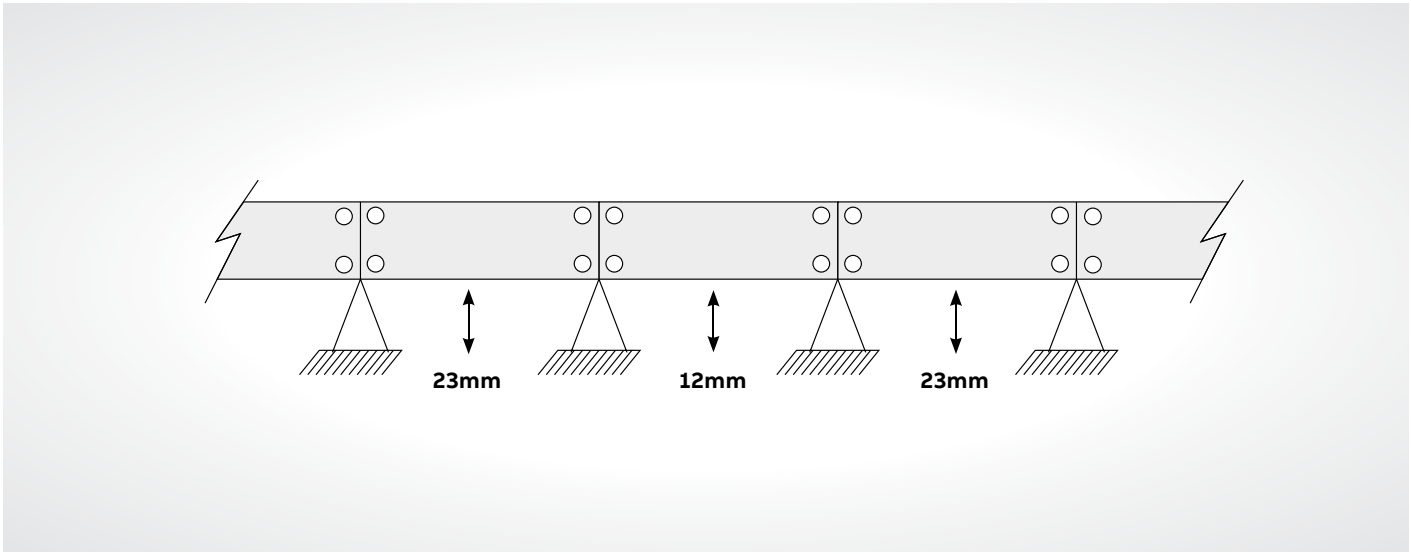
The support span should not be greater than the straight section length, to ensure no more than one splice is located between supports.

Location of splice plate
The location of the splice plate dramatically affects the deflection of a cable tray system under equal loading conditions. Testing indicates that the maximum deflection of the center span of a three-span tray run can decrease four times if the splice plates are moved to the one-quarter point from the above supports. This can be a major concern for designers considering modular systems for tray and pipe racks.

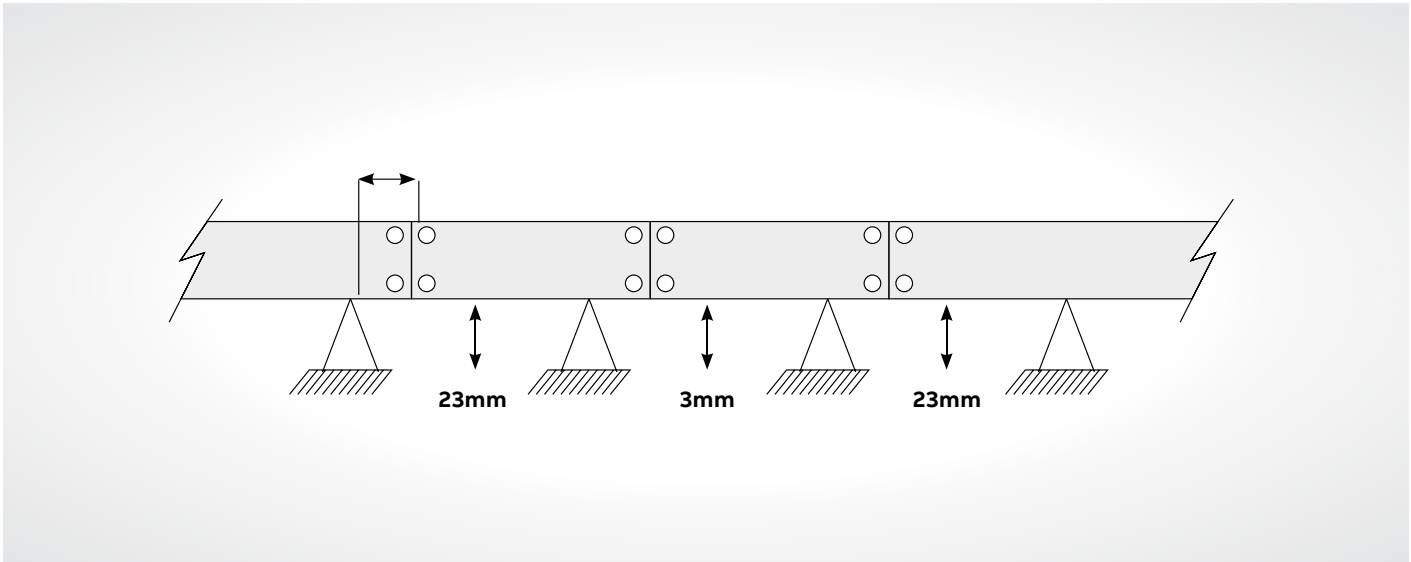
03 Splice plate at supports – not recommended

04 Splice plate at ¼ span from supports – ideal layout

03



04



Selection process

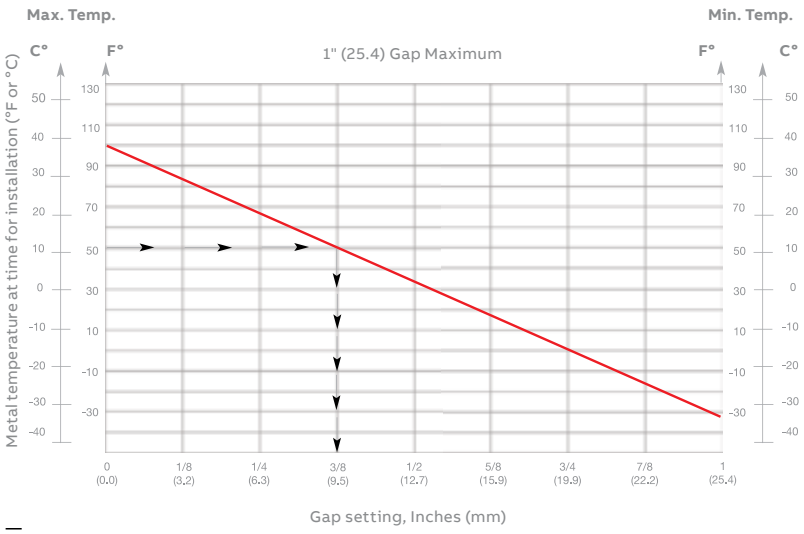
8. Consider thermal expansion and contraction

—
01 Typical cable tray installation

—
Table 1 - Maximum distance between expansion joints (For 1" (25.4mm) Movement)

Temperature differential		316 Stainless steel		Steel		Aluminum	
°F	°C	(ft)	(m)	(ft)	(m)	(ft)	(m)
25	3	379	115	512	156	260	79
50	4	189	58	256	78	130	40
75	42	126	38	171	52	87	27
100	56	95	29	128	39	65	20
125	70	76	23	102	31	52	16
150	83	63	19	85	26	43	13
175	97	54	16	73	2	37	11

Figure 1 - Gap setting of expansion splice plate



—
01

A cable tray system may be affected by thermal expansion and contraction, which must be taken into account during installation.

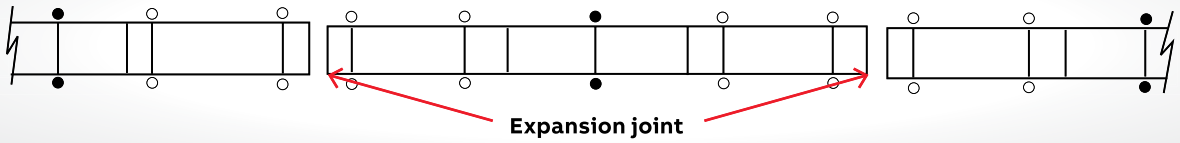
To determine the number of expansion splice plates you need, decide the length of the straight cable tray runs and the total difference between the minimum winter and maximum summer temperatures. To function properly, expansion splice plates require accurate gap settings between trays. To find the gap (see Figure 1).

Plot your gap setting

- Locate the lowest metal temperature on min. temperature line.
- Locate the highest metal temperature on max. temperature line.
- Connect these two points.
- Locate installation temperature and plot to high/low line.
- Drop plot to gap setting.

The support nearest the midpoint between expansion splice plates should be anchored, allowing the tray longitudinal movement in both directions.
All other support location should be secured by expansion guides. (See diagram 01)

● = expansion guide clamp at support ○ = hold-down clamp (anchor) at support



Selection process
9. Electrical grounding capacity

National Electrical Code® Article 392-7 allows cable tray to be used as an equipment grounding conductor. All Thomas & Betts standard cable trays are classified by Underwriter's Laboratories per US NEC® Table 392-7 based on their cross-sectional area.

The corresponding cross-sectional area for each side rail design (2-side rails) is listed on the label. This cable tray label is attached to each straight section that is UL® classified. Fittings are not subject to CSA or UL.

NEC® Table 392.7 (B)
Metal area requirements for cable trays used as equipment grounding conductors.

For SI units: 1 in² = 645mm².

NEC® Table 392.7 (B) - Metal area requirements for cable trays used as equipment grounding conductors

Maximum fuse ampere rating, circuit breaker ampere trip setting, or circuit breaker protective relay ampere trip setting for ground fault protection of any cable circuit in the cable tray system	Minimum cross-sectional area of metal*			
	Steel cable trays		Aluminum cable trays	
	(in²)	(mm²)	(in²)	(mm²)
60	0.2	129.03	0.2	129.03
100	0.4	258.06	0.2	129.03
200	0.7	451.61	0.2	129.03
400	1	645.16	0.4	258.06
600	1.50**	967.74**	0.4	258.06
1000	–	–	0.6	387.10
1200	–	–	1	645.16
1600	–	–	1.5	967.74
2000	–	–	2**	1290.32

* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.
** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600 amperes. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000 amperes.
For larger ampere ratings, an additional grounding conductor must be used.

* National Electric Code and NEC are registered trademarks of the National Fire Protection Association, Inc.

See pages 293 - 297 for grounding and bonding products.

For more information on grounding and bonding cable tray, refer to section 4.7 of the NEMA VE 2-2006 cable tray installation guidelines.*

Engineering cable tray Specification

*Dimension Conversion Table:
2⅝ = 66.7mm
3⅝ = 92mm
4 = 101.6mm
5 = 127mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Section 1 - Acceptable manufacturers

1.01 Cable tray shall be by one manufacturer and shall consist of straight sections, fittings and accessories per NEMA VE1-2006/CSA C22.2 No. 126.1-02. Cable tray must be listed by UL as equipment grounding conductor. There shall be no burrs, projections or sharp edges to damage the cable insulation.

1.02 Cable tray design shall be that of T&B® Cable Tray Systems as manufactured by Thomas & Betts.

Section 2 - Material

2.01 **Aluminum** – All side rails and rungs shall be of extruded aluminum type 6063-T6. Side rails shall be of I-beam construction.

2.02 **Pregalvanized steel** – All side rails and rungs shall be of steel conforming to the requirements of ASTM A653/A653M-06a with G90 coating thickness. Side rail shall be reinforced with flanges turned inward.

2.03 **Hot-dipped galvanized steel** – All side rails and rungs shall be made from steel conforming to the requirements of A1008/A1008M-07, SS grade 33, type 2 or A1011/A1011-06b SS, grade 33 and shall be hot-dipped galvanized after manufacture per ASTM A123 providing a minimum thickness of 1.50 oz per ft.2

2.04 **Stainless steel** – All cable tray and accessories shall be of type AISI 316 stainless steel.

Section 3 - Tray types

3.01 **Ladder** – Ladder tray shall incorporate two side rails connected by lateral rungs. Rungs shall provide minimum 1" (25.4mm) bearing surface and have slots perpendicular to the centerline of the rung on 1" centers for attachment of cable ties. Rungs shall also have an open slot to facilitate attachment of pipe straps and other accessories. Rungs shall be installed at 6, 9, 12 or 18" (*mm) spacing.

3.02 **Solid bottom** – Solid bottom tray shall incorporate two side rails connected by rungs on 12" (304.8mm) centers with a solid sheet applied below the rungs.

3.03 **Ventilated trough** – Ventilated trough tray shall incorporate two side rails connected by rungs at 4" (101.6mm) spacing.

Section 4 - Dimensions

2.01 **Side rail height** – Side rails heights shall be 3⅝, 4, 5, 6 and 7" (*mm). Minimum loading depths shall be 2⅝, 3, 4, 5, and 6" (*mm).

4.02 **Length** – All cable tray straight sections shall be supplied in 12 ft, 24 ft, 3m and 6m lengths.

4.03 **Width** – Cable tray shall be supplied in 6, 9, 12, 18, 24, 30 and 36" (*mm) widths as required.

4.04 **Radius fittings** – For all fittings requiring a radius, that radius shall be 12, 24, 36 or 48" (*mm) and shall be measured to the nearest perpendicular surface.

Section 5 - Accessories

2.01 **Covers and accessories** – Covers shall be supplied to protect tray cable where needed. Appropriate hold-downs shall be supplied to properly attach the covers to the tray.

5.02 **Splice plates** – Aluminum splice plates shall be designed to snap into tray side rail and shall be supplied with four squareneck carriage bolts and hex nuts for attachment. Steel splice plates shall be supplied with four square-neck carriage bolts and hex nuts for attachment.

Section 6 - Loading capabilities

6.01 Cable tray shall meet specified NEMA/CSA load ratings with safety factor of 1.5. The cable tray should also be able to support a 200 lb (9.9kg). concentrated load at midspan over and above stated cable load.

Selection of Thomas & Betts series of cable tray

Please refer to Table 2 for aluminum and Table 3 for steel

Table 1a – Span/load class designation – USA
(See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

Load		Span m (ft)				
kg/m	(lb/ft)	1.5 (5)	2.4 (8)	3.0 (10)	3.7 (12)	6.0 (20)
37	(25)	5AA	8AA	10AA	12AA	20AA
74	(50)	5A	8A	10A	12A	20A
112	(75)	–	8B	–	12B	20B
149	(100)	–	8C	–	12C	20C

NOTE: These ratings are also used in Mexico.

Table 1b – Span/load class designation – CANADA
(See Clauses 4.8.1, 4.8.2 and 6.1.2 (c).)

Load		Span m (ft)						
kg/m	(lb/ft)	1.5 (5)	2.0 (6.5)	2.5 (8.2)	3.0 (10)	4.0 (13)	5.0 (16.4)	6.0 (20)
37	(25)	–	–	–	A	–	–	–
45	(30)	–	–	A	–	–	–	–
62	(42)	–	A	–	–	–	–	–
67	(45)	–	–	–	–	–	–	D
82	(55)	–	–	–	–	–	D	–
97	(65)	–	–	–	C	–	–	–
99	(67)	A	–	–	–	–	–	–
112	(75)	–	–	–	–	–	–	E
113	(76)	–	–	–	–	D	–	–
119	(80)	–	–	C	–	–	–	–
137	(92)	–	–	–	–	–	E	–
164	(110)	–	C	–	–	–	–	–
179	(120)	–	–	–	D	–	–	–
189	(127)	–	–	–	–	E	–	–
259	(174)	C	–	–			–	–
299	(200)	–	–	–	E	–	–	–

Table 2 – Aluminum load/span class designation

Side rail height			Nominal load depth		NEMA	CSA
(in)	(mm)	Series	(in)	(mm)	class	class
4	101.6	AH14	3	76.2	8B	–
		AH34			12A	C/3m
		AH54			12B	D/3m
					12C	D/6m
					20A	E/3m
					20B	E/6m
5	127	AH25	4	101.6	12C	D/6m
		AH45			20A	E/3m
					20B	E/6m
6	152.4	AH16	5	127	12B	C/3m
		AH36			12C	E/6m
		AH46			20A	E/3m
		AH56			20B	E/6m
		AH66			20C	–
		AH76			20C	–
7	177.8	AH37	6	152.4	20C	E/6m
		AH47			20C	–
8	203.2	AH18	7	177.8	–	–

Table 3 – Steel load/span class designation

Side rail height			Nominal load depth		NEMA	CSA
(in)	(mm)	Series	(in)	(mm)	class	class
3⅝	92	SH13/SP13/SS13	2⅝	66.7	12A	C/3m
4	101.6	SH14/SP14/SS14	3	76.2	12C	D/3m
		SH34/SP34/SS34			20A	D/6m
5	127	SH25/SP25/SS25	4	101.6	20A	D/6m
		SH45/SP45/SS45			20B	E/6m
		SH55/SP55			20C	–
6	152.4	SH16/SP16/SS16	5	127	20A	D/6m
		SH36/SP36/SS36			20B	E/6m
		SH46/SP46/SS46			20C	–
7	177.8	SH37/SP37/SS37	6	152.4	20C	12C

Metallic - Aluminum
Fittings overview

—
01 H-style 90° horizontal bend
—
02 H-style horizontal tee
—
03 H-style 90° vertical bend

Features
- Straight side rail design: Extruded I-beam; nominal height 4" to 8" (101.6 to 203.2mm); loading height 3" to 7" (76.2 to 177.8mm)
- Snap-in splice plate connection
- Alternating position of every other rung for bottom or top mounting of cable ties
- Versatile continuous open slot rungs (strut profile)
- Holes spaced 1" (25.5mm) designed based on the exclusive Ty-Rap® cable tie slots ⅝" x ⅝" (15.9 x 15.9mm)
- Extra-wide rungs 1.8" (45.7mm) cable pinching
- Four-bolt connection
- Choice of two styles of fitting (U and H) side rails

Applications

Commercial:
- Schools
- Hospitals
- Office buildings
- Airports
- Casinos
- Stadiums

Industrial:
- Petrochemical plants
- Automotive plants
- Paper plants
- Food processing
- Power plants
- Refineries
- Manufacturing
- Mining

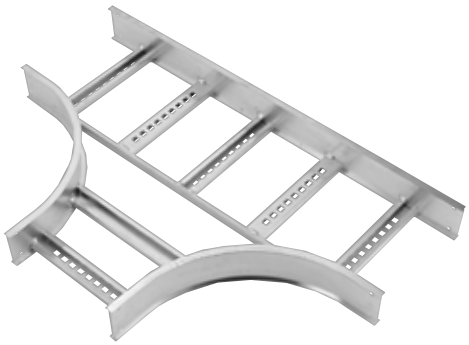
Accessories
- Each pair of splice plates comes with ⅜" (9.5mm) mounting hardware
- Complete line of accessories and support systems
- Zinc-plated hardware standard

Material
- 6063 aluminum alloy

Compliance
- CSA, NEMA, NEC®, UL®

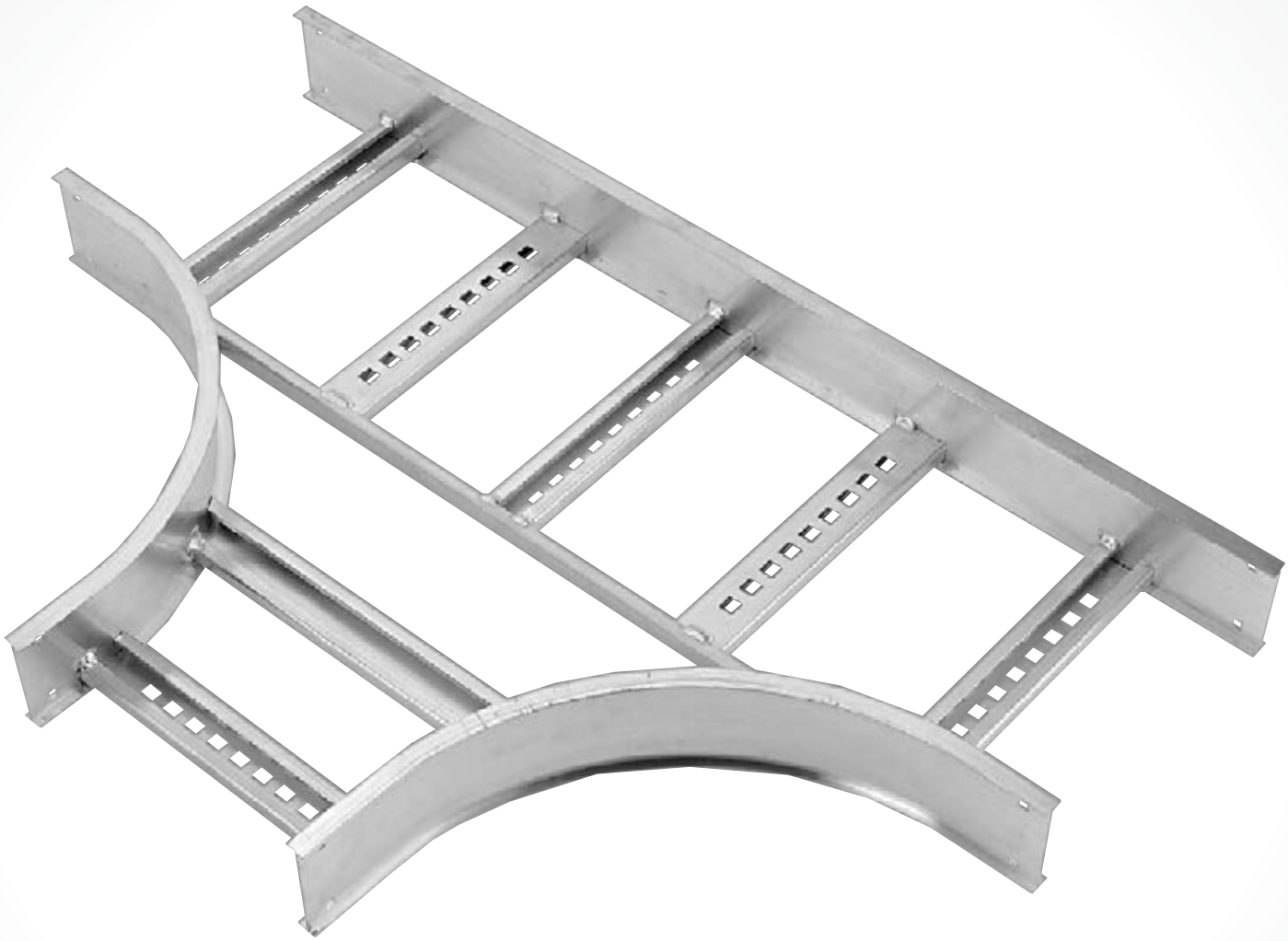
Load ratings
- 1.5 safety factor. All tray sections will support an additional 200 lb (90.7kg). concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

—
01



—
02

—
03



Metallic - Aluminum
Straight lengths

Tray bottom types Ladder, ventilated and solid trough

Ladder
Extra-wide aluminum rungs are welded to extruded aluminum I-beam side rails. Every second rung is reversed to allow for easy top or bottom mounting of cable ties and clamps. All edges and welds are rounded and smooth to prevent cable damage.

Ventilated*
A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plane area of the surface to support cables. The maximum open spacings between cable support surfaces of transverse elements do not exceed 102mm (4") in the direction parallel to the tray side rails (rung edge to rung edge).

Solid trough**
A fabricated structure consisting of a bottom without ventilation openings within separate longitudinal side rails.

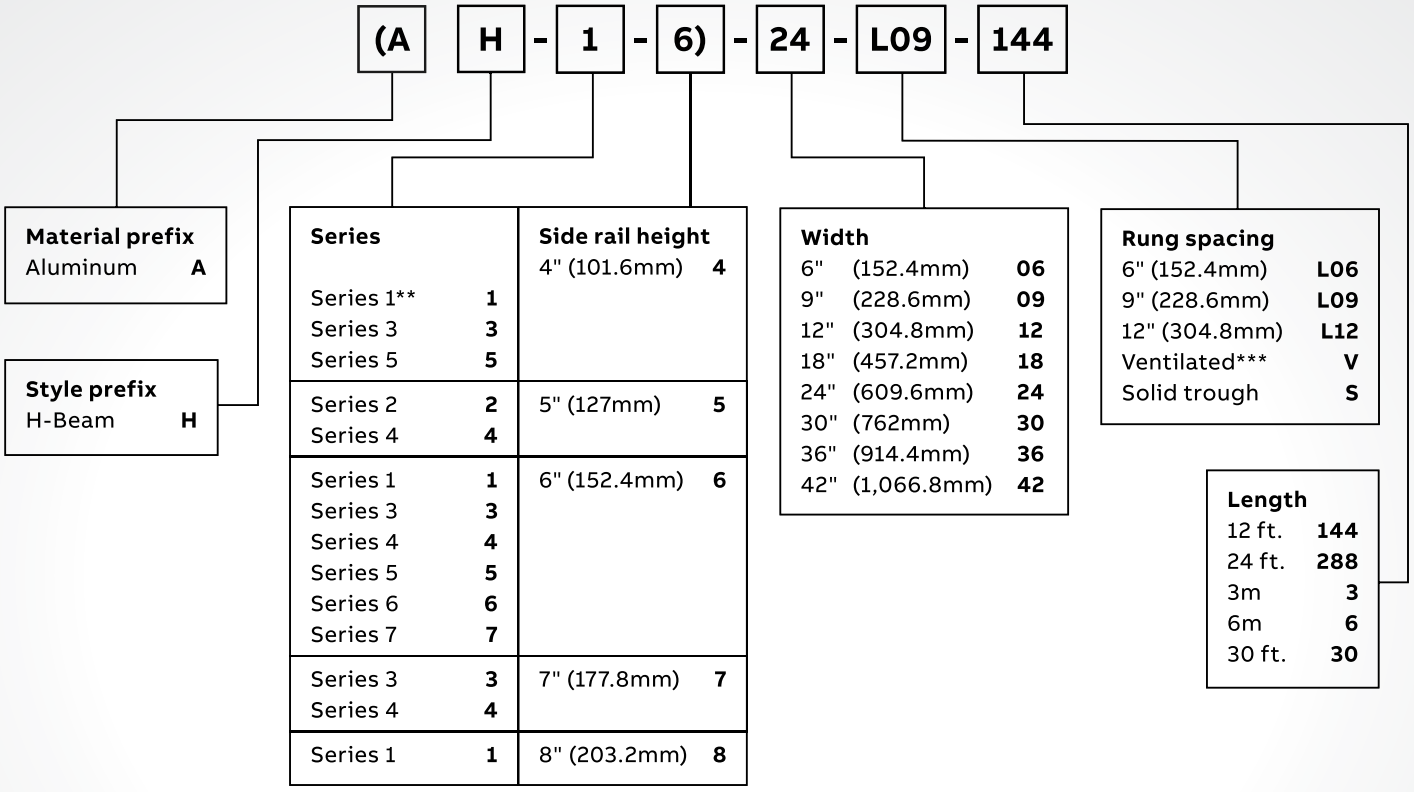
* NOTE: For load CSA Class C/3M, NEMA 8C or less, please see alternative ventilated series of cable tray called One-Piece found on pages 222 - 261 of the catalog.

** NOTE: Fast and easy snap-in splice plates are provided with each straight section.

Straight section number selection

How to create catalog numbers
Thomas & Betts has created a numbering system based on the order of selection criteria. For example, the first selection issue is the environment to which the cable tray will be subjected. This selection will lead to the best material for your application. For complete details on the cable tray selection process, see pages 22-51 in the technical section.

Methods
1. Select the material best suited to your environment. Refer to technical section page 24-29.
2. Determine the tray series using the NEMA/CSA load/span designations page 30-38, and sizing cable tray page 40.
3. Select nominal depth and width of tray based on cable loading. See “Sizing Cable Tray” pages 41-43.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.



Key		
**	=	Fittings not available for 8" (203.2mm)
***	=	For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages 222 - 261 of this catalog
†	=	For series 76, 47 and 18 only

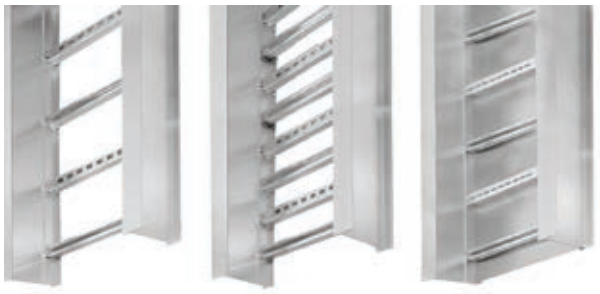
NOTE: The following special options are available.
To order, add the indicated suffix to the very end of the catalog number:

FO	=	Flange out	**UM**	=	Marine rung holes up
G	=	Ground holes (specify locations and size)	**RU**	=	Rung with square holes on top
H	=	Stainless steel type 316 hardware nuts and bolts	**FR**	=	Flat rung
MR	=	Marine rung alternated			

Contact your ABB representative for additional options.

Metallic - Aluminum straight lengths

4" (101.6mm) Straight sections / Series 1-4 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

4" Straight sections / Series 1-4 – Ladder, ventilated and solid trough

		Classifications	Support span ft. (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
AH1-4	Load (lb)/ft)	12B, 8C	230	191	122	85	–	–	–	–
	Load (kg)/m)		342.23	284.24	181.56	126.5	–	–	–	–
	Deflection (in)		0.260	0.682	1.066	1.535	–	–	–	–
	Deflection (mm)		6.6	17.32	27.08	38.99	–	–	–	–
	K factor		0.0011	0.0036	0.0087	0.018	–	–	–	–

Straight section number selection

(A) H 1 - 4) - 24 - L09 - 144

Material prefix
Aluminum **A**

Style prefix
H-Beam **H**

Series
Series 1** **1**

Side rail height
4" (101.6mm)

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated*** **V**
Solid trough **S**

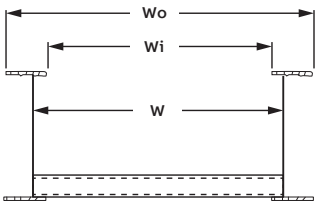
Length
12 ft **144**
24 ft **288**
3m **3**
6m **6**

** Series 1 is available in 12 ft. or less.

*** For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages 222 - 261 of this catalog.

For fittings, consult pages 70 - 135.

Dimensions

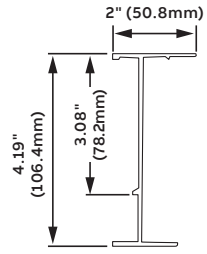


			AH1-4			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	6	152.4	8.86	225	4.86	123.4
	9	228.6	11.86	301.2	7.86	199.6
	12	304.8	14.86	377.4	10.86	275.8
	18	457.2	20.86	529.8	16.86	174.2
	24	609.6	26.86	682.2	22.86	580.6
	30	762	32.86	834.6	28.86	733
	36	914.4	38.86	987	34.86	885.4
	42	1,066.8	44.86	1,139.4	40.86	1,037.8

Technical specifications

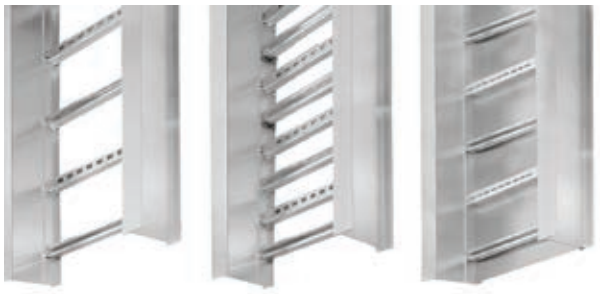
Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

					Classifications
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®
AH1-4 	**AH1-4**	Ix = 2.58"⁴ (1037.39cm⁴) Sx = 1.23"³ (20.16cm³) Area = 0.97"² (6.26cm²)	12B, 8C	D/3 m	UL cross sectional area: 0.60"² (3.87cm²)

Metallic - Aluminum straight lengths

4" (101.6mm) Straight sections / Series 3-4, 5-4 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

4" Straight sections / Series 3-4, 5-4 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
AH3-4	Load (lb)/ft)	12C, 16B	230	230	204	142	104	80	63	51
	Load (kg)/m)		342.28	342.28	303.59	211.32	154.77	119.05	93.75	75.9
	Deflection (in)		0.192	0.607	1.315	1.894	2.578	3.367	4.261	5.261
	Deflection (mm)		4.88	15.42	33.4	48.11	65.48	85.52	108.23	133.63
	K factor		0.0008	0.0026	0.0064	0.0134	0.025	0.043	0.068	0.103
AH5-4	Load (lb)/ft)	20B, 16C	230	230	230	230	192	147	116	94
	Load (kg)/m)		342.28	342.28	342.28	342.28	285.73	218.76	172.63	139.89
	Deflection (in)		0.126	0.398	0.972	2.015	3.113	4.066	5.147	6.354
	Deflection (mm)		3.2	10.11	24.69	51.18	79.07	103.28	130.74	161.39
	K factor		0.0005	0.0017	0.0042	0.0088	0.016	0.028	0.044	0.068

Straight section number selection

(A H 5 - 4) 24 - L09 - 144

Material prefix
Aluminum **A**

Style prefix
H-Beam **H**

Series
Series 3 **3**
Series 5 **5**

Side rail height
4" (101.6mm)

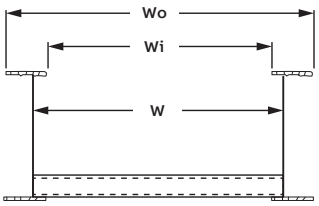
Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
12 ft **144**
24 ft **288**
3m **3**
6m **6**

For fittings, consult pages 70 - 135.

Dimensions

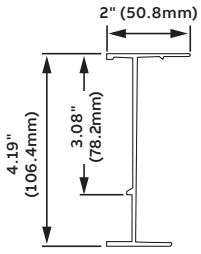
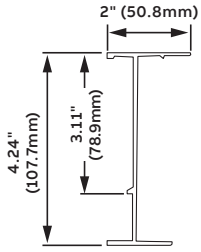


			AH3-4				AH5-4			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	6	152.4	8.86	225	4.86	123.4	8.86	225	4.86	123.4
	9	228.6	11.86	301.2	7.86	199.6	11.86	301.2	7.86	199.6
	12	304.8	14.86	377.4	10.86	275.8	14.86	377.4	10.86	275.8
	18	457.2	20.86	529.8	16.86	174.2	20.86	529.8	16.86	174.2
	24	609.6	26.86	682.2	22.86	580.6	26.86	682.2	22.86	580.6
	30	762	32.86	834.6	28.86	733	32.86	834.6	28.86	733
	36	914.4	38.86	987	34.86	885.4	38.86	987	34.86	885.4
	42	1,066.8	44.86	1,139.4	40.86	1,037.8	44.86	1,139.4	40.86	1,037.8

Technical specifications

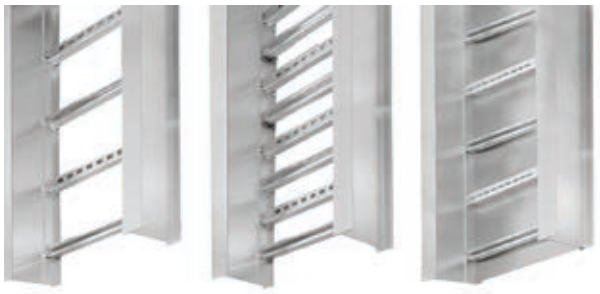
Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

	Series	Side rail design factors 1 pair	Classifications		
			NEMA	CSA	UL®
AH3-4 	**AH3-4**	Ix = 3.49"⁴ (145.26cm⁴) Sx = 1.64"³ (26.87cm³) Area = 1.328"² (8.57cm²)	12C, 16B	D/6 m	UL cross sectional area: 1.00"² (6.45cm²)
AH5-4 	**AH5-4**	Ix = 5.33"⁴ (221.85cm⁴) Sx = 2.36"³ (38.67cm³) Area = 1.93"² (12.45cm³)	20B, 16C	E/6 m	UL cross sectional area: 1.50"² (9.68cm²)

Metallic - Aluminum straight lengths

5" (127mm) Straight sections / Series 2-5, 4-5 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

5" Straight sections / Series 2-5, 4-5 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
AH2-5	Load (lb)/ft)	12C, 16B	230	230	200	139	102	78	62	50
	Load (kg)/m)		342.28	342.28	297.63	206.86	151.79	116.08	92.27	74.41
	Deflection (in)		0.125	0.395	0.838	1.206	1.642	2.144	2.714	3.351
	Deflection (mm)		3.18	10.03	21.29	30.63	41.71	54.46	68.94	85.12
	K factor		0.0005	0.0017	0.0042	0.0087	0.016	0.027	0.044	0.067
AH4-5	Load (lb)/ft)	20B	230	230	230	225	165	127	100	81
	Load (kg)/m)		342.28	342.28	342.28	334.84	245.55	189	148.82	120.54
	Deflection (in)		0.087	0.274	0.670	1.359	1.849	2.416	3.057	3.774
	Deflection (mm)		2.21	6.96	17.02	34.52	46.96	61.37	77.65	95.86
	K factor		0.0004	0.0012	0.0029	0.0060	0.0112	0.019	0.031	0.047

Straight section number selection

(A H 2 - 5) 24 - L09 - 144

Material prefix
Aluminum **A**

Style prefix
H-Beam **H**

Series
Series 2 **2**
Series 4 **4**

Side rail height
5" (127mm)

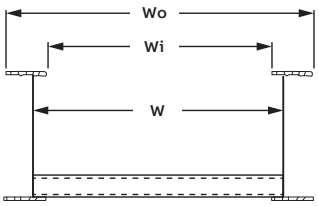
Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
12 ft **144**
24 ft **288**
3m **3**
6m **6**

For fittings, consult pages 70 - 135.

Dimensions

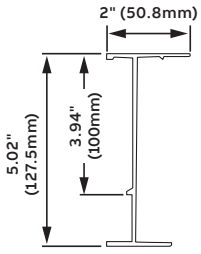
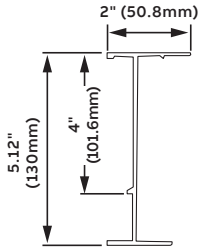


			AH2-5				AH4-5			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	6	152.4	8.86	225	4.86	123.4	8.86	225	4.86	123.4
	9	228.6	11.86	301.2	7.86	199.6	11.86	301.2	7.86	199.6
	12	304.8	14.86	377.4	10.86	275.8	14.86	377.4	10.86	275.8
	18	457.2	20.86	529.8	16.86	174.2	20.86	529.8	16.86	174.2
	24	609.6	26.86	682.2	22.86	580.6	26.86	682.2	22.86	580.6
	30	762	32.86	834.6	28.86	733	32.86	834.6	28.86	733
	36	914.4	38.86	987	34.86	885.4	38.86	987	34.86	885.4
	42	1,066.8	44.86	1,139.4	40.86	1,037.8	44.86	1,139.4	40.86	1,037.8

Technical specifications

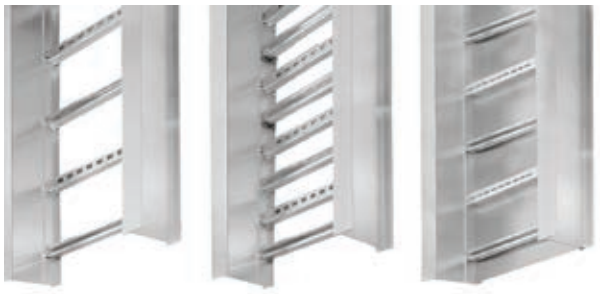
Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

	Series	Side rail design factors 1 pair	Classifications		
			NEMA	CSA	UL®
AH2-5 	**AH2-5**	Ix = 5.37"⁴ (223.52cm⁴) Sx = 2.02"³ (33.10cm³) Area = 1.38"² (8.90cm²)	12C, 16B	D/6 m	UL cross sectional area: 1.00"² (6.45cm²)
AH4-5 	**AH4-5**	Ix = 7.73"⁴ (321.75cm⁴) Sx = 2.92"³ (47.85cm³) Area = 1.94"² (12.52cm²)	20B	E/6 m	UL cross sectional area: 1.50"² (9.68cm²)

Metallic - Aluminum straight lengths

6" (152.4mm) Straight sections / Series 1-6, 3-6 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

6" Straight sections / Series 1-6, 3-6 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
AH1-6	Load (lb)/ft)	12C, 16B	230	230	204	142	104	80	63	51
	Load (kg)/m)		342.28	342.28	303.59	211.32	154.77	119.05	93.75	75.9
	Deflection (in)		0.077	0.244	0.527	0.760	1.034	1.350	1.709	2.110
	Deflection (mm)		1.96	6.2	13.39	19.30	26.26	34.29	43.41	53.6
	K factor		0.0003	0.0011	0.0026	0.0054	0.0099	0.017	0.027	0.041
AH3-6	Load (lb)/ft)	20B	230	230	230	222	163	125	99	80
	Load (kg)/m)		342.28	342.28	342.28	330.37	242.57	186.02	147.33	119.05
	Deflection (in)		0.052	0.166	0.404	0.81	1.103	1.44	1.823	2.25
	Deflection (mm)		1.32	4.22	10.26	20.57	28.02	36.58	46.3	57.15
	K factor		0.0002	0.0007	0.0018	0.0036	0.0068	0.0115	0.018	0.028

Straight section number selection

(A) H 1 - 6) 24 - L09 - 144

Material prefix
Aluminum **A**

Style prefix
H-Beam **H**

Series
Series 1 **2**
Series 3 **4**

Side rail height
6" (152.4mm)

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

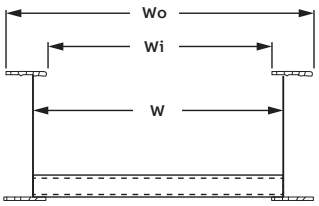
Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated*** **V**
Solid trough **S**

Length
12 ft **144**
24 ft **288**
3m **3**
6m **6**

*** For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages 222 - 261 of this catalog.

For fittings, consult pages 70 - 135.

Dimensions



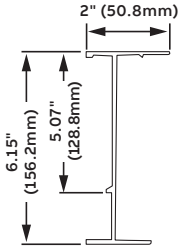
			AH1-6				AH3-6			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	6	152.4	8.86	225	4.86	123.4	8.86	225	4.86	123.4
	9	228.6	11.86	301.2	7.86	199.6	11.86	301.2	7.86	199.6
	12	304.8	14.86	377.4	10.86	275.8	14.86	377.4	10.86	275.8
	18	457.2	20.86	529.8	16.86	174.2	20.86	529.8	16.86	174.2
	24	609.6	26.86	682.2	22.86	580.6	26.86	682.2	22.86	580.6
	30	762	32.86	834.6	28.86	733	32.86	834.6	28.86	733
	36	914.4	38.86	987	34.86	885.4	38.86	987	34.86	885.4
	42	1,066.8	44.86	1,139.4	40.86	1,037.8	44.86	1,139.4	40.86	1,037.8

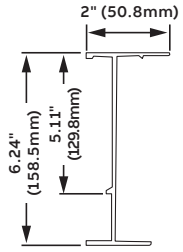
Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor*

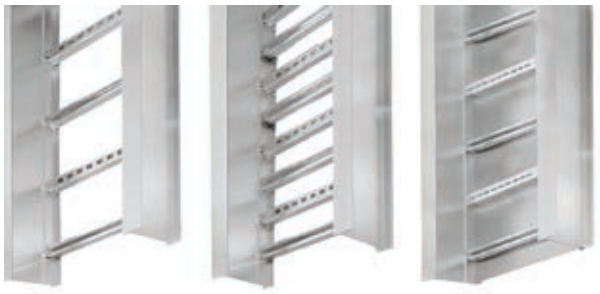
	Series	Side rail design factors 1 pair	Classifications		
			NEMA	CSA	UL®
AH1-6	**AH1-6**	Ix = 8.702"⁴ (362.2cm⁴) Sx = 2.706"³ (44.34cm³) Area = 1.55"² (10cm²)	12C, 16B	D/6 m	UL cross sectional area: 1.00"² (6.45cm²)
AH3-6	**AH3-6**	Ix = 12.79"⁴ (532.36cm⁴) Sx = 3.77"³ (61.78cm³) Area = 2.07"² (13.35cm²)	20B	E/6 m	UL cross sectional area: 2.00"² (9.68cm²)





Metallic - Aluminum straight lengths

6" (152.4mm) Straight sections / Series 4-6, 5-6, 6-6, 7-6 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

6" Straight sections / Series 4-6, 5-6, 6-6, 7-6 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)										
Series		NEMA	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)	22' (6.70m)	24' (7.32m)	26' (7.92m)	28' (8.53m)	30' (9.14m)
AH4-6	Load (lb)/ft)	20C	292	278	204	156	123	100	–	–	–	–	–
	Load (kg)/m)		434.54	413.71	303.59	232.15	183.04	148.82	–	–	–	–	–
	Deflection (in)		0.477	0.940	1.280	1.672	2.115	2.612	–	–	–	–	–
	Deflection (mm)		12.12	23.88	32.51	42.47	53.72	66.35	–	–	–	–	–
	K factor		0.0016	0.0034	0.0063	0.0107	0.017	0.026	–	–	–	–	–
AH5-6	Load (lb)/ft)	20C+	292	292	245	188	148	120	–	–	–	–	–
	Load (kg)/m)		434.54	434.54	364.60	279.78	220.25	178.58	–	–	–	–	–
	Deflection (in)		0.420	0.870	1.352	1.766	2.234	2.759	–	–	–	–	–
	Deflection (mm)		10.67	22.10	34.34	44.86	56.74	70.08	–	–	–	–	–
	K factor		0.0014	0.0030	0.0055	0.0094	0.0151	0.023	–	–	–	–	–
AH6-6	Load (lb)/ft)	20C+	292	292	292	258	204	165	126	106	91	78	68
	Load (kg)/m)		434.54	434.54	434.54	86.31	303.59	245.55	187.51	157.75	135.42	116.07	101.20
	Deflection (in)		0.348	0.723	1.339	2.016	2.552	3.151	3.536	4.208	4.938	5.727	6.575
	Deflection (mm)		8.84	18.36	34.01	51.21	64.82	80.04	89.81	106.88	125.43	145.47	167.01
	K factor		0.0012	0.0025	0.0046	0.0078	0.0125	0.019	0.028	0.040	0.055	0.073	0.097
AH7-6	Load (lb)/ft)	20C+	–	–	–	–	228	185	152	128	109	94	82
	Load (kg)/m)		–	–	–	–	339.30	275.31	226.2	190.49	162.21	139.89	122.03
	Deflection (in)		–	–	–	–	2.451	3.025	3.661	4.357	5.113	5.930	6.807
	Deflection (mm)		–	–	–	–	62.26	76.84	93	110.67	129.87	150.62	172.9
	K factor		–	–	–	–	0.0108	0.016	0.024	0.034	0.047	0.063	0.083

Straight section number selection

(A | H | 5 - 6) | 24 - L09 - 144

Material prefix
Aluminum **A**

Style prefix
H-Beam **H**

Series
Series 4 **4**
Series 5 **5**
Series 6 **6**
Series 7 **7**

Side rail height
6" (152.4mm)

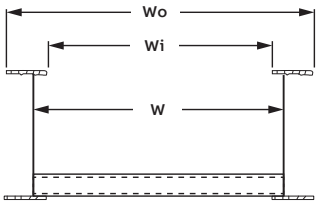
Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
12 ft **144**
24 ft **288**
3m **3**
6m **6**

For fittings, consult pages 70 - 135.

Dimensions



		AH4-6				AH5-6			
W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
6	152.4	8.86	225	4.86	123.4	8.86	225	4.86	123.4
9	228.6	11.86	301.2	7.86	199.6	11.86	301.2	7.86	199.6
12	304.8	14.86	377.4	10.86	275.8	14.86	377.4	10.86	275.8
18	457.2	20.86	529.8	16.86	174.2	20.86	529.8	16.86	174.2
24	609.6	26.86	682.2	22.86	580.6	26.86	682.2	22.86	580.6
30	762	32.86	834.6	28.86	733	32.86	834.6	28.86	733
36	914.4	38.86	987	34.86	885.4	38.86	987	34.86	885.4
42	1,066.8	44.86	1,139.4	40.86	1,037.8	44.86	1,139.4	40.86	1,037.8

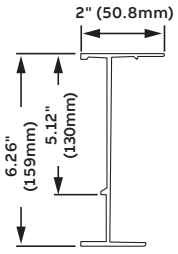
		AH6-6				AH7-6			
W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
6	152.4	8.86	225	4.86	123.4	8.86	225	4.86	123.4
9	228.6	11.86	301.2	7.86	199.6	11.86	301.2	7.86	199.6
12	304.8	14.86	377.4	10.86	275.8	14.86	377.4	10.86	275.8
18	457.2	20.86	529.8	16.86	174.2	20.86	529.8	16.86	174.2
24	609.6	26.86	682.2	22.86	580.6	26.86	682.2	22.86	580.6
30	762	32.86	834.6	28.86	733	32.86	834.6	28.86	733
36	914.4	38.86	987	34.86	885.4	38.86	987	34.86	885.4
42	1,066.8	44.86	1,139.4	40.86	1,037.8	44.86	1,139.4	40.86	1,037.8

Technical specifications

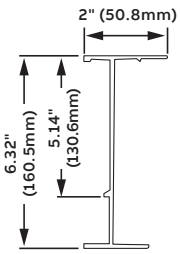
Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

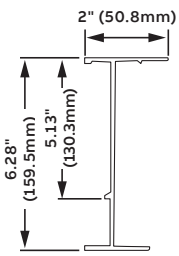
AH4-6



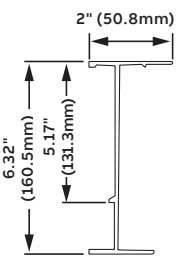
AH5-6



AH6-6



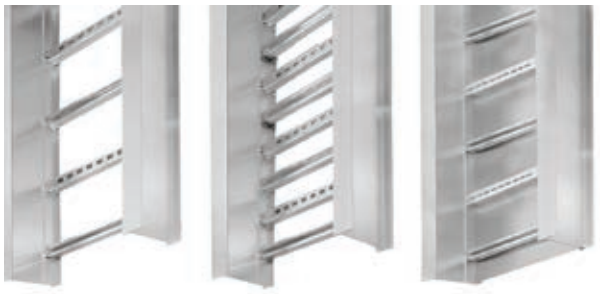
AH7-6



Series	Side rail design factors 1 pair	Classifications NEMA	CSA	UL®
AH3-7	Ix = 13.78"⁴ (573.57cm⁴) Sx = 4.05"³ (66.37cm³) Area = 2.32"² (14.97cm²)	20C	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)
AH4-7	Ix = 15.66"⁴ (651.82cm⁴) Sx = 4.64"³ (76.04cm³) Area = 2.68"² (17.29cm²)	20C+	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)
AH4-7	Ix = 18.85"⁴ (784.60cm⁴) Sx = 5.53"³ (90.62cm³) Area = 3.25"² (20.97cm²)	20C+	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)
AH1-8	Ix = 21.96"⁴ (914.04cm²) Sx = 6.31"³ (103.40cm²) Area = 3.82"² (24.65cm²)	20C+	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)

Metallic - Aluminum straight lengths

7/8" (177.8/203.2mm) Straight sections / Series 3-7, 4-7, 1-8 – Ladder, ventilated and solid trough



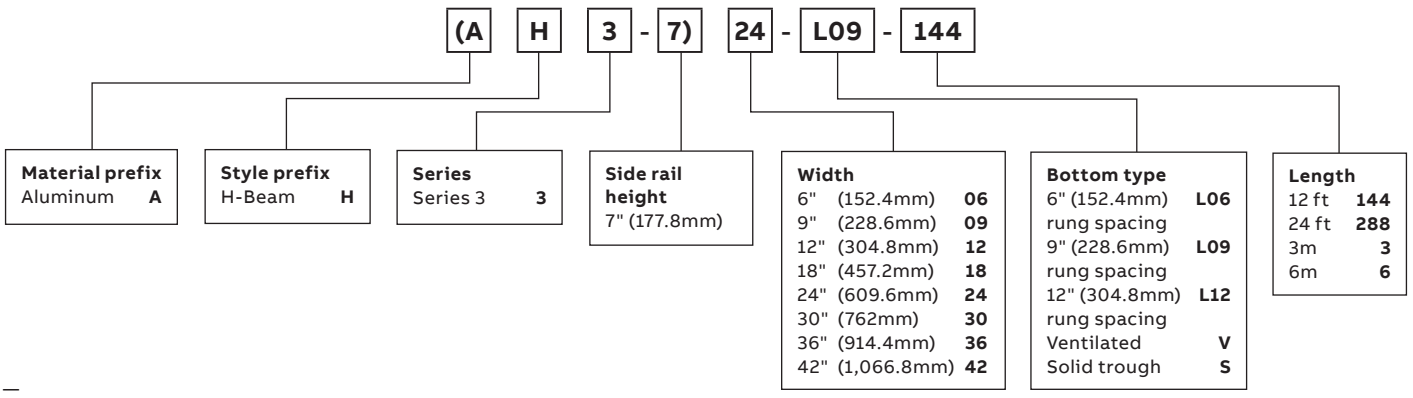
Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

7" and 8" Straight sections / Series 3-7, 4-7, 1-8 – Ladder, ventilated and solid trough

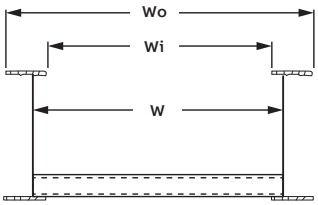
		Classifications	Support span ft (m)										
Series		NEMA	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)	22' (6.70m)	24' (7.32m)	26' (7.92m)	28' (8.53m)	30' (9.14m)
AH3-7	Load (lb)/ft)	20C	292	292	292	231	183	148	97	81	–	–	–
	Load (kg)/m)		434.55	434.55	434.55	343.77	272.33	220.25	144.35	120.54	–	–	–
	Deflection (in)		0.259	0.536	0.993	1.342	1.698	2.097	2.009	2.391	–	–	–
	Deflection (mm)		6.58	13.61	25.22	34.09	43.13	53.26	51.03	60.73	–	–	–
	K factor		0.0009	0.0018	0.0034	0.0058	0.0093	0.0142	0.021	0.029	–	–	–
AH4-7	Load (lb)/ft)	20C+	–	–	–	–	281	227	188	158	134	116	101
	Load (kg)/m)		–	–	–	–	418.17	337.81	279.78	235.13	199.41	172.63	150.31
	Deflection (in)		–	–	–	–	1.800	2.222	2.689	3.200	3.756	4.356	5.000
	Deflection (mm)		–	–	–	–	45.72	56.44	68.3	81.28	95.4	110.64	127
	K factor		–	–	–	–	0.0064	0.0098	0.0143	0.020	0.028	0.038	0.050
AH1-8	Load (lb)/ft)	20C+	–	–	–	–	358	358	353	297	253	218	190
	Load (kg)/m)		–	–	–	–	532.8	532.8	525.3	442.0	376.5	324.4	282.8
	Deflection (in)		–	–	–	–	1.449	2.208	3.191	3.797	4.457	5.169	5.933
	Deflection (mm)		–	–	–	–	36.80	56.08	81.05	96.44	113.21	131.29	150.7
	K factor		–	–	–	–	0.0040	0.0062	0.0090	0.0128	0.018	0.024	0.031

Straight section number selection



For fittings, consult pages 70 - 135.

Dimensions



		AH3-7				AH4-7			
W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
6	152.4	8.86	225	4.86	123.4	8.86	225	4.86	123.4
9	228.6	11.86	301.2	7.86	199.6	11.86	301.2	7.86	199.6
12	304.8	14.86	377.4	10.86	275.8	14.86	377.4	10.86	275.8
18	457.2	20.86	529.8	16.86	174.2	20.86	529.8	16.86	174.2
24	609.6	26.86	682.2	22.86	580.6	26.86	682.2	22.86	580.6
30	762	32.86	834.6	28.86	733	32.86	834.6	28.86	733
36	914.4	38.86	987	34.86	885.4	38.86	987	34.86	885.4
42	1,066.8	44.86	1,139.4	40.86	1,037.8	44.86	1,139.4	40.86	1,037.8

		AH1-8				AH7-6			
W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
6	152.4	8.86	225	4.86	123.4	8.86	225	4.86	123.4
9	228.6	11.86	301.2	7.86	199.6	11.86	301.2	7.86	199.6
12	304.8	14.86	377.4	10.86	275.8	14.86	377.4	10.86	275.8
18	457.2	20.86	529.8	16.86	174.2	20.86	529.8	16.86	174.2
24	609.6	26.86	682.2	22.86	580.6	26.86	682.2	22.86	580.6
30	762	32.86	834.6	28.86	733	32.86	834.6	28.86	733
36	914.4	38.86	987	34.86	885.4	38.86	987	34.86	885.4
42	1,066.8	44.86	1,139.4	40.86	1,037.8	44.86	1,139.4	40.86	1,037.8

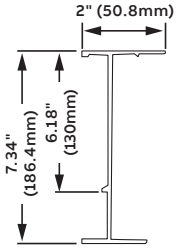
Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

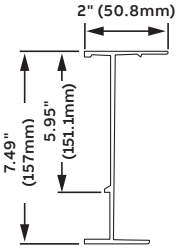
Load ratings: 1.5 safety factor

		Classifications		
Series	Side rail design factors 1 pair	NEMA	CSA	UL®
AH3-7	Ix = 25.41"⁴ (1057.6cm⁴ Sx = 6.46"³ (105.86cm³) Area = 3.30"² (21.29cm²)	20C+	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)
AH4-7	Ix = 36.81"⁴ (1532.2cm⁴) Sx = 9.08"³ (148.88cm³) Area = 4.63"² (29.87cm²)	20C+	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)
AH1-8	Ix = 58.36"⁴ (2429.1cm⁴) Sx = 13.37"³ (219.10cm³) Area = 5.86"² (37.81cm²)	20C+	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)

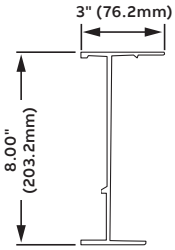
AH3-7



AH4-7

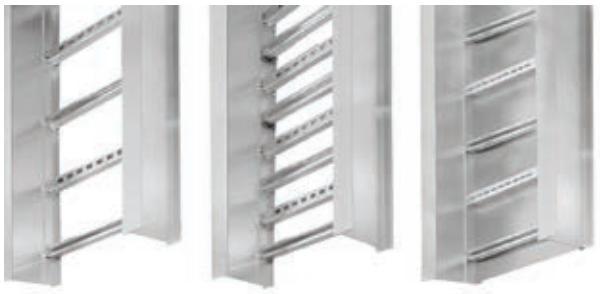


AH1-8



Metallic - Aluminum straight lengths

8" (203.2mm) Straight sections / Series 1-8 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 36" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

8" Straight sections / Series 1-8 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)										
Series		**NEMA**	**20' (6.10m)**	**22' (6.70m)**	**24' (7.32m)**	**26' (7.92m)**	**28' (8.53m)**	**30' (9.14m)**	**32' (9.75m)**	**34' (10.36m)**	**36' (10.97m)**	**38' (11.58m)**	**40' (12.19m)**
AH1-8	**Load (lb)/ft)**	20C+	428	353	297	253	218	190	167	148	132	118	112
	Load (kg)/m)		636.9	525.3	442.0	376.5	324.4	282.8	248.5	220.2	196.4	175.6	166.7
	Deflection (in)		2.637	3.191	3.797	4.457	5.169	5.933	6.751	7.625	8.548	9.486	11.054
	Deflection (mm)		66.98	81.05	96.44	113.21	131.29	150.7	171.48	193.68	217.12	240.94	280.77
	K factor		0.0062	0.0090	0.0128	0.018	0.024	0.031	0.0404	0.0515	0.0648	0.0804	0.0987

Please refer to the technical bulletin for additional loading and deflection information for widths less than 36 inches.
Load ratings decrease at narrow widths. The technical bulletin can be accessed on our resource page.

Straight section number selection

(A H 3 - 8) 24 - L09 - 144

Material prefix
Aluminum **A**

Style prefix
H-Beam **H**

Series
Series 3 **1**

Side rail height
8" (203.2mm)

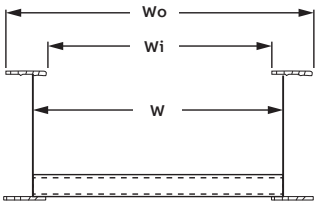
Width
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**

Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
40ft **480**
12 ft **144**
24 ft **288**
3m **3**
6m **6**

For fittings, consult pages 70 - 135.

Dimensions



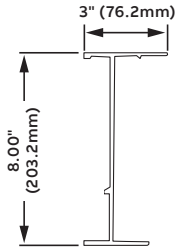
			AH--8			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	12	304.8	14.86	377.4	10.86	275.8
	18	457.2	20.86	529.8	16.86	174.2
	24	609.6	26.86	682.2	22.86	580.6
	30	762	32.86	834.6	28.86	733
	36	914.4	38.86	987	34.86	885.4

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

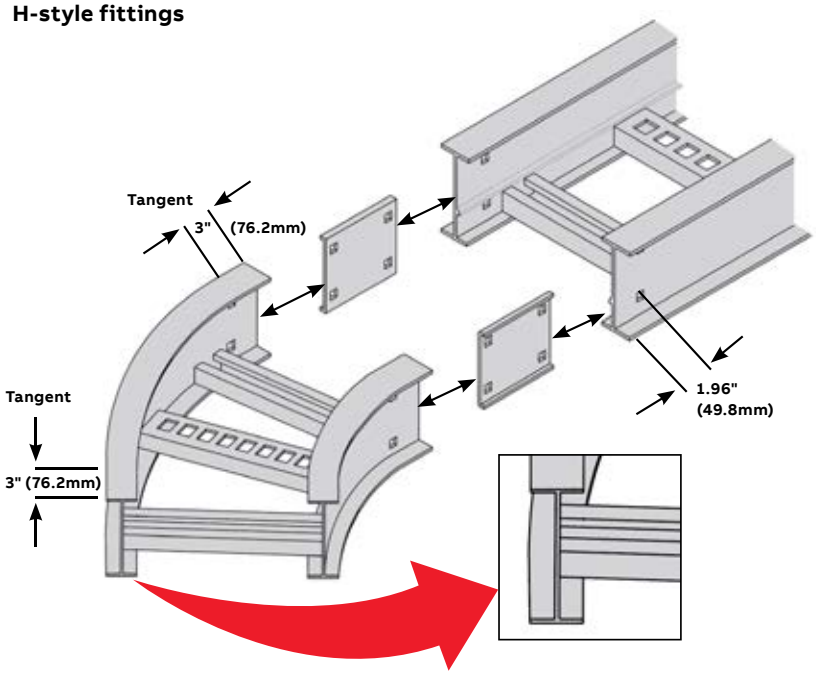
			Classifications		
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®
AH1-8	**AH1-8**	Ix = 58.36"⁴ (2429.1cm⁴) Sx = 13.37"³ (219.10cm³) Area = 5.86"² (37.81cm²)	20C+	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)



Metallic - Aluminum

Fittings - Explaining the fitting styles

H-style fittings



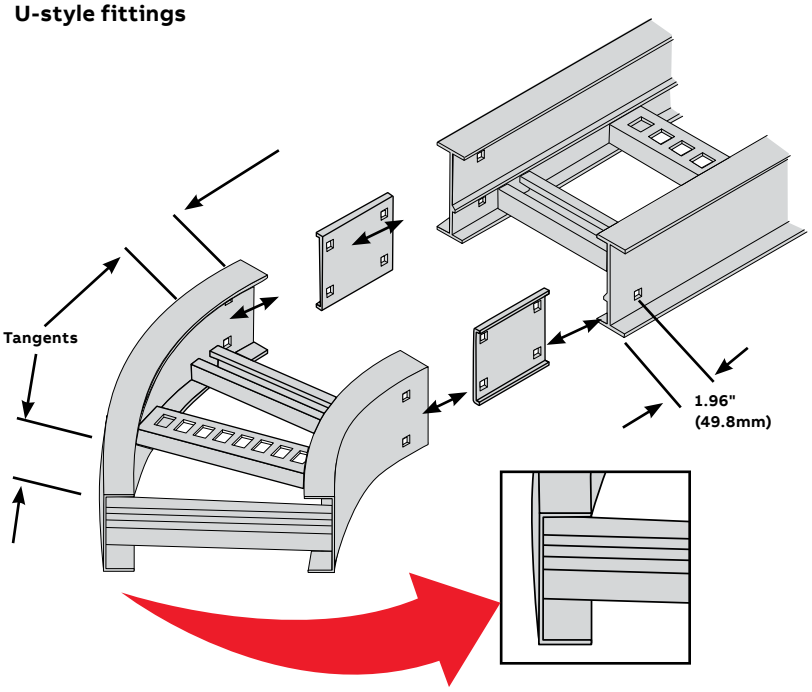
H-style

H-style fittings constructed with side rail having inner and outer flanges (H-beam).*

Features and benefits

- Improved system rigidity
- Improved aesthetics and customer appeal
- Easy to install
- Easy-to-align straights and fittings
- Splice plate holds components together while hardware is inserted
- Premium design
- 3" (76.2mm) tangents on fittings
- 7" (177.8mm) length snap-in splice plate

U-style fittings



U-style

U-style fittings constructed with side rail flanges on the inside only (U-beam).*

Features and benefits

- U-style and H-style are interchangeable
- Economical & functional design
- Easy to install
- Occupies less space in areas where space is restrained
- Easy-to-align straights
- Splice plate holds components together while hardware is inserted
- Lighter fittings are easy to handle
- 7" (177.8mm) length snap-in splice plate

* NOTE: T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Horizontal fittings selection

*NOTE: The U-style and H-style systems are interchangeable.

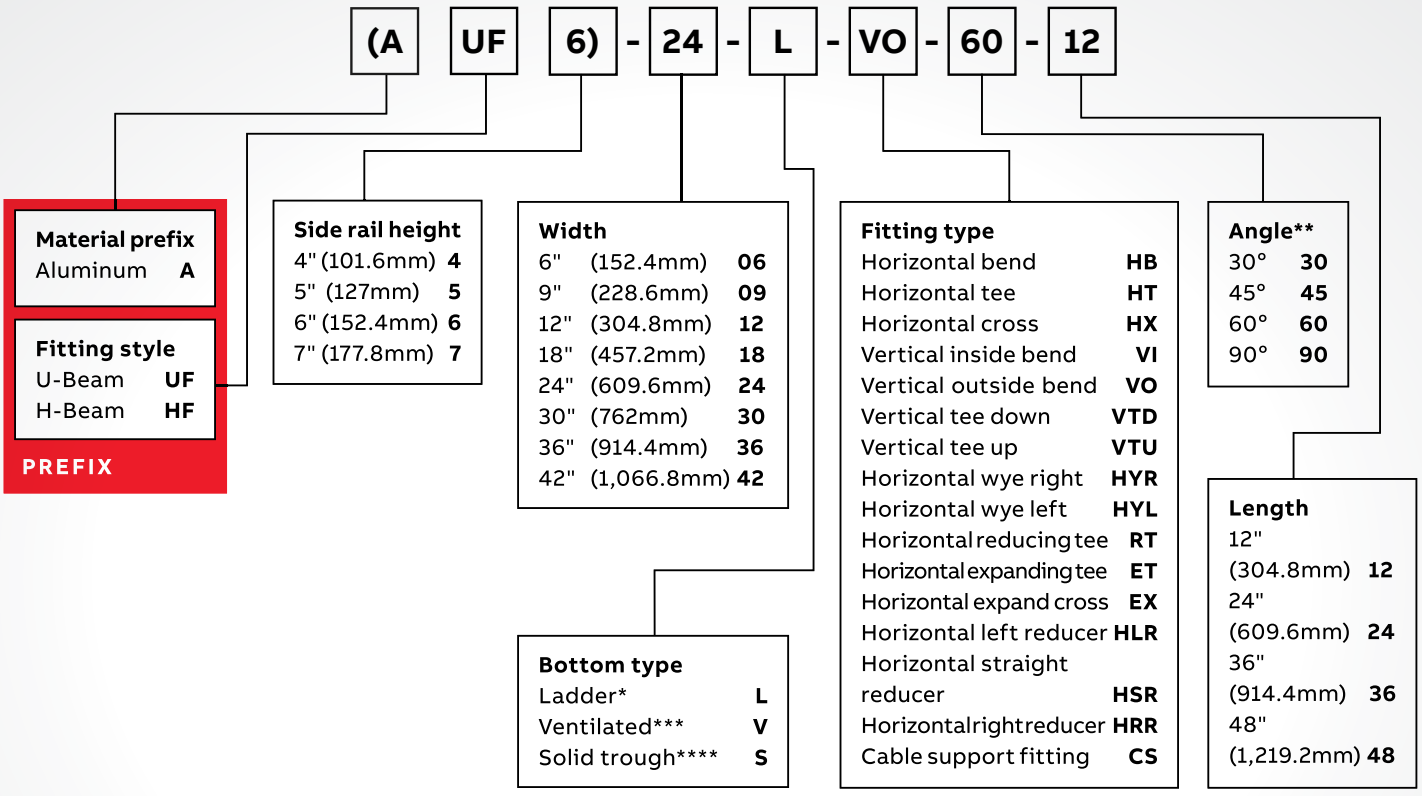
Fittings in a cable tray system are required to change cable routing direction and to join straight sections and other fittings. This step of the cable tray selection process requires that the specifier chooses between two distinct styles, U and H.*

H-style fitting

- An H-shaped extrusion forms the fitting side rail.
- H-style fittings utilize a 7" (177.8mm) splice plate and the fittings have 3" (76.2mm) tangents at the extremities.
- This style offers enhanced aesthetics to the end user and increased system rigidity.

U-style fitting

- A U-shaped extrusion forms the fitting side rail.
- U-style fittings utilize a 7" (177.8mm) splice plate and the fittings have tangents at the extremities.
- This style offers maximum quality versus cost ratios of the installation.



Key

**	=	Angle is required for HB, VI, VO only
†	=	Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR
*	=	Manufactured with 9" (228.6mm) rung spacing measured at the center line of fitting
***	=	Manufactured with 4" (101.6mm) edge to edge rung spacing measured at the center line of fitting
****	=	Manufactured with flat sheet inserted under rungs with 9" (228.6mm) rung spacing measured at the center line of fitting

NOTE: The following special options are available.
To order, add the indicated suffix to the very end of the catalog number:

FO	=	Flange out
G	=	Ground holes (specify locations and size)
H	=	Stainless steel type 316 hardware nuts and bolts
MR	=	Marine rung alternated
UM	=	Marine rung holes up
RU	=	Rung with square holes on top
FR	=	Flat rung

Contact your ABB representative for additional options.

Metallic - Aluminum horizontal fittings

H & U-style Horizontal fittings selection guide - Horizontal bends

01 **H-style**
90° Horizontal bend
See page 74

02 **H-style**
60° Horizontal bend
See page 75

03 **H-style**
45° Horizontal bend
See page 76

04 **H-style**
30° Horizontal bend
See page 77

05 **U-style**
90° Horizontal bend
See page 102

06 **U-style**
60° Horizontal bend
See page 103

07 **U-style**
45° Horizontal bend
See page 104

08 **U-style**
30° Horizontal bend
See page 103

01

05

02

06

03

07

04

08

H = H-style

U = U-style

Metallic - Aluminum horizontal fittings

H & U-style Horizontal fittings selection guide - Tees & crosses

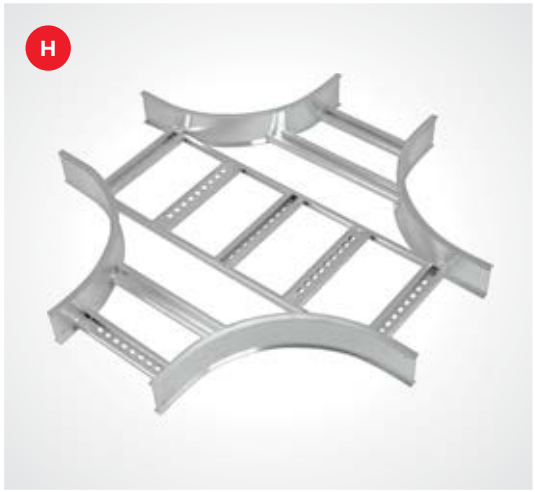
H

01

U

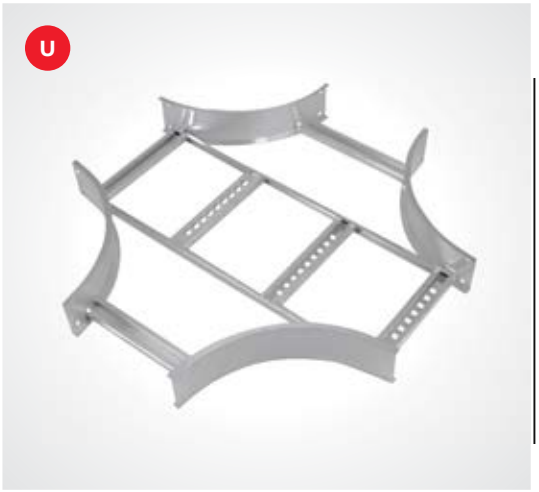
04

H



02

U

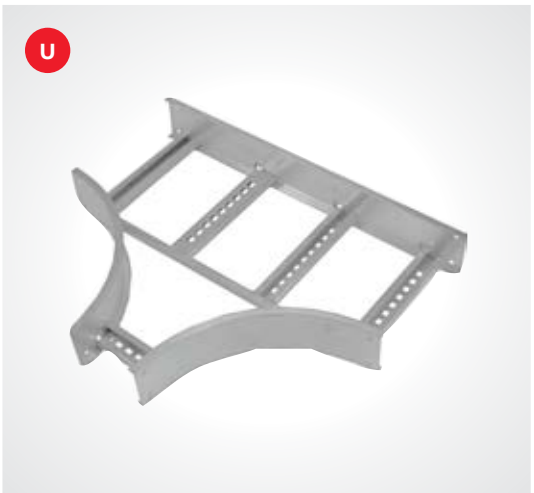


05

H

03

U



06

H = H-style

U = U-style

Metallic - Aluminum horizontal fittings

H & U-style Horizontal fittings selection guide - Tees & crosses *(continued)*

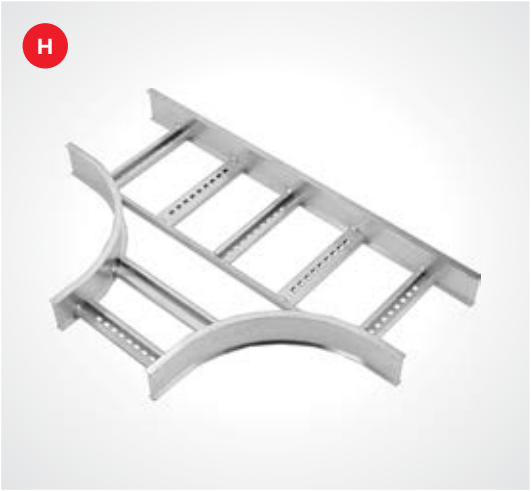
01 **H-style**
Horizontal expanding tee
See page 82

02 **H-style**
Horizontal expanding cross
See page 84

03 **U-style**
Horizontal expanding tee
See page 110

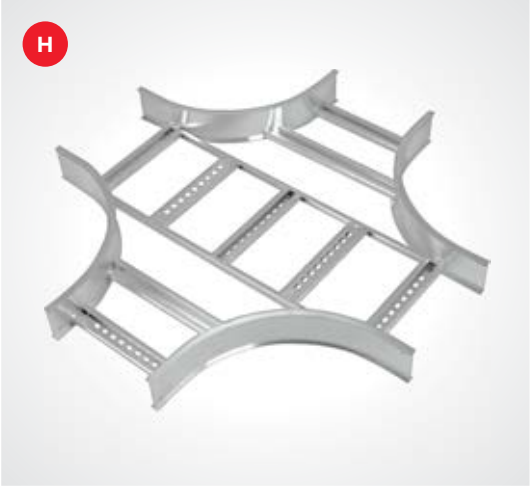
04 **U-style**
Horizontal expanding cross
See page 112

01

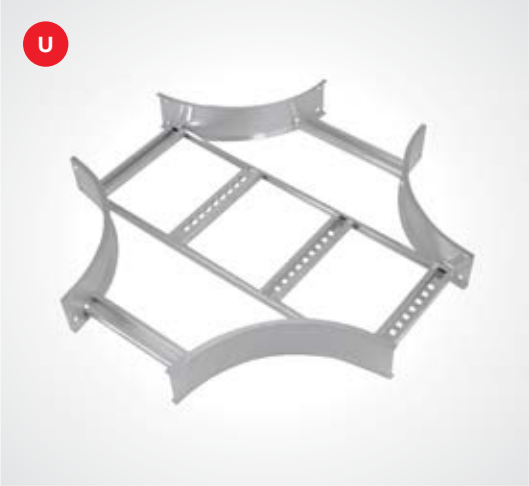


03

02



04



H = H-style

U = U-style

Metallic - Aluminum vertical fittings

H & U-style Vertical fittings selection guide - Reducers & wyes

01 **H-style**
Offset reducer right
See page 86

02 **H-style**
Reducer straight
See page 86

03 **H-style**
Offset reducer left
See page 86

04 **H-style**
Offset reducer right
See page 86

05 **U-style**
Reducer straight
See page 114

06 **U-style**
Offset reducer left
See page 114

07 **H-style**
Left-hand wye
See page 87

08 **H-style**
Right-hand wye
See page 87

09 **U-style**
Left-hand wye
See page 89

10 **U-style**
Right-hand wye
See page 89

01

02

03

04

05

06

07

08

09

10

H = H-style

U = U-style

Metallic - Aluminum vertical fittings

H & U-style Vertical fittings selection guide - Vertical bends

01 **H-style**
90° Outside vertical bend
See page 88

02 **H-style**
90° Inside vertical bend
See page 88

03 **H-style**
60° Outside vertical bend
See page 90

04 **H-style**
60° Inside vertical bend
See page 90

05 **U-style**
90° Outside vertical bend
See page 116

06 **U-style**
90° Inside vertical bend
See page 116

07 **U-style**
60° Outside vertical bend
See page 118

08 **U-style**
60° Inside vertical bend
See page 118

H = H-style

U = U-style

01

05

02

06

03

07

04

08

01 **H-style**
45° Outside vertical bend
See page 92

02 **H-style**
45° Inside vertical bend
See page 92

03 **H-style**
30° Outside vertical bend
See page 94

04 **H-style**
30° Inside vertical bend
See page 94

05 **U-style**
45° Outside vertical bend
See page 120

06 **U-style**
45° Inside vertical bend
See page 120

07 **U-style**
30° Outside vertical bend
See page 122

08 **U-style**
30° Inside vertical bend
See page 122

H

01

U

05

H

02

U

06

H

03

U

07

H

04

U

08

Metallic - Aluminum vertical fittings

H & U-style Vertical fittings selection guide - Vertical tees up/down

01 **H-style**
Vertical tee up
See page 96

02 **H-style**
Vertical tee down
See page 96

03 **U-style**
Vertical tee up
See page 124

04 **U-style**
Vertical tee down
See page 124

01

03

02

04

H = H-style

U = U-style

Metallic - Aluminum vertical fittings

H & U-style Vertical fittings selection guide - Cable supports

01 **H-style**
Cable support
See page 98

02 **U-style**
Cable support
See page 126

01

02

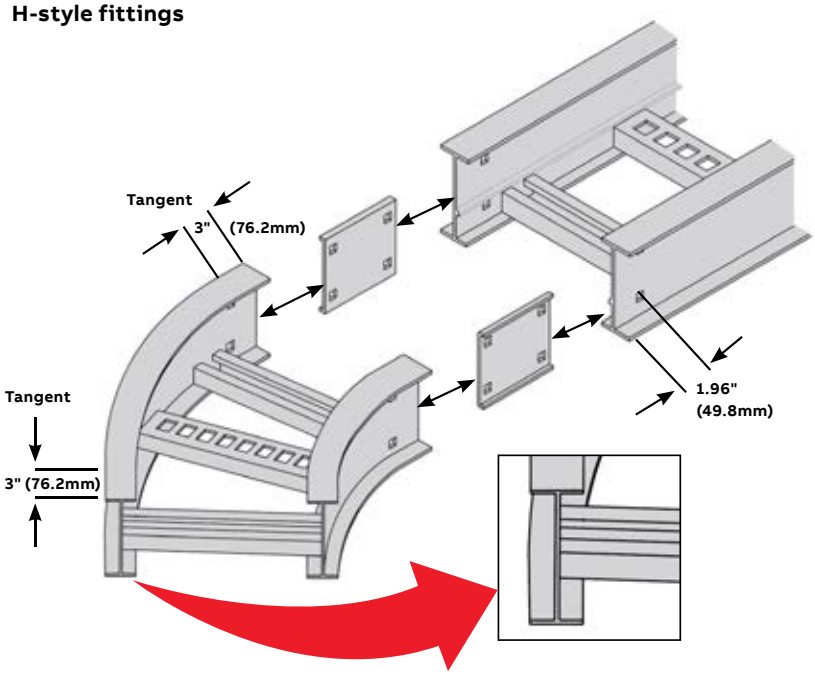
H = H-style

U = U-style

Metallic - Aluminum

H-style horizontal bend fittings

H-style fittings



H-style

H-style fittings constructed with side rail having inner and outer flanges (H-beam).*

Features and benefits

- Improved system rigidity
- Improved aesthetics and customer appeal
- Easy to install
- Easy-to-align straights and fittings
- Splice plate holds components together while hardware is inserted
- Premium design
- 3" (76.2mm) tangents on fittings
- 7" (177.8mm) length snap-in splice plate

* NOTE: T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Horizontal fittings selection

*NOTE: The U-style and H-style systems are interchangeable.

How to create catalogue numbers
Fitting part numbers are based on a range of selection criteria, dependent on the type of fitting and the role undertaken in the cable ladder system.

Over the following pages, the selection criteria for each fitting type is established in table form.

Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown. Images of fittings are provided to assist with selection.

H-style fitting
- An H-shaped extrusion forms the fitting side rail.
- H-style fittings utilize a 7" (177.8mm) splice plate and the fittings have 3" (76.2mm) tangents at the extremities.
- This style offers enhanced aesthetics to the end user and increased system rigidity.

Method
1. Material type
2. Siderail height & ladder width(s)
3. Bottom type and fitting type
4. Angle
5. Nominal radius

(A HF 6) - 24 - L - VO - 60 - 12

Material prefix
Aluminum **A**

Fitting style
H-Beam **HF**

Side rail height
4" (101.6mm) **4**
5" (127mm) **5**
6" (152.4mm) **6**
7" (177.8mm) **7**

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

Bottom type
Ladder* **L**
Ventilated*** **V**
Solid trough**** **S**

Fitting type
Horizontal bend **HB**
Horizontal tee **HT**
Horizontal cross **HX**
Vertical inside bend **VI**
Vertical outside bend **VO**
Vertical tee down **VTD**
Vertical tee up **VTU**
Horizontal wye right **HYR**
Horizontal wye left **HYL**
Horizontal reducing tee **RT**
Horizontal expanding tee **ET**
Horizontal expand cross **EX**
Horizontal left reducer **HLR**
Horizontal straight reducer **HSR**
Horizontal right reducer **HRR**
Cable support fitting **CS**

Angle**
30° **30**
45° **45**
60° **60**
90° **90**

Length
12" (304.8mm) **12**
24" (609.6mm) **24**
36" (914.4mm) **36**
48" (1,219.2mm) **48**

Key

**	=	Angle is required for HB, VI, VO only
†	=	Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR
*	=	Manufactured with 9" (228.6mm) rung spacing measured at the center line of fitting
***	=	Manufactured with 4" (101.6mm) edge to edge rung spacing measured at the center line of fitting
****	=	Manufactured with flat sheet inserted under rungs with 9" (228.6mm) rung spacing measured at the center line of fitting

NOTE: The following special options are available.
To order, add the indicated suffix to the very end of the catalog number:

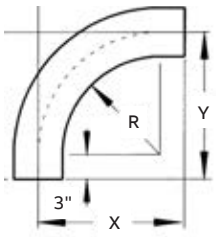
FO	=	Flange out
G	=	Ground holes (specify locations and size)
H	=	Stainless steel type 316 hardware nuts and bolts
MR	=	Marine rung alternated
UM	=	Marine rung holes up
RU	=	Rung with square holes on top
FR	=	Flat rung

Contact your ABB representative for additional options.

Metallic - Aluminum fittings

90°/60° H-style horizontal bend fittings

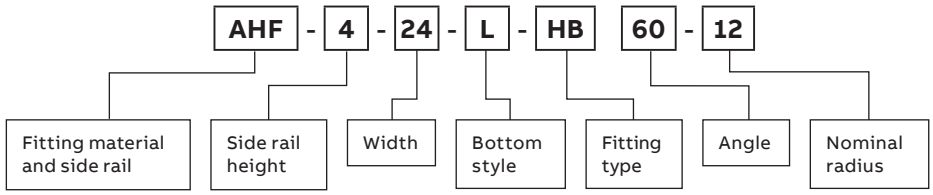
90° Horizontal bend – H-style



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-HB90-12	18	457.20	18	457.20
		9	228.6	AHF(†)-09-(*)-HB90-12	19½	495.30	19½	495.30
		12	304.8	AHF(†)-12-(*)-HB90-12	21	533.40	21	533.40
		18	457.2	AHF(†)-18-(*)-HB90-12	24	609.60	24	609.60
		24	609.6	AHF(†)-24-(*)-HB90-12	27	685.80	27	685.80
		30	762	AHF(†)-30-(*)-HB90-12	30	762.00	30	762.00
		36	914.4	AHF(†)-36-(*)-HB90-12	33	838.20	33	838.20
		42	1,066.8	AHF(†)-42-(*)-HB90-12	36	914.40	36	914.40
24	609.6	6	152.4	AHF(†)-06-(*)-HB90-24	30	762.00	30	762.00
		9	228.6	AHF(†)-09-(*)-HB90-24	31½	800.10	31½	800.10
		12	304.8	AHF(†)-12-(*)-HB90-24	33	838.20	33	838.20
		18	457.2	AHF(†)-18-(*)-HB90-24	36	914.40	36	914.40
		24	609.6	AHF(†)-24-(*)-HB90-24	39	990.60	39	990.60
		30	762	AHF(†)-30-(*)-HB90-24	42	1066.80	42	1066.80
		36	914.4	AHF(†)-36-(*)-HB90-24	45	1143.00	45	1143.00
		42	1,066.8	AHF(†)-42-(*)-HB90-24	48	1219.20	48	1219.20
36	914.4	6	152.4	AHF(†)-06-(*)-HB90-36	42	1066.80	42	1066.80
		9	228.6	AHF(†)-09-(*)-HB90-36	43½	1104.90	43½	1104.90
		12	304.8	AHF(†)-12-(*)-HB90-36	45	1143.00	45	1143.00
		18	457.2	AHF(†)-18-(*)-HB90-36	48	1219.20	48	1219.20
		24	609.6	AHF(†)-24-(*)-HB90-36	54	1371.60	54	1371.60
		30	762	AHF(†)-30-(*)-HB90-36	55½	1409.70	55½	1409.70
		36	914.4	AHF(†)-36-(*)-HB90-36	57	1447.80	57	1447.80
		42	1,066.8	AHF(†)-42-(*)-HB90-36	60	1524.00	60	1524.00
48	1,219.2	6	152.4	AHF(†)-06-(*)-HB90-48	54	1371.60	54	1371.60
		9	228.6	AHF(†)-09-(*)-HB90-48	55½	1409.70	55½	1409.70
		12	304.8	AHF(†)-12-(*)-HB90-48	57	1447.80	57	1447.80
		18	457.2	AHF(†)-18-(*)-HB90-48	60	1524.00	60	1524.00
		24	609.6	AHF(†)-24-(*)-HB90-48	63	1600.20	63	1600.20
		30	762	AHF(†)-30-(*)-HB90-48	66	1676.40	66	1676.40
		36	914.4	AHF(†)-36-(*)-HB90-48	69	1752.60	69	1752.60
		42	1,066.8	AHF(†)-42-(*)-HB90-48	72	1828.80	72	1828.80

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

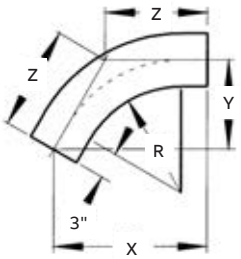
Fitting number selection



SECTION 5

—

60° Horizontal bend – H-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-HB60-12	17½	368.30	10⅛	257.18	11¹¹⁄₁₆	296.86
		9	228.6	AHF(†)-09-(*)-HB60-12	18¹³⁄₁₆	477.84	10⅞	276.23	12½	317.50
		12	304.8	AHF(†)-12-(*)-HB60-12	20¹⁄₁₆	509.59	11⅝	295.28	13⅜	339.73
		18	457.2	AHF(†)-18-(*)-HB60-12	22¹¹⁄₁₆	576.26	13⅛	333.38	15⅛	384.18
		24	609.6	AHF(†)-24-(*)-HB60-12	25⁵⁄₁₆	642.94	14⅝	371.48	16⅞	428.63
		30	762	AHF(†)-30-(*)-HB60-12	27⅞	708.03	16⅛	409.58	18⁹⁄₁₆	471.49
		36	914.4	AHF(†)-36-(*)-HB60-12	30½	774.70	17⅝	447.68	20⁵⁄₁₆	515.94
		42	1,066.8	AHF(†)-42-(*)-HB60-12	33¹⁄₁₆	839.79	19⅛	485.78	22¹⁄₁₆	560.39
24	609.6	6	152.4	AHF(†)-06-(*)-HB60-24	27⅞	708.03	16⅛	409.58	18⁹⁄₁₆	471.49
		9	228.6	AHF(†)-09-(*)-HB60-24	29³⁄₁₆	741.36	16⅞	428.63	19⁷⁄₁₆	493.71
		12	304.8	AHF(†)-12-(*)-HB60-24	30½	774.70	17⅝	447.68	20⁵⁄₁₆	515.94
		18	457.2	AHF(†)-18-(*)-HB60-24	33¹⁄₁₆	839.79	19⅛	485.78	22¹⁄₁₆	560.39
		24	609.6	AHF(†)-24-(*)-HB60-24	35¹¹⁄₁₆	906.46	20⅝	523.88	23¹³⁄₁₆	604.84
		30	762	AHF(†)-30-(*)-HB60-24	38¼	971.55	22⅛	561.98	25½	647.70
		36	914.4	AHF(†)-36-(*)-HB60-24	40⅞	1038.23	23⅝	600.08	27¼	692.15
		42	1,066.8	AHF(†)-42-(*)-HB60-24	43⁷⁄₁₆	1103.31	25⅛	638.18	29⁵⁄₁₆	744.54
36	914.4	6	152.4	AHF(†)-06-(*)-HB60-36	38¼	971.55	22⅛	561.98	30¹¹⁄₁₆	779.46
		9	228.6	AHF(†)-09-(*)-HB60-36	39⁹⁄₁₆	1004.89	22⅞	581.03	26⅜	669.93
		12	304.8	AHF(†)-12-(*)-HB60-36	40⅞	1038.23	23⅝	600.08	27¼	692.15
		18	457.2	AHF(†)-18-(*)-HB60-36	43½	1104.90	25⅛	638.18	29	736.60
		24	609.6	AHF(†)-24-(*)-HB60-36	46¹⁄₁₆	1169.99	26⅝	676.28	30¹¹⁄₁₆	779.46
		30	762	AHF(†)-30-(*)-HB60-36	48¹¹⁄₁₆	1236.66	28⅛	714.38	32⁷⁄₁₆	823.91
		36	914.4	AHF(†)-36-(*)-HB60-36	51¼	1301.75	29⅝	752.48	34³⁄₁₆	868.36
		42	1,066.8	AHF(†)-42-(*)-HB60-36	53⅞	1368.43	31⅛	790.58	35⁵⁄₁₆	896.94
48	1,219.2	6	152.4	AHF(†)-06-(*)-HB60-48	48¹¹⁄₁₆	1236.66	28⅛	714.38	32⁷⁄₁₆	823.91
		9	228.6	AHF(†)-09-(*)-HB60-48	49¹⁵⁄₁₆	1268.41	28⅞	733.43	33⁹⁄₁₆	846.14
		12	304.8	AHF(†)-12-(*)-HB60-48	51¼	1301.75	29⅝	752.48	34³⁄₁₆	868.36
		18	457.2	AHF(†)-18-(*)-HB60-48	53⅞	1368.43	31⅛	790.58	35¹⁵⁄₁₆	912.81
		24	609.6	AHF(†)-24-(*)-HB60-48	56⁷⁄₁₆	1433.51	32⅝	828.68	37⅝	955.68
		30	762	AHF(†)-30-(*)-HB60-48	59¹⁄₁₆	1500.19	34⅛	866.78	39⅜	1000.13
		36	914.4	AHF(†)-36-(*)-HB60-48	61¹¹⁄₁₆	1566.86	35⅝	904.88	41⅛	1044.58
		42	1,066.8	AHF(†)-42-(*)-HB60-48	64¼	1631.95	37⅛	942.98	42¹³⁄₁₆	1087.44

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

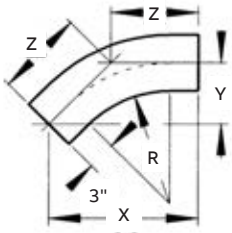
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°, 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

45°/30° H-style horizontal bend fittings

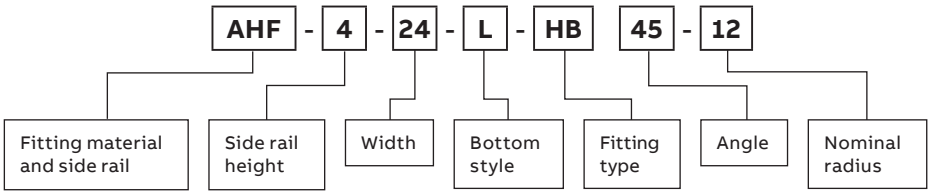
45° Horizontal bend – H-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-HB45-12	15¾	400.05	6½	165.10	9³⁄₁₆	233.36
		9	228.6	AHF(†)-09-(*)-HB45-12	16¹³⁄₁₆	427.04	6¹⁵⁄₁₆	176.21	9¹³⁄₁₆	249.24
		12	304.8	AHF(†)-12-(*)-HB45-12	17⅞	454.03	7⅜	187.33	10⁷⁄₁₆	265.11
		18	457.2	AHF(†)-18-(*)-HB45-12	20	508.00	8¼	209.55	11¹¹⁄₁₆	296.86
		24	609.6	AHF(†)-24-(*)-HB45-12	22¹⁄₁₆	560.39	9⅛	231.78	12¹⁵⁄₁₆	328.61
		30	762	AHF(†)-30-(*)-HB45-12	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		36	914.4	AHF(†)-36-(*)-HB45-12	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	15⁷⁄₁₆	392.11
		42	1,066.8	AHF(†)-42-(*)-HB45-12	28⁷⁄₁₆	722.31	11⅞	301.63	16¹¹⁄₁₆	423.86
24	609.6	6	152.4	AHF(†)-06-(*)-HB45-24	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		9	228.6	AHF(†)-09-(*)-HB45-24	25¼	641.35	10½	266.70	15⁷⁄₁₆	392.11
		12	304.8	AHF(†)-12-(*)-HB45-24	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	16¹¹⁄₁₆	423.86
		18	457.2	AHF(†)-18-(*)-HB45-24	28⁷⁄₁₆	722.31	11¹³⁄₁₆	300.04	17¹⁵⁄₁₆	455.61
		24	609.6	AHF(†)-24-(*)-HB45-24	30⁹⁄₁₆	776.29	12¹¹⁄₁₆	322.26	19⅛	231.78
		30	762	AHF(†)-30-(*)-HB45-24	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19¾	501.65
		36	914.4	AHF(†)-36-(*)-HB45-24	34¹³⁄₁₆	884.24	14⅞	377.83	20⅜	517.53
		42	1,066.8	AHF(†)-42-(*)-HB45-24	36¹⁵⁄₁₆	938.21	15¾	400.05	21⅝	549.28
36	914.4	6	152.4	AHF(†)-06-(*)-HB45-36	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19⅛	485.78
		9	228.6	AHF(†)-09-(*)-HB45-36	33¾	857.25	14	355.60	19¾	501.65
		12	304.8	AHF(†)-12-(*)-HB45-36	34¹³⁄₁₆	884.24	14⁷⁄₁₆	366.71	20⅜	517.53
		18	457.2	AHF(†)-18-(*)-HB45-36	36¹⁵⁄₁₆	938.21	15¹⁵⁄₁₆	404.81	21⅝	549.28
		24	609.6	AHF(†)-24-(*)-HB45-36	39¹⁄₁₆	992.19	16³⁄₁₆	411.16	22⅞	581.03
		30	762	AHF(†)-30-(*)-HB45-36	41³⁄₁₆	1046.16	17¹⁄₁₆	433.39	24⅛	612.78
		36	914.4	AHF(†)-36-(*)-HB45-36	43⁵⁄₁₆	1100.14	17¹⁵⁄₁₆	455.61	25⅜	644.53
		42	1,066.8	AHF(†)-42-(*)-HB45-36	45⁷⁄₁₆	1154.11	18¹³⁄₁₆	477.84	26⅝	676.28
48	1,219.2	6	152.4	AHF(†)-06-(*)-HB45-48	41³⁄₁₆	1062.04	17¹⁄₁₆	433.39	24⅛	612.78
		9	228.6	AHF(†)-09-(*)-HB45-48	42¼	1073.15	17½	444.50	24¾	628.65
		12	304.8	AHF(†)-12-(*)-HB45-48	43⁵⁄₁₆	1100.14	17¹⁵⁄₁₆	455.61	25⅜	644.53
		18	457.2	AHF(†)-18-(*)-HB45-48	45⁷⁄₁₆	1154.11	18¹³⁄₁₆	477.84	26⅝	676.28
		24	609.6	AHF(†)-24-(*)-HB45-48	47⁹⁄₁₆	1208.09	19¹¹⁄₁₆	500.06	27¾	704.85
		30	762	AHF(†)-30-(*)-HB45-48	49¹¹⁄₁₆	1262.06	20⁹⁄₁₆	522.29	29⅛	739.78
		36	914.4	AHF(†)-36-(*)-HB45-48	51¹³⁄₁₆	1316.04	21⁷⁄₁₆	544.51	30⁵⁄₁₆	769.94
		42	1,066.8	AHF(†)-42-(*)-HB45-48	53¹⁵⁄₁₆	1370.01	22⁵⁄₁₆	566.74	31⁹⁄₁₆	801.69

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

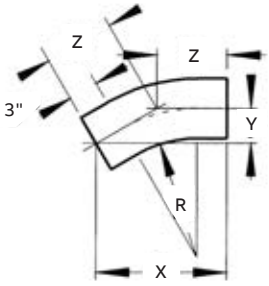
Fitting number selection



SECTION 5

—

30° Horizontal bend – H-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-HB30-12	13 1/8	333.38	3 1/2	88.90	7	177.80
		9	228.6	AHF(†)-09-(*)-HB30-12	13 7/8	352.43	3 11/16	93.66	7 7/16	188.91
		12	304.8	AHF(†)-12-(*)-HB30-12	14 5/8	371.48	3 15/16	100.01	7 13/16	198.44
		18	457.2	AHF(†)-18-(*)-HB30-12	16 1/8	409.58	4 5/16	109.54	8 5/8	219.08
		24	609.6	AHF(†)-24-(*)-HB30-12	17 5/8	447.68	4 11/16	119.06	9 7/8	250.83
		30	762	AHF(†)-30-(*)-HB30-12	19 1/8	485.78	5 1/8	130.18	10 1/4	260.35
		36	914.4	AHF(†)-36-(*)-HB30-12	20 5/8	523.88	5 1/2	139.70	11 1/16	296.86
		42	1,066.8	AHF(†)-42-(*)-HB30-12	22 1/8	561.98	5 7/8	149.23	12 5/16	312.74
24	609.6	6	152.4	AHF(†)-06-(*)-HB30-24	19 1/8	485.78	5 1/8	130.18	10 1/4	260.35
		9	228.6	AHF(†)-09-(*)-HB30-24	19 7/8	504.83	5 5/16	134.94	10 5/8	269.88
		12	304.8	AHF(†)-12-(*)-HB30-24	20 5/8	523.88	5 1/2	139.70	11 1/16	280.99
		18	457.2	AHF(†)-18-(*)-HB30-24	22 1/8	561.98	5 5/16	134.94	12 5/16	312.74
		24	609.6	AHF(†)-24-(*)-HB30-24	23 5/8	600.08	6 5/16	160.34	10 1/4	260.35
		30	762	AHF(†)-30-(*)-HB30-24	25 1/8	638.18	6 3/4	171.45	10 5/8	269.88
		36	914.4	AHF(†)-36-(*)-HB30-24	26 5/8	676.28	7 1/8	180.98	11 1/16	280.99
		42	1,066.8	AHF(†)-42-(*)-HB30-24	28 1/8	714.38	7 1/2	190.50	11 13/16	300.04
36	914.4	6	152.4	AHF(†)-06-(*)-HB30-36	25 1/8	638.18	6 3/4	171.45	12 5/8	320.68
		9	228.6	AHF(†)-09-(*)-HB30-36	25 7/8	657.23	6 15/16	176.21	13 7/16	341.31
		12	304.8	AHF(†)-12-(*)-HB30-36	26 5/8	676.28	7 1/8	180.98	14 1/2	368.30
		18	457.2	AHF(†)-18-(*)-HB30-36	28 1/8	714.38	7 1/2	190.50	15 1/16	382.59
		24	609.6	AHF(†)-24-(*)-HB30-36	29 5/8	752.48	7 15/16	201.61	15 7/8	403.23
		30	762	AHF(†)-30-(*)-HB30-36	31 1/8	790.58	8 5/16	211.14	16 11/16	423.86
		36	914.4	AHF(†)-36-(*)-HB30-36	32 5/8	828.68	8 3/4	222.25	17 1/2	444.50
		42	1,066.8	AHF(†)-42-(*)-HB30-36	34 1/8	866.78	9 1/8	231.78	18 5/16	465.14
48	1,219.2	6	152.4	AHF(†)-06-(*)-HB30-48	31 1/8	790.58	8 5/16	211.14	16 11/16	423.86
		9	228.6	AHF(†)-09-(*)-HB30-48	31 7/8	809.63	8 9/16	217.49	17 1/16	433.39
		12	304.8	AHF(†)-12-(*)-HB30-48	32 5/8	828.68	8 3/4	222.25	17 1/2	444.50
		18	457.2	AHF(†)-18-(*)-HB30-48	34 1/8	866.78	9 1/8	231.78	18 1/4	463.55
		24	609.6	AHF(†)-24-(*)-HB30-48	35 5/8	904.88	9 9/16	242.89	19 1/16	484.19
		30	762	AHF(†)-30-(*)-HB30-48	37 1/8	942.98	9 15/16	252.41	19 7/8	504.83
		36	914.4	AHF(†)-36-(*)-HB30-48	38 5/8	981.08	10 5/16	261.94	20 11/16	525.46
		42	1,066.8	AHF(†)-42-(*)-HB30-48	40 1/8	1019.18	10 11/16	271.46	21 1/2	546.10

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

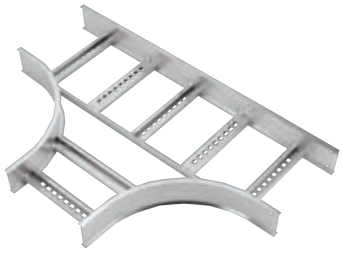
Selection guide

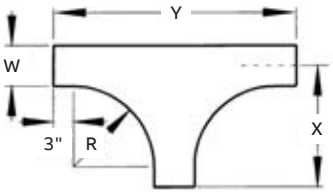
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°, 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

H-style horizontal tee and cross fittings

Horizontal tee – H-style

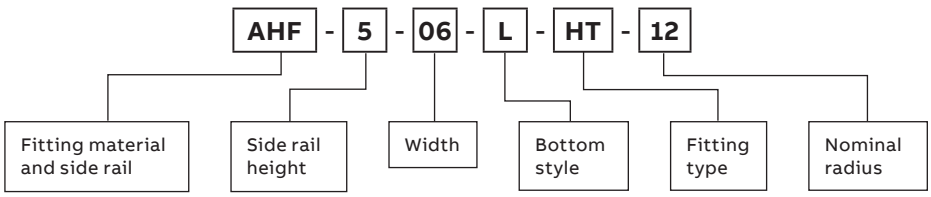




Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-HT12	18	457.20	36	914.40
		9	228.6	AHF(†)-09-(*)-HT12	19½	495.30	39	990.60
		12	304.8	AHF(†)-12-(*)-HT12	21	533.40	42	1066.80
		18	457.2	AHF(†)-18-(*)-HT12	24	609.60	48	1219.20
		24	609.6	AHF(†)-24-(*)-HT12	27	685.80	54	1371.60
		30	762	AHF(†)-30-(*)-HT12	30	762.00	60	1524.00
		36	914.4	AHF(†)-36-(*)-HT12	33	838.20	66	1676.40
		42	1,066.8	AHF(†)-42-(*)-HT12	36	914.40	72	1828.80
24	609.6	6	152.4	AHF(†)-06-(*)-HT24	30	762.00	60	1524.00
		9	228.6	AHF(†)-09-(*)-HT24	31½	800.10	63	1600.20
		12	304.8	AHF(†)-12-(*)-HT24	33	838.20	66	1676.40
		18	457.2	AHF(†)-18-(*)-HT24	36	914.40	72	1828.80
		24	609.6	AHF(†)-24-(*)-HT24	39	990.60	78	1981.20
		30	762	AHF(†)-30-(*)-HT24	42	1066.80	84	2133.60
		36	914.4	AHF(†)-36-(*)-HT24	45	1143.00	90	2286.00
		42	1,066.8	AHF(†)-42-(*)-HT24	48	1219.20	96	2438.40
36	914.4	6	152.4	AHF(†)-06-(*)-HT36	42	1066.80	84	2133.60
		9	228.6	AHF(†)-09-(*)-HT36	43½	1104.90	87	2209.80
		12	304.8	AHF(†)-12-(*)-HT36	45	1143.00	90	2286.00
		18	457.2	AHF(†)-18-(*)-HT36	48	1219.20	96	2438.40
		24	609.6	AHF(†)-24-(*)-HT36	51	1295.40	102	2590.80
		30	762	AHF(†)-30-(*)-HT36	54	1371.60	108	2743.20
		36	914.4	AHF(†)-36-(*)-HT36	57	1447.80	114	2895.60
		42	1,066.8	AHF(†)-42-(*)-HT36	60	1524.00	120	3048.00
48	1,219.2	6	152.4	AHF(†)-06-(*)-HT48	54	1371.60	108	2743.20
		9	228.6	AHF(†)-09-(*)-HT48	55½	1409.70	111	2819.40
		12	304.8	AHF(†)-12-(*)-HT48	57	1447.80	114	2895.60
		18	457.2	AHF(†)-18-(*)-HT48	60	1524.00	120	3048.00
		24	609.6	AHF(†)-24-(*)-HT48	63	1600.20	126	3200.40
		30	762	AHF(†)-30-(*)-HT48	66	1676.40	132	3352.80
		36	914.4	AHF(†)-36-(*)-HT48	69	1752.60	138	3505.20
		42	1,066.8	AHF(†)-42-(*)-HT48	72	1828.80	144	3657.60

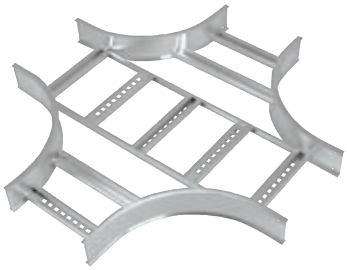
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

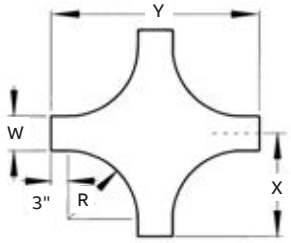
Fitting number selection



—

Horizontal cross – H-style





Nominal Radius		Nominal Width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-HX12	18	457.20	36	914.40
		9	228.6	AHF(†)-09-(*)-HX12	19½	495.30	39	990.60
		12	304.8	AHF(†)-12-(*)-HX12	21	533.40	42	1066.80
		18	457.2	AHF(†)-18-(*)-HX12	24	609.60	48	1219.20
		24	609.6	AHF(†)-24-(*)-HX12	27	685.80	54	1371.60
		30	762	AHF(†)-30-(*)-HX12	30	762.00	60	1524.00
		36	914.4	AHF(†)-36-(*)-HX12	33	838.20	66	1676.40
		42	1,066.8	AHF(†)-42-(*)-HX12	36	914.40	72	1828.80
24	609.6	6	152.4	AHF(†)-06-(*)-HX24	30	762.00	60	1524.00
		9	228.6	AHF(†)-09-(*)-HX24	31½	800.10	63	1600.20
		12	304.8	AHF(†)-12-(*)-HX24	33	838.20	66	1676.40
		18	457.2	AHF(†)-18-(*)-HX24	36	914.40	72	1828.80
		24	609.6	AHF(†)-24-(*)-HX24	39	990.60	78	1981.20
		30	762	AHF(†)-30-(*)-HX24	42	1066.80	84	2133.60
		36	914.4	AHF(†)-36-(*)-HX24	45	1143.00	90	2286.00
		42	1,066.8	AHF(†)-42-(*)-HX24	48	1219.20	96	2438.40
36	914.4	6	152.4	AHF(†)-06-(*)-HX36	42	1066.80	84	2133.60
		9	228.6	AHF(†)-09-(*)-HX36	43½	1104.90	87	2209.80
		12	304.8	AHF(†)-12-(*)-HX36	45	1143.00	90	2286.00
		18	457.2	AHF(†)-18-(*)-HX36	48	1219.20	96	2438.40
		24	609.6	AHF(†)-24-(*)-HX36	51	1295.40	102	2590.80
		30	762	AHF(†)-30-(*)-HX36	54	1371.60	108	2743.20
		36	914.4	AHF(†)-36-(*)-HX36	57	1447.80	114	2895.60
		42	1,066.8	AHF(†)-42-(*)-HX36	60	1524.00	120	3048.00
48	1,219.2	6	152.4	AHF(†)-06-(*)-HX48	54	1371.60	108	2743.20
		9	228.6	AHF(†)-09-(*)-HX48	55½	1409.70	111	2819.40
		12	304.8	AHF(†)-12-(*)-HX48	57	1447.80	114	2895.60
		18	457.2	AHF(†)-18-(*)-HX48	60	1524.00	120	3048.00
		24	609.6	AHF(†)-24-(*)-HX48	63	1600.20	126	3200.40
		30	762	AHF(†)-30-(*)-HX48	66	1676.40	132	3352.80
		36	914.4	AHF(†)-36-(*)-HX48	69	1752.60	138	3505.20
		42	1,066.8	AHF(†)-42-(*)-HX48	72	1828.80	144	3657.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

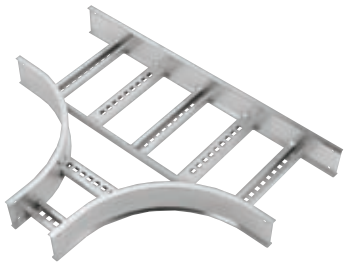
Selection guide

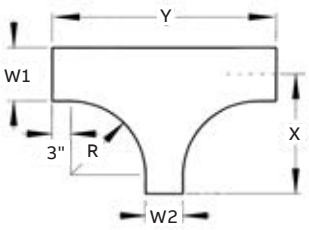
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

H-style horizontal reducing tee

Horizontal reducing tee – H-style

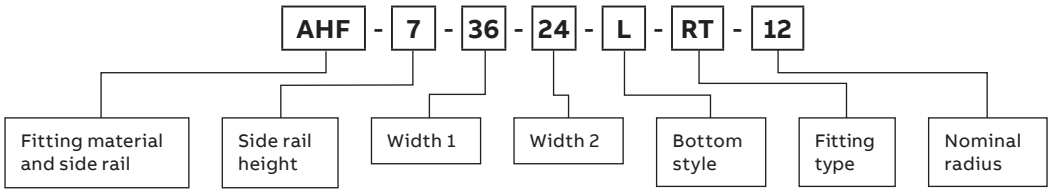




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	AHF(†)-4236-(*)-RT(+)	36	914.40	66	1676.40	48	1219.20	90	2286.00
		30	762	AHF(†)-4230-(*)-RT(+)	36	914.40	60	1524.00	48	1219.20	84	2133.60
		24	609.6	AHF(†)-4224-(*)-RT(+)	36	914.40	54	1371.60	48	1219.20	74	1879.60
		18	457.2	AHF(†)-4218-(*)-RT(+)	36	914.40	48	1219.20	48	1219.20	72	1828.80
		12	304.8	AHF(†)-4212-(*)-RT(+)	36	914.40	42	1066.80	48	1219.20	66	1676.40
		9	228.6	AHF(†)-4209-(*)-RT(+)	36	914.40	39	990.60	48	1219.20	63	1600.20
		6	152.4	AHF(†)-4206-(*)-RT(+)	36	914.40	36	914.40	48	1219.20	60	1524.00
36	914.4	30	762	AHF(†)-3630-(*)-RT(+)	33	838.20	60	1524.00	45	1143.00	84	2133.60
		24	609.6	AHF(†)-3624-(*)-RT(+)	33	838.20	54	1371.60	45	1143.00	78	1981.20
		18	457.2	AHF(†)-3618-(*)-RT(+)	33	838.20	48	1219.20	45	1143.00	72	1828.80
		12	304.8	AHF(†)-3612-(*)-RT(+)	33	838.20	42	1066.80	45	1143.00	66	1676.40
		9	228.6	AHF(†)-3609-(*)-RT(+)	33	838.20	39	990.60	45	1143.00	63	1600.20
		6	152.4	AHF(†)-3606-(*)-RT(+)	33	838.20	36	914.40	45	1143.00	60	1524.00
30	762	24	609.6	AHF(†)-3024-(*)-RT(+)	30	762.00	54	1371.60	42	1066.80	78	1981.20
		18	457.2	AHF(†)-3018-(*)-RT(+)	30	762.00	48	1219.20	42	1066.80	72	1828.80
		12	304.8	AHF(†)-3012-(*)-RT(+)	30	762.00	42	1066.80	42	1066.80	66	1676.40
		9	228.6	AHF(†)-3009-(*)-RT(+)	30	762.00	39	990.60	42	1066.80	63	1600.20
		6	152.4	AHF(†)-3006-(*)-RT(+)	30	762.00	36	914.40	42	1066.80	60	1524.00
24	609.6	18	457.2	AHF(†)-2418-(*)-RT(+)	27	685.80	48	1219.20	39	990.60	72	1828.80
		12	304.8	AHF(†)-2412-(*)-RT(+)	27	685.80	42	1066.80	39	990.60	66	1676.40
		9	228.6	AHF(†)-2409-(*)-RT(+)	27	685.80	39	990.60	39	990.60	63	1600.20
		6	152.4	AHF(†)-2406-(*)-RT(+)	27	685.80	36	914.40	39	990.60	60	1524.00
18	457.2	12	304.8	AHF(†)-1812-(*)-RT(+)	24	609.60	42	1066.80	36	914.40	66	1676.40
		9	228.6	AHF(†)-1809-(*)-RT(+)	24	609.60	39	990.60	36	914.40	63	1600.20
		6	152.4	AHF(†)-1806-(*)-RT(+)	24	609.60	36	914.40	36	914.40	60	1524.00
12	304.8	9	228.6	AHF(†)-1209-(*)-RT(+)	21	533.40	39	990.60	33	838.20	63	1600.20
		6	152.4	AHF(†)-1206-(*)-RT(+)	21	533.40	36	914.40	33	838.20	60	1524.00
9	228.6	6	152.4	AHF(†)-0906-(*)-RT(+)	19½	495.30	36	914.40	31½	800.10	60	1524.00

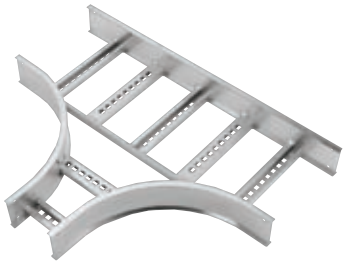
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

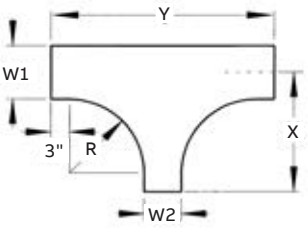
Fitting number selection



—

Horizontal reducing tee – H-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	AHF(†)-4236-(*)-RT(+)	60	1524.00	114	2895.60	72	1828.80	138	3505.20
		30	762	AHF(†)-4230-(*)-RT(+)	60	1524.00	108	2743.20	72	1828.80	132	3352.80
		24	609.6	AHF(†)-4224-(*)-RT(+)	60	1524.00	102	2590.80	72	1828.80	126	3200.40
		18	457.2	AHF(†)-4218-(*)-RT(+)	60	1524.00	96	2438.40	72	1828.80	120	3048.00
		12	304.8	AHF(†)-4212-(*)-RT(+)	60	1524.00	90	2286.00	72	1828.80	114	2895.60
		9	228.6	AHF(†)-4209-(*)-RT(+)	60	1524.00	87	2209.80	72	1828.80	111	2819.40
		6	152.4	AHF(†)-4206-(*)-RT(+)	60	1524.00	84	2133.60	72	1828.80	108	2743.20
36	914.4	30	762	AHF(†)-3630-(*)-RT(+)	57	1447.80	108	2743.20	69	1752.60	132	3352.80
		24	609.6	AHF(†)-3624-(*)-RT(+)	57	1447.80	102	2590.80	69	1752.60	126	3200.40
		18	457.2	AHF(†)-3618-(*)-RT(+)	57	1447.80	96	2438.40	69	1752.60	120	3048.00
		12	304.8	AHF(†)-3612-(*)-RT(+)	57	1447.80	90	2286.00	69	1752.60	114	2895.60
		9	228.6	AHF(†)-3609-(*)-RT(+)	57	1447.80	87	2209.80	69	1752.60	111	2819.40
		6	152.4	AHF(†)-3606-(*)-RT(+)	57	1447.80	84	2133.60	69	1752.60	108	2743.20
30	762	24	609.6	AHF(†)-3024-(*)-RT(+)	54	1371.60	102	2590.80	66	1676.40	126	3200.40
		18	457.2	AHF(†)-3018-(*)-RT(+)	54	1371.60	96	2438.40	66	1676.40	120	3048.00
		12	304.8	AHF(†)-3012-(*)-RT(+)	54	1371.60	90	2286.00	66	1676.40	114	2895.60
		9	228.6	AHF(†)-3009-(*)-RT(+)	54	1371.60	87	2209.80	66	1676.40	111	2819.40
		6	152.4	AHF(†)-3006-(*)-RT(+)	54	1371.60	84	2133.60	66	1676.40	108	2743.20
24	609.6	18	457.2	AHF(†)-2418-(*)-RT(+)	51	1295.40	96	2438.40	63	1600.20	120	3048.00
		12	304.8	AHF(†)-2412-(*)-RT(+)	51	1295.40	90	2286.00	63	1600.20	114	2895.60
		9	228.6	AHF(†)-2409-(*)-RT(+)	51	1295.40	87	2209.80	63	1600.20	111	2819.40
		6	152.4	AHF(†)-2406-(*)-RT(+)	51	1295.40	84	2133.60	63	1600.20	108	2743.20
18	457.2	12	304.8	AHF(†)-1812-(*)-RT(+)	48	1219.20	90	2286.00	60	1524.00	114	2895.60
		9	228.6	AHF(†)-1809-(*)-RT(+)	48	1219.20	87	2209.80	60	1524.00	111	2819.40
		6	152.4	AHF(†)-1806-(*)-RT(+)	48	1219.20	84	2133.60	60	1524.00	108	2743.20
12	304.8	9	228.6	AHF(†)-1209-(*)-RT(+)	45	1143.00	87	2209.80	57	1447.80	111	2819.40
		6	152.4	AHF(†)-1206-(*)-RT(+)	45	1143.00	84	2133.60	57	1447.80	108	2743.20
9	228.6	6	152.4	AHF(†)-0906-(*)-RT(+)	43½	1104.90	84	2133.60	55½	1409.70	108	2743.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

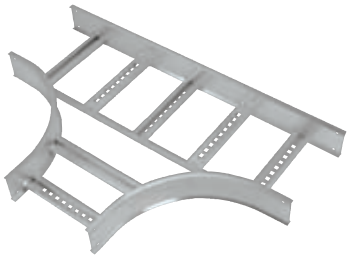
Selection guide

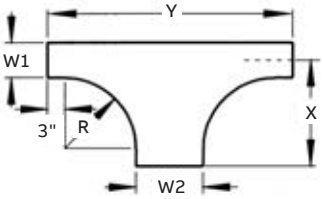
- Tray widths W1: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Tray widths W2: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

H-style horizontal expanding tee

Horizontal expanding tee – H-style

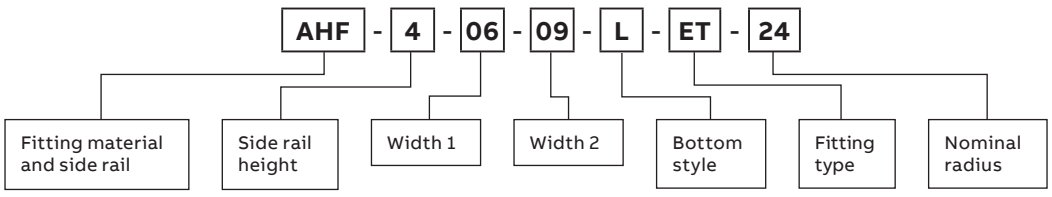




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	AHF(†)-3642-(*)-ET(+)	33	838.20	72	1828.80	45	1143.00	96	2438.40
30	762	36	914.4	AHF(†)-3036-(*)-ET(+)	30	762.00	66	1676.40	42	1066.80	90	2286.00
		42	1,066.8	AHF(†)-3042-(*)-ET(+)	30	762.00	72	1828.80	42	1066.80	96	2438.40
24	609.6	30	762	AHF(†)-2430-(*)-ET(+)	27	685.80	60	1524.00	39	990.60	84	2133.60
		36	914.4	AHF(†)-2436-(*)-ET(+)	27	685.80	66	1676.40	39	990.60	90	2286.00
		42	1,066.8	AHF(†)-2442-(*)-ET(+)	27	685.80	72	1828.80	39	990.60	96	2438.40
18	457.2	24	609.6	AHF(†)-1824-(*)-ET(+)	24	609.60	54	1371.60	36	914.40	78	1981.20
		30	762	AHF(†)-1830-(*)-ET(+)	24	609.60	60	1524.00	36	914.40	84	2133.60
		36	914.4	AHF(†)-1836-(*)-ET(+)	24	609.60	66	1676.40	36	914.40	90	2286.00
		42	1,066.8	AHF(†)-1842-(*)-ET(+)	24	609.60	72	1828.80	36	914.40	96	2438.40
12	304.8	18	457.2	AHF(†)-1218-(*)-ET(+)	21	533.40	48	1219.20	33	838.20	72	1828.80
		24	609.6	AHF(†)-1224-(*)-ET(+)	21	533.40	54	1371.60	33	838.20	78	1981.20
		30	762	AHF(†)-1230-(*)-ET(+)	21	533.40	60	1524.00	33	838.20	84	2133.60
		36	914.4	AHF(†)-1236-(*)-ET(+)	21	533.40	66	1676.40	33	838.20	90	2286.00
		42	1,066.8	AHF(†)-1242-(*)-ET(+)	21	533.40	72	1828.80	33	838.20	96	2438.40
9	228.6	12	304.8	AHF(†)-0912-(*)-ET(+)	19½	495.30	42	1066.80	31½	800.10	66	1676.40
		18	457.2	AHF(†)-0918-(*)-ET(+)	19½	495.30	48	1219.20	31½	800.10	72	1828.80
		24	609.6	AHF(†)-0924-(*)-ET(+)	19½	495.30	54	1371.60	31½	800.10	78	1981.20
		30	762	AHF(†)-0930-(*)-ET(+)	19½	495.30	60	1524.00	31½	800.10	84	2133.60
		36	914.4	AHF(†)-0936-(*)-ET(+)	19½	495.30	66	1676.40	31½	800.10	90	2286.00
		42	1,066.8	AHF(†)-0942-(*)-ET(+)	19½	495.30	72	1828.80	31½	800.10	96	2438.40
6	152.4	9	228.6	AHF(†)-0609-(*)-ET(+)	18	457.20	39	990.60	30	762.00	63	1600.20
		12	304.8	AHF(†)-0612-(*)-ET(+)	18	457.20	42	1066.80	30	762.00	66	1676.40
		18	457.2	AHF(†)-0618-(*)-ET(+)	18	457.20	48	1219.20	30	762.00	72	1828.80
		24	609.6	AHF(†)-0642-(*)-ET(+)	18	457.20	54	1371.60	30	762.00	78	1981.20
		30	762	AHF(†)-0630-(*)-ET(+)	18	457.20	60	1524.00	30	762.00	84	2133.60
		36	914.4	AHF(†)-0636-(*)-ET(+)	18	457.20	66	1676.40	30	762.00	90	2286.00
		42	1,066.8	AHF(†)-0642-(*)-ET(+)	18	457.20	72	1828.80	30	762.00	96	2438.40

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

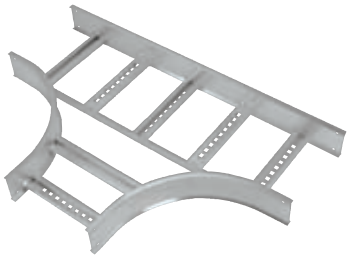
Fitting number selection

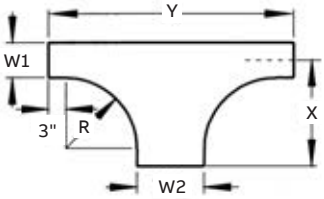


SECTION 5

—

Horizontal expanding tee – H-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	AHF(†)-3642-(*)-ET(+)	57	1447.80	120	3048.00	69	1752.60	144	3657.60
30	762	36	914.4	AHF(†)-3036-(*)-ET(+)	54	1371.60	114	2895.60	66	1676.40	138	3505.20
		42	1,066.8	AHF(†)-3042-(*)-ET(+)	54	1371.60	120	3048.00	66	1676.40	144	3657.60
24	609.6	30	762	AHF(†)-2430-(*)-ET(+)	51	1295.40	108	2743.20	63	1600.20	132	3352.80
		36	914.4	AHF(†)-2436-(*)-ET(+)	51	1295.40	114	2895.60	63	1600.20	138	3505.20
		42	1,066.8	AHF(†)-2442-(*)-ET(+)	51	1295.40	120	3048.00	63	1600.20	144	3657.60
18	457.2	24	609.6	AHF(†)-1824-(*)-ET(+)	48	1219.20	102	2590.80	60	1524.00	126	3200.40
		30	762	AHF(†)-1830-(*)-ET(+)	48	1219.20	108	2743.20	60	1524.00	132	3352.80
		36	914.4	AHF(†)-1836-(*)-ET(+)	48	1219.20	114	2895.60	60	1524.00	138	3505.20
		42	1,066.8	AHF(†)-1842-(*)-ET(+)	48	1219.20	120	3048.00	60	1524.00	144	3657.60
12	304.8	18	457.2	AHF(†)-1218-(*)-ET(+)	45	1143.00	96	2438.40	57	1447.80	120	3048.00
		24	609.6	AHF(†)-1224-(*)-ET(+)	45	1143.00	102	2590.80	57	1447.80	126	3200.40
		30	762	AHF(†)-1230-(*)-ET(+)	45	1143.00	108	2743.20	57	1447.80	132	3352.80
		36	914.4	AHF(†)-1236-(*)-ET(+)	45	1143.00	114	2895.60	57	1447.80	138	3505.20
		42	1,066.8	AHF(†)-1242-(*)-ET(+)	45	1143.00	120	3048.00	57	1447.80	144	3657.60
9	228.6	12	304.8	AHF(†)-0912-(*)-ET(+)	43½	1104.90	90	2286.00	55½	1409.70	114	2895.60
		18	457.2	AHF(†)-0918-(*)-ET(+)	43½	1104.90	96	2438.40	55½	1409.70	120	3048.00
		24	609.6	AHF(†)-0924-(*)-ET(+)	43½	1104.90	102	2590.80	55½	1409.70	126	3200.40
		30	762	AHF(†)-0930-(*)-ET(+)	43½	1104.90	108	2743.20	55½	1409.70	132	3352.80
		36	914.4	AHF(†)-0936-(*)-ET(+)	43½	1104.90	114	2895.60	55½	1409.70	138	3505.20
		42	1,066.8	AHF(†)-0942-(*)-ET(+)	43½	1104.90	120	3048.00	55½	1409.70	144	3657.60
6	152.4	9	228.6	AHF(†)-0609-(*)-ET(+)	42	1066.80	87	2209.80	54	1371.60	111	2819.40
		12	304.8	AHF(†)-0612-(*)-ET(+)	42	1066.80	90	2286.00	54	1371.60	114	2895.60
		18	457.2	AHF(†)-0618-(*)-ET(+)	42	1066.80	96	2438.40	54	1371.60	120	3048.00
		24	609.6	AHF(†)-0642-(*)-ET(+)	42	1066.80	102	2590.80	54	1371.60	126	3200.40
		30	762	AHF(†)-0630-(*)-ET(+)	42	1066.80	108	2743.20	54	1371.60	132	3352.80
		36	914.4	AHF(†)-0636-(*)-ET(+)	42	1066.80	144	3657.60	54	1371.60	138	3505.20
		42	1,066.8	AHF(†)-0642-(*)-ET(+)	42	1066.80	120	3048.00	54	1371.60	144	3657.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

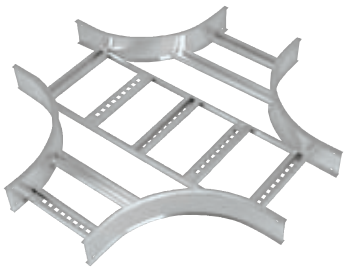
- Tray widths W1: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

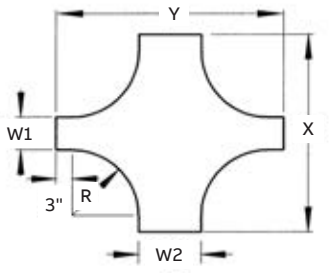
Metallic - Aluminum fittings

H-style horizontal expanding cross

SECTION 5

Horizontal expanding cross – H-style

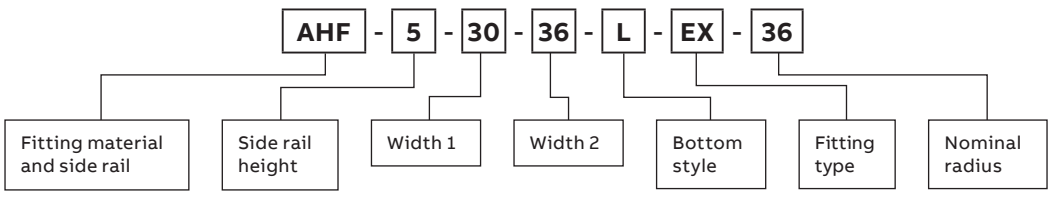




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	AHF(†)-3642-(*)-EX(+)	66	1676.40	72	1828.80	90	2286.00	96	2438.40
30	762	36	914.4	AHF(†)-3036-(*)-EX(+)	60	1524.00	66	1676.40	84	2133.60	90	2286.00
		42	1,066.8	AHF(†)-3042-(*)-EX(+)	60	1524.00	72	1828.80	84	2133.60	96	2438.40
24	609.6	30	762	AHF(†)-2430-(*)-EX(+)	54	1371.60	60	1524.00	78	1981.20	84	2133.60
		36	914.4	AHF(†)-2436-(*)-EX(+)	54	1371.60	66	1676.40	78	1981.20	90	2286.00
		42	1,066.8	AHF(†)-2442-(*)-EX(+)	54	1371.60	72	1828.80	78	1981.20	96	2438.40
18	457.2	24	609.6	AHF(†)-1824-(*)-EX(+)	48	1219.20	54	1371.60	72	1828.80	78	1981.20
		30	762	AHF(†)-1830-(*)-EX(+)	48	1219.20	60	1524.00	72	1828.80	84	2133.60
		36	914.4	AHF(†)-1836-(*)-EX(+)	48	1219.20	66	1676.40	72	1828.80	90	2286.00
		42	1,066.8	AHF(†)-1842-(*)-EX(+)	48	1219.20	72	1828.80	72	1828.80	96	2438.40
12	304.8	18	457.2	AHF(†)-1218-(*)-EX(+)	42	1066.80	48	1219.20	66	1676.40	72	1828.80
		24	609.6	AHF(†)-1224-(*)-EX(+)	42	1066.80	54	1371.60	66	1676.40	78	1981.20
		30	762	AHF(†)-1230-(*)-EX(+)	42	1066.80	60	1524.00	66	1676.40	84	2133.60
		36	914.4	AHF(†)-1236-(*)-EX(+)	42	1066.80	66	1676.40	66	1676.40	90	2286.00
		42	1,066.8	AHF(†)-1242-(*)-EX(+)	42	1066.80	72	1828.80	66	1676.40	96	2438.40
9	228.6	12	304.8	AHF(†)-0912-(*)-EX(+)	39	990.60	42	1066.80	63	1600.20	66	1676.40
		18	457.2	AHF(†)-0918-(*)-EX(+)	39	990.60	48	1219.20	63	1600.20	72	1828.80
		24	609.6	AHF(†)-0924-(*)-EX(+)	39	990.60	54	1371.60	63	1600.20	78	1981.20
		30	762	AHF(†)-0930-(*)-EX(+)	39	990.60	60	1524.00	63	1600.20	84	2133.60
		36	914.4	AHF(†)-0936-(*)-EX(+)	39	990.60	66	1676.40	63	1600.20	90	2286.00
		42	1,066.8	AHF(†)-0942-(*)-EX(+)	39	990.60	72	1828.80	63	1600.20	96	2438.40
6	152.4	9	228.6	AHF(†)-0609-(*)-EX(+)	36	914.40	39	990.60	60	1524.00	63	1600.20
		12	304.8	AHF(†)-0612-(*)-EX(+)	36	914.40	42	1066.80	60	1524.00	66	1676.40
		18	457.2	AHF(†)-0618-(*)-EX(+)	36	914.40	48	1219.20	60	1524.00	72	1828.80
		24	609.6	AHF(†)-0642-(*)-EX(+)	36	914.40	54	1371.60	60	1524.00	78	1981.20
		30	762	AHF(†)-0630-(*)-EX(+)	36	914.40	60	1524.00	60	1524.00	84	2133.60
		36	914.4	AHF(†)-0636-(*)-EX(+)	36	914.40	66	1676.40	60	1524.00	90	2286.00
		42	1,066.8	AHF(†)-0642-(*)-EX(+)	36	914.40	72	1828.80	60	1524.00	96	2438.40

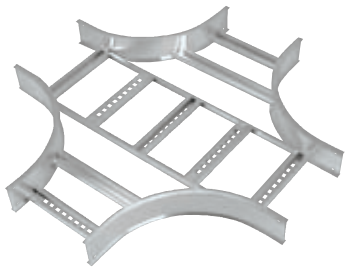
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

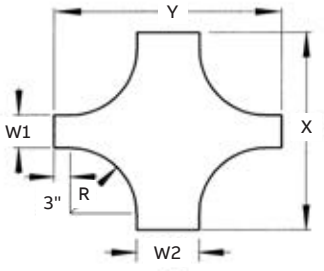
Fitting number selection



—

Horizontal expanding cross – H-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	AHF(†)-3642-(*)-EX(+)	114	2895.60	120	3048.00	138	3505.20	144	3657.60
30	762	36	914.4	AHF(†)-3036-(*)-EX(+)	108	2743.20	114	2895.60	132	3352.80	138	3505.20
		42	1,066.8	AHF(†)-3042-(*)-EX(+)	108	2743.20	120	3048.00	132	3352.80	144	3657.60
24	609.6	30	762	AHF(†)-2430-(*)-EX(+)	102	2590.80	108	2743.20	126	3200.40	132	3352.80
		36	914.4	AHF(†)-2436-(*)-EX(+)	102	2590.80	114	2895.60	126	3200.40	138	3505.20
		42	1,066.8	AHF(†)-2442-(*)-EX(+)	102	2590.80	120	3048.00	126	3200.40	144	3657.60
18	457.2	24	609.6	AHF(†)-1824-(*)-EX(+)	96	2438.40	102	2590.80	120	3048.00	126	3200.40
		30	762	AHF(†)-1830-(*)-EX(+)	96	2438.40	108	2743.20	120	3048.00	132	3352.80
		36	914.4	AHF(†)-1836-(*)-EX(+)	96	2438.40	114	2895.60	120	3048.00	138	3505.20
		42	1,066.8	AHF(†)-1842-(*)-EX(+)	96	2438.40	120	3048.00	120	3048.00	144	3657.60
12	304.8	18	457.2	AHF(†)-1218-(*)-EX(+)	90	2286.00	96	2438.40	114	2895.60	120	3048.00
		24	609.6	AHF(†)-1224-(*)-EX(+)	90	2286.00	102	2590.80	114	2895.60	126	3200.40
		30	762	AHF(†)-1230-(*)-EX(+)	90	2286.00	108	2743.20	114	2895.60	132	3352.80
		36	914.4	AHF(†)-1236-(*)-EX(+)	90	2286.00	114	2895.60	114	2895.60	138	3505.20
		42	1,066.8	AHF(†)-1242-(*)-EX(+)	90	2286.00	120	3048.00	114	2895.60	144	3657.60
9	228.6	12	304.8	AHF(†)-0912-(*)-EX(+)	87	2209.80	90	2286.00	111	2819.40	114	2895.60
		18	457.2	AHF(†)-0918-(*)-EX(+)	87	2209.80	96	2438.40	111	2819.40	120	3048.00
		24	609.6	AHF(†)-0924-(*)-EX(+)	87	2209.80	102	2590.80	111	2819.40	126	3200.40
		30	762	AHF(†)-0930-(*)-EX(+)	87	2209.80	108	2743.20	111	2819.40	132	3352.80
		36	914.4	AHF(†)-0936-(*)-EX(+)	87	2209.80	114	2895.60	111	2819.40	138	3505.20
		42	1,066.8	AHF(†)-0942-(*)-EX(+)	87	2209.80	120	3048.00	111	2819.40	144	3657.60
6	152.4	9	228.6	AHF(†)-0609-(*)-EX(+)	84	2133.60	87	2209.80	108	2743.20	111	2819.40
		12	304.8	AHF(†)-0612-(*)-EX(+)	84	2133.60	90	2286.00	108	2743.20	114	2895.60
		18	457.2	AHF(†)-0618-(*)-EX(+)	84	2133.60	96	2438.40	108	2743.20	120	3048.00
		24	609.6	AHF(†)-0642-(*)-EX(+)	84	2133.60	102	2590.80	108	2743.20	126	3200.40
		30	762	AHF(†)-0630-(*)-EX(+)	84	2133.60	108	2743.20	108	2743.20	132	3352.80
		36	914.4	AHF(†)-0636-(*)-EX(+)	84	2133.60	144	3657.60	108	2743.20	138	3505.20
		42	1,066.8	AHF(†)-0642-(*)-EX(+)	84	2133.60	120	3048.00	108	2743.20	144	3657.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Tray widths W1: 6, 9, 12, 18, 24, 30" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

H-style reducer fittings

Offset reducer – left

Reducer – left

Offset reducer – left

Selection guide

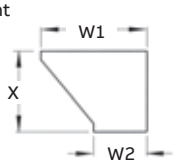
- Tray widths W1: 6, 9, 12, 18, 24, 30, 42"
- Tray widths W2: 6, 9, 12, 18, 24, 30, 36"
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4" - 7"

NOTE: For fitting number selection see page 85

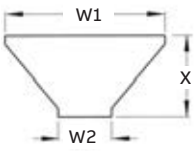
Horizontal reducer – H-style

Widths W1 (in)	Widths W1 (mm)	W1 (in)	W1 (mm)	Left reducer Cat. No.	Dim. X (in)	Dim. X (mm)	Straight reducer (concentric) Cat. No.	Dim. X (in)	Dim. X (mm)	Right reducer Cat. No.	Dim. X (in)	Dim. X (mm)
42	1,066.8	36	914.4	AHF(†)-42-36-(*)-HLR	15 7/16	392.11	AHF(†)-42-36-(*)-HSR	13 3/4	349.25	AHF(†)-42-36-(*)-HRR	15 7/16	392.11
		30	762	AHF(†)-42-30-(*)-HLR	18 5/16	465.14	AHF(†)-42-30-(*)-HSR	15 7/16	392.11	AHF(†)-42-30-(*)-HRR	18 5/16	465.14
		24	609.6	AHF(†)-42-24-(*)-HLR	22 3/8	568.33	AHF(†)-42-24-(*)-HSR	17 3/16	436.56	AHF(†)-42-24-(*)-HRR	22 3/8	568.33
		18	457.2	AHF(†)-42-18-(*)-HLR	25 7/8	657.23	AHF(†)-42-18-(*)-HSR	18 5/16	465.14	AHF(†)-42-18-(*)-HRR	25 7/8	657.23
		12	304.8	AHF(†)-42-12-(*)-HLR	29 5/16	744.54	AHF(†)-42-12-(*)-HSR	20 5/8	523.88	AHF(†)-42-12-(*)-HRR	29 5/16	744.54
		9	228.6	AHF(†)-42-09-(*)-HLR	31 1/16	788.99	AHF(†)-42-09-(*)-HSR	21 1/2	546.10	AHF(†)-42-09-(*)-HRR	31 1/16	788.99
		6	152.4	AHF(†)-42-06-(*)-HLR	32 3/4	831.85	AHF(†)-42-06-(*)-HSR	22 3/8	568.33	AHF(†)-42-06-(*)-HRR	32 3/4	831.85
36	914.4	30	762	AHF(†)-36-30-(*)-HLR	15 7/16	392.11	AHF(†)-36-30-(*)-HSR	13 3/4	349.25	AHF(†)-36-30-(*)-HRR	15 7/16	392.11
		24	609.6	AHF(†)-36-24-(*)-HLR	18 15/16	481.01	AHF(†)-36-24-(*)-HSR	15 7/16	392.11	AHF(†)-36-24-(*)-HRR	18 15/16	481.01
		18	457.2	AHF(†)-36-18-(*)-HLR	22 3/8	568.33	AHF(†)-36-18-(*)-HSR	17 3/8	441.33	AHF(†)-36-18-(*)-HRR	22 3/8	568.33
		12	304.8	AHF(†)-36-12-(*)-HLR	25 7/8	657.23	AHF(†)-36-12-(*)-HSR	18 5/16	465.14	AHF(†)-36-12-(*)-HRR	25 7/8	657.23
		9	228.6	AHF(†)-36-09-(*)-HLR	27 9/16	700.09	AHF(†)-36-09-(*)-HSR	19 13/16	503.24	AHF(†)-36-09-(*)-HRR	27 9/16	700.09
		6	152.4	AHF(†)-36-06-(*)-HLR	29 5/16	744.54	AHF(†)-36-06-(*)-HSR	20 11/16	525.46	AHF(†)-36-06-(*)-HRR	29 5/16	744.54
30	762	24	609.6	AHF(†)-30-24-(*)-HLR	15 7/16	392.11	AHF(†)-30-24-(*)-HSR	13 3/4	349.25	AHF(†)-30-24-(*)-HRR	15 7/16	392.11
		18	457.2	AHF(†)-30-18-(*)-HLR	18 15/16	481.01	AHF(†)-30-18-(*)-HSR	15 7/16	392.11	AHF(†)-30-18-(*)-HRR	18 15/16	481.01
		12	304.8	AHF(†)-30-12-(*)-HLR	22 3/8	568.33	AHF(†)-30-12-(*)-HSR	17 3/16	436.56	AHF(†)-30-12-(*)-HRR	22 3/8	568.33
		9	228.6	AHF(†)-30-09-(*)-HLR	24 1/8	612.78	AHF(†)-30-09-(*)-HSR	18 1/16	458.79	AHF(†)-30-09-(*)-HRR	24 1/8	612.78
		6	152.4	AHF(†)-30-06-(*)-HLR	25 7/8	657.23	AHF(†)-30-06-(*)-HSR	18 15/16	481.01	AHF(†)-30-06-(*)-HRR	25 7/8	657.23
24	609.6	18	457.2	AHF(†)-24-18-(*)-HLR	15 7/16	392.11	AHF(†)-24-18-(*)-HSR	13 3/4	349.25	AHF(†)-24-18-(*)-HRR	15 7/16	392.11
		12	304.8	AHF(†)-24-12-(*)-HLR	18 15/16	481.01	AHF(†)-24-12-(*)-HSR	15 7/16	392.11	AHF(†)-24-12-(*)-HRR	18 15/16	481.01
		9	228.6	AHF(†)-24-09-(*)-HLR	20 11/16	525.46	AHF(†)-24-09-(*)-HSR	16 5/16	414.34	AHF(†)-24-09-(*)-HRR	20 11/16	525.46
		6	152.4	AHF(†)-24-06-(*)-HLR	22 3/8	568.33	AHF(†)-24-06-(*)-HSR	17 3/16	436.56	AHF(†)-24-06-(*)-HRR	22 3/8	568.33
18	457.2	12	304.8	AHF(†)-18-12-(*)-HLR	15 7/16	392.11	AHF(†)-18-12-(*)-HSR	13 3/4	349.25	AHF(†)-18-12-(*)-HRR	15 7/16	392.11
		9	228.6	AHF(†)-18-09-(*)-HLR	17 3/16	436.56	AHF(†)-18-09-(*)-HSR	14 5/8	371.48	AHF(†)-18-09-(*)-HRR	17 3/16	436.56
		6	152.4	AHF(†)-18-06-(*)-HLR	18 15/16	481.01	AHF(†)-18-06-(*)-HSR	15 7/16	392.11	AHF(†)-18-06-(*)-HRR	18 15/16	481.01
12	304.8	9	228.6	AHF(†)-12-09-(*)-HLR	13 3/4	349.25	AHF(†)-12-09-(*)-HSR	12 7/8	327.03	AHF(†)-12-09-(*)-HRR	13 3/4	349.25
		6	152.4	AHF(†)-12-06-(*)-HLR	15 7/16	392.11	AHF(†)-12-06-(*)-HSR	13 3/4	349.25	AHF(†)-12-06-(*)-HRR	15 7/16	392.11
9	1,066.8	6	152.4	AHF(†)-09-06-(*)-HLR	13 3/4	349.25	AHF(†)-09-06-(*)-HSR	12 7/8	327.03	AHF(†)-09-06-(*)-HRR	13 3/4	349.25

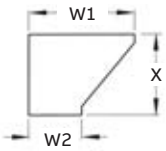
Offset reducer – right



Reducer – left



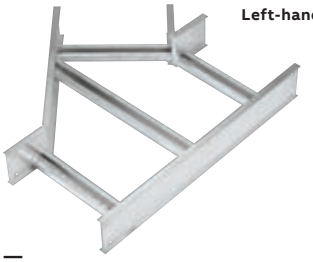
Offset reducer – left

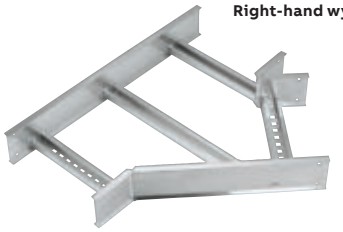


(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Metallic - Aluminum fittings

45° H-style horizontal wye fittings





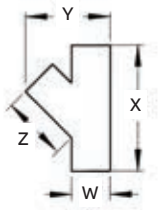
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

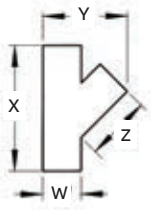
45° Horizontal wye – H-style

Width (in)	(mm)	Left-hand wye Cat. No.	Right-hand wye Cat. No.	Dimensions					
				X (in)	X(mm)	Y (in)	Y(mm)	Z (in)	Z (mm)
6	152.4	AHF(†)-06-(*)-HYL	AHF(†)-06-(*)-HYR	18 5/16	465.14	14 13/16	376.24	12 7/16	315.91
9	228.6	AHF(†)-09-(*)-HYL	AHF(†)-09-(*)-HYR	22 1/2	571.50	19 15/16	506.41	15 7/16	392.11
12	304.8	AHF(†)-12-(*)-HYL	AHF(†)-12-(*)-HYR	26 3/4	679.45	25	635.00	18 7/16	468.31
18	457.2	AHF(†)-18-(*)-HYL	AHF(†)-18-(*)-HYR	35 1/4	908.05	35 1/4	895.35	24 7/16	620.71
24	609.6	AHF(†)-24-(*)-HYL	AHF(†)-24-(*)-HYR	43 1/2	1104.90	45 1/2	1155.70	30 7/16	773.11
30	762	AHF(†)-30-(*)-HYL	AHF(†)-30-(*)-HYR	52 1/4	1327.15	55 3/4	1416.05	36 7/16	925.51
36	914.4	AHF(†)-36-(*)-HYL	AHF(†)-36-(*)-HYR	60 11/16	1541.46	66	1676.40	42 7/16	1077.91
42	1,066.8	AHF(†)-42-(*)-HYL	AHF(†)-42-(*)-HYR	69 3/16	1757.36	76 1/4	1936.75	45 7/16	1154.11

Left-hand wye

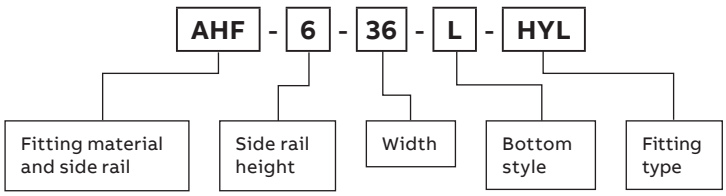


Right-hand wye



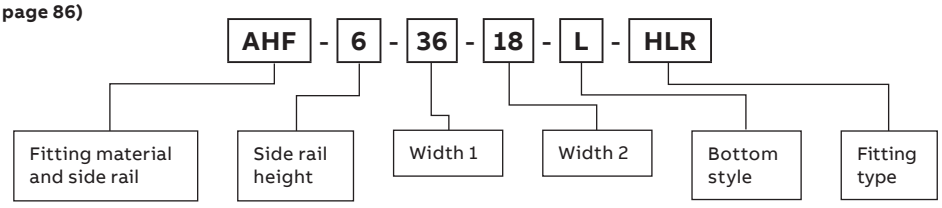
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection (45° Horizontal wye)



*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

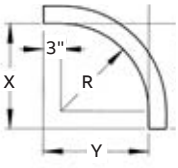
Fitting number selection (Horizontal reducer – see page 86)

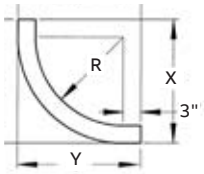


Metallic - Aluminum fittings

90° H-style vertical bend fittings

90° Vertical bend – H-style

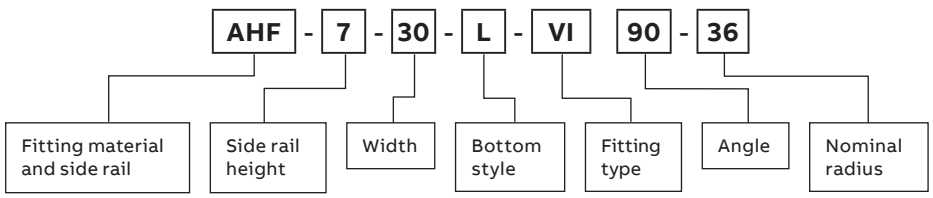




	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)		(+) VI side rail 4" (101.6mm)		(+) VI side rail 5" (127mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	AHF(†)-06-(*)-(+)90-12	15 381.00	15 381.00	19 3/16 487.36	19 3/16 487.36	20 1/16 509.59	20 1/16 509.59
			9	228.6	AHF(†)-09-(*)-(+)90-12						
			12	304.8	AHF(†)-12-(*)-(+)90-12						
			18	457.2	AHF(†)-18-(*)-(+)90-12						
			24	609.6	AHF(†)-24-(*)-(+)90-12						
			30	762	AHF(†)-30-(*)-(+)90-12						
			36	914.4	AHF(†)-36-(*)-(+)90-12						
			42	1,066.8	AHF(†)-42-(*)-(+)90-12						
	24	609.6	6	152.4	AHF(†)-06-(*)-(+)90-24	27 685.80	27 685.80	31 3/16 792.16	31 3/16 792.16	32 1/16 814.39	32 1/16 814.39
			9	228.6	AHF(†)-09-(*)-(+)90-24						
			12	304.8	AHF(†)-12-(*)-(+)90-24						
			18	457.2	AHF(†)-18-(*)-(+)90-24						
			24	609.6	AHF(†)-24-(*)-(+)90-24						
			30	762	AHF(†)-30-(*)-(+)90-24						
			36	914.4	AHF(†)-36-(*)-(+)90-24						
			42	1,066.8	AHF(†)-42-(*)-(+)90-24						
Inside bend	36	914.4	6	152.4	AHF(†)-06-(*)-(+)90-36	39 990.60	39 990.60	43 3/16 1096.96	43 3/16 1096.96	44 1/16 1119.19	44 1/16 1119.19
			9	228.6	AHF(†)-09-(*)-(+)90-36						
			12	304.8	AHF(†)-12-(*)-(+)90-36						
			18	457.2	AHF(†)-18-(*)-(+)90-36						
			24	609.6	AHF(†)-24-(*)-(+)90-36						
			30	762	AHF(†)-30-(*)-(+)90-36						
			36	914.4	AHF(†)-36-(*)-(+)90-36						
			42	1,066.8	AHF(†)-42-(*)-(+)90-36						
	48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)90-48	51 1295.40	51 1295.40	55 3/16 1401.76	55 3/16 1401.76	56 1/16 1423.99	56 1/16 1423.99
			9	228.6	AHF(†)-09-(*)-(+)90-48						
			12	304.8	AHF(†)-12-(*)-(+)90-48						
			18	457.2	AHF(†)-18-(*)-(+)90-48						
			24	609.6	AHF(†)-24-(*)-(+)90-48						
			30	762	AHF(†)-30-(*)-(+)90-48						
			36	914.4	AHF(†)-36-(*)-(+)90-48						
			42	1,066.8	AHF(†)-42-(*)-(+)90-48						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection

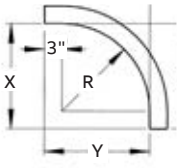


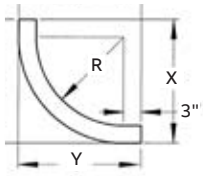
SECTION 5

—

90° Vertical bend – H-style (continued)

	Nominal Radius		Nominal Width			(+) VI side rail			
						6" (152.4mm)		7" (177.8mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	AHF(†)-06-(*)-(+)90-12	21¼ 539.75	21¼ 539.75	22¼ 565.15	22¼ 565.15
			9	228.6	AHF(†)-09-(*)-(+)90-12				
			12	304.8	AHF(†)-12-(*)-(+)90-12				
			18	457.2	AHF(†)-18-(*)-(+)90-12				
			24	609.6	AHF(†)-24-(*)-(+)90-12				
			30	762	AHF(†)-30-(*)-(+)90-12				
			36	914.4	AHF(†)-36-(*)-(+)90-12				
			42	1,066.8	AHF(†)-42-(*)-(+)90-12				
	24	609.6	6	152.4	AHF(†)-06-(*)-(+)90-24	33¼ 844.55	33¼ 844.55	34¼ 869.95	34¼ 869.95
			9	228.6	AHF(†)-09-(*)-(+)90-24				
			12	304.8	AHF(†)-12-(*)-(+)90-24				
			18	457.2	AHF(†)-18-(*)-(+)90-24				
			24	609.6	AHF(†)-24-(*)-(+)90-24				
			30	762	AHF(†)-30-(*)-(+)90-24				
			36	914.4	AHF(†)-36-(*)-(+)90-24				
			42	1,066.8	AHF(†)-42-(*)-(+)90-24				
Inside bend	36	914.4	6	152.4	AHF(†)-06-(*)-(+)90-36	45¼ 844.55	45¼ 844.55	46¼ 1174.75	46¼ 1174.75
			9	228.6	AHF(†)-09-(*)-(+)90-36				
			12	304.8	AHF(†)-12-(*)-(+)90-36				
			18	457.2	AHF(†)-18-(*)-(+)90-36				
			24	609.6	AHF(†)-24-(*)-(+)90-36				
			30	762	AHF(†)-30-(*)-(+)90-36				
			36	914.4	AHF(†)-36-(*)-(+)90-36				
			42	1,066.8	AHF(†)-42-(*)-(+)90-36				
	48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)90-48	57¼ 1454.15	57¼ 1454.15	58¼ 1479.55	58¼ 1479.55
			9	228.6	AHF(†)-09-(*)-(+)90-48				
			12	304.8	AHF(†)-12-(*)-(+)90-48				
			18	457.2	AHF(†)-18-(*)-(+)90-48				
			24	609.6	AHF(†)-24-(*)-(+)90-48				
			30	762	AHF(†)-30-(*)-(+)90-48				
			36	914.4	AHF(†)-36-(*)-(+)90-48				
			42	1,066.8	AHF(†)-42-(*)-(+)90-48				





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

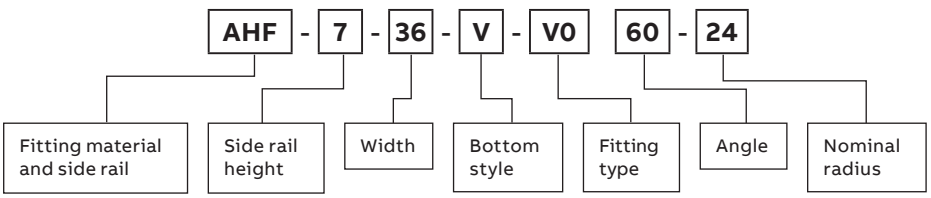
60° H-style vertical bend fittings

60° Vertical bend – H-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	AHF(†)-06-(*)-(+)60-12	14⅞ 377.83	8⅝ 219.08	9¹⁵⁄₁₆ 252.41	18½ 469.90	12¾ 323.85	12⁵⁄₁₆ 312.74
			9	228.6	AHF(†)-09-(*)-(+)60-12						
			12	304.8	AHF(†)-12-(*)-(+)60-12						
			18	457.2	AHF(†)-18-(*)-(+)60-12						
			24	609.6	AHF(†)-24-(*)-(+)60-12						
			30	762	AHF(†)-30-(*)-(+)60-12						
			36	914.4	AHF(†)-36-(*)-(+)60-12						
			42	1,066.8	AHF(†)-42-(*)-(+)60-12						
	24	609.6	6	152.4	AHF(†)-06-(*)-(+)60-24	25⁵⁄₁₆ 642.94	14⅝ 371.48	16⅞ 428.63	28⅞ 733.43	18¾ 476.25	19¼ 488.95
			9	228.6	AHF(†)-09-(*)-(+)60-24						
			12	304.8	AHF(†)-12-(*)-(+)60-24						
			18	457.2	AHF(†)-18-(*)-(+)60-24						
			24	609.6	AHF(†)-24-(*)-(+)60-24						
			30	762	AHF(†)-30-(*)-(+)60-24						
			36	914.4	AHF(†)-36-(*)-(+)60-24						
			42	1,066.8	AHF(†)-42-(*)-(+)60-24						
Inside bend	36	914.4	6	152.4	AHF(†)-06-(*)-(+)60-36	35¹¹⁄₁₆ 906.46	20⅝ 523.88	23³⁄₁₆ 588.96	39⁵⁄₁₆ 998.54	24¾ 628.65	26³⁄₁₆ 665.16
			9	228.6	AHF(†)-09-(*)-(+)60-36						
			12	304.8	AHF(†)-12-(*)-(+)60-36						
			18	457.2	AHF(†)-18-(*)-(+)60-36						
			24	609.6	AHF(†)-24-(*)-(+)60-36						
			30	762	AHF(†)-30-(*)-(+)60-36						
			36	914.4	AHF(†)-36-(*)-(+)60-36						
			42	1,066.8	AHF(†)-42-(*)-(+)60-36						
	48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)60-48	46¹⁄₁₆ 1169.99	26⅝ 676.28	30¹¹⁄₁₆ 779.46	49¹¹⁄₁₆ 1262.06	30¾ 781.05	33⅛ 841.38
			9	228.6	AHF(†)-09-(*)-(+)60-48						
			12	304.8	AHF(†)-12-(*)-(+)60-48						
			18	457.2	AHF(†)-18-(*)-(+)60-48						
			24	609.6	AHF(†)-24-(*)-(+)60-48						
			30	762	AHF(†)-30-(*)-(+)60-48						
			36	914.4	AHF(†)-36-(*)-(+)60-48						
			42	1,066.8	AHF(†)-42-(*)-(+)60-48						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



SECTION 5

—

60° Vertical bend – H-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-(+)60-12	19 5/16 490.54	13 11/16 347.66	12 7/8 327.03	20 5/16 515.94	14 13/16 376.24	13 1/2 342.90	21 1/8 536.58	15 13/16 401.64	14 1/8 358.78
		9	228.6	AHF(†)-09-(*)-(+)60-12									
		12	304.8	AHF(†)-12-(*)-(+)60-12									
		18	457.2	AHF(†)-18-(*)-(+)60-12									
		24	609.6	AHF(†)-24-(*)-(+)60-12									
		30	762	AHF(†)-30-(*)-(+)60-12									
		36	914.4	AHF(†)-36-(*)-(+)60-12									
		42	1,066.8	AHF(†)-42-(*)-(+)60-12									
24	609.6	6	152.4	AHF(†)-06-(*)-(+)60-24	29 11/16 754.06	19 11/16 500.06	19 13/16 503.24	30 11/16 779.46	20 13/16 528.64	20 7/16 519.11	31 9/16 801.69	21 13/16 554.04	21 533.40
		9	228.6	AHF(†)-09-(*)-(+)60-24									
		12	304.8	AHF(†)-12-(*)-(+)60-24									
		18	457.2	AHF(†)-18-(*)-(+)60-24									
		24	609.6	AHF(†)-24-(*)-(+)60-24									
		30	762	AHF(†)-30-(*)-(+)60-24									
		36	914.4	AHF(†)-36-(*)-(+)60-24									
		42	1,066.8	AHF(†)-42-(*)-(+)60-24									
36	914.4	6	152.4	AHF(†)-06-(*)-(+)60-36	40 1/16 1017.59	25 11/16 652.46	26 11/16 677.86	41 1/16 1042.99	26 13/16 681.04	27 3/8 695.33	41 15/16 1065.21	27 13/16 706.44	27 15/16 709.61
		9	228.6	AHF(†)-09-(*)-(+)60-36									
		12	304.8	AHF(†)-12-(*)-(+)60-36									
		18	457.2	AHF(†)-18-(*)-(+)60-36									
		24	609.6	AHF(†)-24-(*)-(+)60-36									
		30	762	AHF(†)-30-(*)-(+)60-36									
		36	914.4	AHF(†)-36-(*)-(+)60-36									
		42	1,066.8	AHF(†)-42-(*)-(+)60-36									
48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)60-48	50 7/16 1281.11	31 11/16 804.86	33 5/8 854.08	51 1/2 1308.10	32 13/16 833.44	34 5/16 871.54	52 5/16 1328.74	33 13/16 858.84	34 7/8 885.83
		9	228.6	AHF(†)-09-(*)-(+)60-48									
		12	304.8	AHF(†)-12-(*)-(+)60-48									
		18	457.2	AHF(†)-18-(*)-(+)60-48									
		24	609.6	AHF(†)-24-(*)-(+)60-48									
		30	762	AHF(†)-30-(*)-(+)60-48									
		36	914.4	AHF(†)-36-(*)-(+)60-48									
		42	1,066.8	AHF(†)-42-(*)-(+)60-48									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

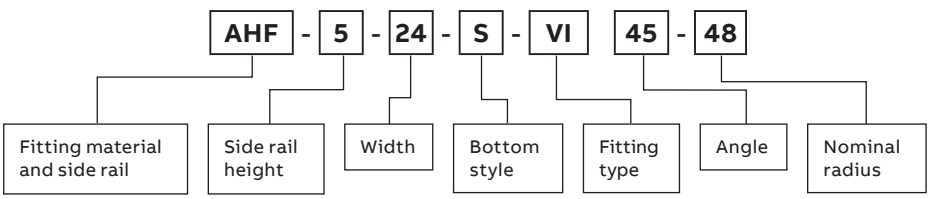
45° H-style vertical bends fittings

45° Vertical bend – H-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	AHF(†)-06-(*)-(+)45-12	13⅜ 346.08	5⅝ 142.88	8 203.20	16⁹⁄₁₆ 420.69	9¹³⁄₁₆ 249.24	9¹¹⁄₁₆ 246.06
			9	228.6	AHF(†)-09-(*)-(+)45-12						
			12	304.8	AHF(†)-12-(*)-(+)45-12						
			18	457.2	AHF(†)-18-(*)-(+)45-12						
			24	609.6	AHF(†)-24-(*)-(+)45-12						
			30	762	AHF(†)-30-(*)-(+)45-12						
			36	914.4	AHF(†)-36-(*)-(+)45-12						
			42	1,066.8	AHF(†)-42-(*)-(+)45-12						
	24	609.6	6	152.4	AHF(†)-06-(*)-(+)45-24	22¹⁄₁₈ 561.98	9⅛ 231.78	12¹⁵⁄₁₆ 328.61	25¹⁄₁₆ 636.59	13⁵⁄₁₆ 338.14	14¹¹⁄₁₆ 373.06
			9	228.6	AHF(†)-09-(*)-(+)45-24						
			12	304.8	AHF(†)-12-(*)-(+)45-24						
			18	457.2	AHF(†)-18-(*)-(+)45-24						
			24	609.6	AHF(†)-24-(*)-(+)45-24						
			30	762	AHF(†)-30-(*)-(+)45-24						
			36	914.4	AHF(†)-36-(*)-(+)45-24						
			42	1,066.8	AHF(†)-42-(*)-(+)45-24						
Inside bend	36	914.4	6	152.4	AHF(†)-06-(*)-(+)45-36	30⁹⁄₁₆ 776.29	12¹¹⁄₁₆ 322.26	17¹⁵⁄₁₆ 455.61	33½ 850.90	16⅜ 427.04	19⅝ 498.48
			9	228.6	AHF(†)-09-(*)-(+)45-36						
			12	304.8	AHF(†)-12-(*)-(+)45-36						
			18	457.2	AHF(†)-18-(*)-(+)45-36						
			24	609.6	AHF(†)-24-(*)-(+)45-36						
			30	762	AHF(†)-30-(*)-(+)45-36						
			36	914.4	AHF(†)-36-(*)-(+)45-36						
			42	1,066.8	AHF(†)-42-(*)-(+)45-36						
	48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)45-48	39¹⁄₁₆ 992.19	16³⁄₁₆ 411.16	22⅞ 581.03	42 1066.80	20⅜ 517.53	24⅝ 625.48
			9	228.6	AHF(†)-09-(*)-(+)45-48						
			12	304.8	AHF(†)-12-(*)-(+)45-48						
			18	457.2	AHF(†)-18-(*)-(+)45-48						
			24	609.6	AHF(†)-24-(*)-(+)45-48						
			30	762	AHF(†)-30-(*)-(+)45-48						
			36	914.4	AHF(†)-36-(*)-(+)45-48						
			42	1,066.8	AHF(†)-42-(*)-(+)45-48						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



45° Vertical bend – H-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-(+)60-12	17 3/16 436.56	10 11/16 271.46	10 1/16 255.59	18 457.20	11 7/8 301.63	10 9/16 268.29	18 11/16 474.66	12 7/8 327.03	10 15/16 277.81
		9	228.6	AHF(†)-09-(*)-(+)60-12									
		12	304.8	AHF(†)-12-(*)-(+)60-12									
		18	457.2	AHF(†)-18-(*)-(+)60-12									
		24	609.6	AHF(†)-24-(*)-(+)60-12									
		30	762	AHF(†)-30-(*)-(+)60-12									
		36	914.4	AHF(†)-36-(*)-(+)60-12									
		42	1,066.8	AHF(†)-42-(*)-(+)60-12									
24	609.6	6	152.4	AHF(†)-06-(*)-(+)60-24	25 11/16 652.46	14 1/4 361.95	15 1/16 382.59	26 1/2 673.10	15 3/8 390.53	15 1/2 393.70	27 3/16 690.56	16 3/4 425.45	15 15/16 404.81
		9	228.6	AHF(†)-09-(*)-(+)60-24									
		12	304.8	AHF(†)-12-(*)-(+)60-24									
		18	457.2	AHF(†)-18-(*)-(+)60-24									
		24	609.6	AHF(†)-24-(*)-(+)60-24									
		30	762	AHF(†)-30-(*)-(+)60-24									
		36	914.4	AHF(†)-36-(*)-(+)60-24									
		42	1,066.8	AHF(†)-42-(*)-(+)60-24									
36	914.4	6	152.4	AHF(†)-06-(*)-(+)60-36	34 3/16 868.36	17 3/4 450.85	20 508.00	35 889.00	18 7/8 479.43	20 1/2 520.70	35 11/16 906.46	19 7/8 504.83	20 7/8 530.23
		9	228.6	AHF(†)-09-(*)-(+)60-36									
		12	304.8	AHF(†)-12-(*)-(+)60-36									
		18	457.2	AHF(†)-18-(*)-(+)60-36									
		24	609.6	AHF(†)-24-(*)-(+)60-36									
		30	762	AHF(†)-30-(*)-(+)60-36									
		36	914.4	AHF(†)-36-(*)-(+)60-36									
		42	1,066.8	AHF(†)-42-(*)-(+)60-36									
48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)60-48	42 5/8 1082.68	21 1/4 539.75	25 635.00	43 1/2 1104.90	22 7/16 581.03	27 7/16 696.91	44 3/16 1122.36	23 3/8 593.73	25 7/8 657.23
		9	228.6	AHF(†)-09-(*)-(+)60-48									
		12	304.8	AHF(†)-12-(*)-(+)60-48									
		18	457.2	AHF(†)-18-(*)-(+)60-48									
		24	609.6	AHF(†)-24-(*)-(+)60-48									
		30	762	AHF(†)-30-(*)-(+)60-48									
		36	914.4	AHF(†)-36-(*)-(+)60-48									
		42	1,066.8	AHF(†)-42-(*)-(+)60-48									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

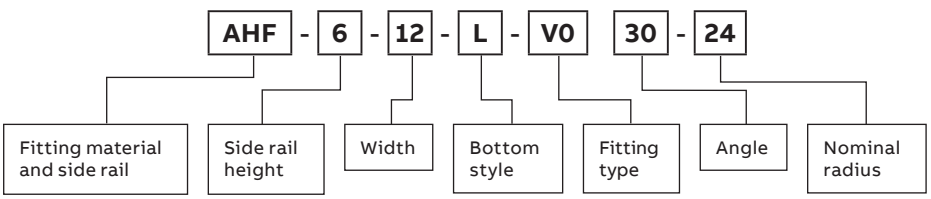
30° H-style vertical bend fittings

30° Vertical bend – H-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	AHF(†)-06-(*)-(+)30-12	11⅝ 295.28	3⅛ 79.38	6³⁄₁₆ 157.16	13¹¹⁄₁₆ 347.66	7⁵⁄₁₆ 185.74	7⁵⁄₁₆ 185.74
			9	228.6	AHF(†)-09-(*)-(+)30-12						
			12	304.8	AHF(†)-12-(*)-(+)30-12						
			18	457.2	AHF(†)-18-(*)-(+)30-12						
			24	609.6	AHF(†)-24-(*)-(+)30-12						
			30	762	AHF(†)-30-(*)-(+)30-12						
			36	914.4	AHF(†)-36-(*)-(+)30-12						
			42	1,066.8	AHF(†)-42-(*)-(+)30-12						
	24	609.6	6	152.4	AHF(†)-06-(*)-(+)30-24	17⅝ 447.68	4¹¹⁄₁₆ 119.06	9⁷⁄₁₆ 239.71	19¹¹⁄₁₆ 500.06	8⅞ 225.43	10⁹⁄₁₆ 268.29
			9	228.6	AHF(†)-09-(*)-(+)30-24						
			12	304.8	AHF(†)-12-(*)-(+)30-24						
			18	457.2	AHF(†)-18-(*)-(+)30-24						
			24	609.6	AHF(†)-24-(*)-(+)30-24						
			30	762	AHF(†)-30-(*)-(+)30-24						
			36	914.4	AHF(†)-36-(*)-(+)30-24						
			42	1,066.8	AHF(†)-42-(*)-(+)30-24						
Inside bend	36	914.4	6	152.4	AHF(†)-06-(*)-(+)30-36	23⅝ 600.08	6³⁄₁₆ 157.16	12⅝ 320.68	25¹¹⁄₁₆ 652.46	10½ 266.70	13¾ 349.25
			9	228.6	AHF(†)-09-(*)-(+)30-36						
			12	304.8	AHF(†)-12-(*)-(+)30-36						
			18	457.2	AHF(†)-18-(*)-(+)30-36						
			24	609.6	AHF(†)-24-(*)-(+)30-36						
			30	762	AHF(†)-30-(*)-(+)30-36						
			36	914.4	AHF(†)-36-(*)-(+)30-36						
			42	1,066.8	AHF(†)-42-(*)-(+)30-36						
	48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)30-48	29⅝ 752.48	7¹¹⁄₁₆ 195.26	15⅞ 403.23	31¹¹⁄₁₆ 804.86	12⅛ 307.98	17 431.80
			9	228.6	AHF(†)-09-(*)-(+)30-48						
			12	304.8	AHF(†)-12-(*)-(+)30-48						
			18	457.2	AHF(†)-18-(*)-(+)30-48						
			24	609.6	AHF(†)-24-(*)-(+)30-48						
			30	762	AHF(†)-30-(*)-(+)30-48						
			36	914.4	AHF(†)-36-(*)-(+)30-48						
			42	1,066.8	AHF(†)-42-(*)-(+)30-48						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

30° Vertical bend – H-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-(+)30-12	14 1/8 358.78	8 3/16 207.96	7 9/16 192.09	14 11/16 373.06	9 3/8 238.13	7 7/8 200.03	13 11/16 347.66	10 5/16 261.94	8 1/8 206.38
		9	228.6	AHF(†)-09-(*)-(+)30-12									
		12	304.8	AHF(†)-12-(*)-(+)30-12									
		18	457.2	AHF(†)-18-(*)-(+)30-12									
		24	609.6	AHF(†)-24-(*)-(+)30-12									
		30	762	AHF(†)-30-(*)-(+)30-12									
		36	914.4	AHF(†)-36-(*)-(+)30-12									
		42	1,066.8	AHF(†)-42-(*)-(+)30-12									
24	609.6	6	152.4	AHF(†)-06-(*)-(+)30-24	20 1/8 511.18	9 13/16 249.24	10 13/16 274.64	20 11/16 525.46	10 15/16 277.81	11 1/8 282.58	19 11/16 500.06	11 15/16 303.21	11 3/8 288.93
		9	228.6	AHF(†)-09-(*)-(+)30-24									
		12	304.8	AHF(†)-12-(*)-(+)30-24									
		18	457.2	AHF(†)-18-(*)-(+)30-24									
		24	609.6	AHF(†)-24-(*)-(+)30-24									
		30	762	AHF(†)-30-(*)-(+)30-24									
		36	914.4	AHF(†)-36-(*)-(+)30-24									
		42	1,066.8	AHF(†)-42-(*)-(+)30-24									
36	914.4	6	152.4	AHF(†)-06-(*)-(+)30-36	26 1/8 663.58	11 3/8 288.93	14 355.60	26 11/16 677.86	12 9/16 319.09	14 5/16 363.54	25 11/16 652.46	13 9/16 344.49	14 9/16 369.89
		9	228.6	AHF(†)-09-(*)-(+)30-36									
		12	304.8	AHF(†)-12-(*)-(+)30-36									
		18	457.2	AHF(†)-18-(*)-(+)30-36									
		24	609.6	AHF(†)-24-(*)-(+)30-36									
		30	762	AHF(†)-30-(*)-(+)30-36									
		36	914.4	AHF(†)-36-(*)-(+)30-36									
		42	1,066.8	AHF(†)-42-(*)-(+)30-36									
48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)30-48	32 1/8 815.98	13 330.20	17 1/4 438.15	32 11/16 830.26	14 3/16 368.30	17 9/16 446.09	31 11/16 804.86	15 1/8 384.18	17 13/16 452.44
		9	228.6	AHF(†)-09-(*)-(+)30-48									
		12	304.8	AHF(†)-12-(*)-(+)30-48									
		18	457.2	AHF(†)-18-(*)-(+)30-48									
		24	609.6	AHF(†)-24-(*)-(+)30-48									
		30	762	AHF(†)-30-(*)-(+)30-48									
		36	914.4	AHF(†)-36-(*)-(+)30-48									
		42	1,066.8	AHF(†)-42-(*)-(+)30-48									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

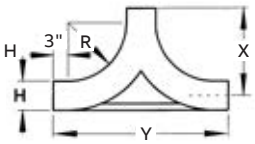
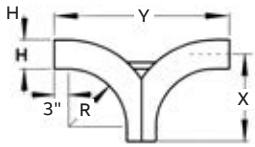
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

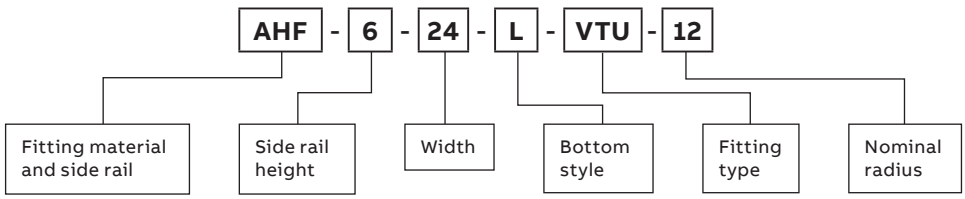
H-style vertical tee up/down fittings

Vertical tee up/down – H-style

	Nominal Radius		Nominal Width				Side rail height "H"			
							4" (101.6mm)		5" (127mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up  	12	304.8	6	152.4	AHF(†)-06-(*)-VTU12	AHF(†)-06-(*)-VTD12	17 1/16 433.39	34 3/16 944.56	17 9/16 446.09	35 1/16 890.59
			9	228.6	AHF(†)-09-(*)-VTU12	AHF(†)-09-(*)-VTD12				
			12	304.8	AHF(†)-12-(*)-VTU12	AHF(†)-12-(*)-VTD12				
			18	457.2	AHF(†)-18-(*)-VTU12	AHF(†)-18-(*)-VTD12				
			24	609.6	AHF(†)-24-(*)-VTU12	AHF(†)-24-(*)-VTD12				
			30	762	AHF(†)-30-(*)-VTU12	AHF(†)-30-(*)-VTD12				
			36	914.4	AHF(†)-36-(*)-VTU12	AHF(†)-36-(*)-VTD12				
			42	1,066.8	AHF(†)-42-(*)-VTU12	AHF(†)-42-(*)-VTD12				
	24	609.6	6	152.4	AHF(†)-06-(*)-VTU24	AHF(†)-06-(*)-VTD24	29 1/16 738.19	58 3/16 1477.96	29 9/16 750.89	59 1/16 1500.19
			9	228.6	AHF(†)-09-(*)-VTU24	AHF(†)-09-(*)-VTD24				
			12	304.8	AHF(†)-12-(*)-VTU24	AHF(†)-12-(*)-VTD24				
			18	457.2	AHF(†)-18-(*)-VTU24	AHF(†)-18-(*)-VTD24				
			24	609.6	AHF(†)-24-(*)-VTU24	AHF(†)-24-(*)-VTD24				
			30	762	AHF(†)-30-(*)-VTU24	AHF(†)-30-(*)-VTD24				
			36	914.4	AHF(†)-36-(*)-VTU24	AHF(†)-36-(*)-VTD24				
			42	1,066.8	AHF(†)-42-(*)-VTU24	AHF(†)-42-(*)-VTD24				
Down  	36	914.4	6	152.4	AHF(†)-06-(*)-VTU36	AHF(†)-06-(*)-VTD36	41 1/16 1042.99	82 3/16 2087.56	41 9/16 1055.69	83 1/16 2109.79
			9	228.6	AHF(†)-09-(*)-VTU36	AHF(†)-09-(*)-VTD36				
			12	304.8	AHF(†)-12-(*)-VTU36	AHF(†)-12-(*)-VTD36				
			18	457.2	AHF(†)-18-(*)-VTU36	AHF(†)-18-(*)-VTD36				
			24	609.6	AHF(†)-24-(*)-VTU36	AHF(†)-24-(*)-VTD36				
			30	762	AHF(†)-30-(*)-VTU36	AHF(†)-30-(*)-VTD36				
			36	914.4	AHF(†)-36-(*)-VTU36	AHF(†)-36-(*)-VTD36				
			42	1,066.8	AHF(†)-42-(*)-VTU36	AHF(†)-42-(*)-VTD36				
	48	1,219.2	6	152.4	AHF(†)-06-(*)-VTU48	AHF(†)-06-(*)-VTD48	53 1/16 1347.79	106 3/16 2697.16	53 9/16 1360.49	107 1/16 2719.39
			9	228.6	AHF(†)-09-(*)-VTU48	AHF(†)-09-(*)-VTD48				
			12	304.8	AHF(†)-12-(*)-VTU48	AHF(†)-12-(*)-VTD48				
			18	457.2	AHF(†)-18-(*)-VTU48	AHF(†)-18-(*)-VTD48				
			24	609.6	AHF(†)-24-(*)-VTU48	AHF(†)-24-(*)-VTD48				
			30	762	AHF(†)-30-(*)-VTU48	AHF(†)-30-(*)-VTD48				
			36	914.4	AHF(†)-36-(*)-VTU48	AHF(†)-36-(*)-VTD48				
			42	1,066.8	AHF(†)-42-(*)-VTU48	AHF(†)-42-(*)-VTD48				

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-Style. These systems are interchangeable.

Fitting number selection

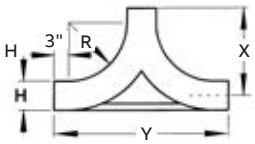


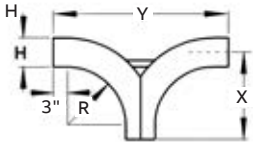
SECTION 5

—

Vertical tee up/down – H-style (continued)

	Nominal Radius		Nominal Width				Side rail height "H"			
							6" (152.4mm)		7" (177.8mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up	12	304.8	6	152.4	AHF(†)-06-(*)-VTU12	AHF(†)-06-(*)-VTD12	18⅛ 460.38	36¼ 920.75	18⅝ 473.08	37¼ 946.15
			9	228.6	AHF(†)-09-(*)-VTU12	AHF(†)-09-(*)-VTD12				
			12	304.8	AHF(†)-12-(*)-VTU12	AHF(†)-12-(*)-VTD12				
			18	457.2	AHF(†)-18-(*)-VTU12	AHF(†)-18-(*)-VTD12				
			24	609.6	AHF(†)-24-(*)-VTU12	AHF(†)-24-(*)-VTD12				
			30	762	AHF(†)-30-(*)-VTU12	AHF(†)-30-(*)-VTD12				
			36	914.4	AHF(†)-36-(*)-VTU12	AHF(†)-36-(*)-VTD12				
			42	1,066.8	AHF(†)-42-(*)-VTU12	AHF(†)-42-(*)-VTD12				
	24	609.6	6	152.4	AHF(†)-06-(*)-VTU24	AHF(†)-06-(*)-VTD24	30⅛ 765.18	60¼ 1530.35	30⅝ 777.88	61¼ 1555.75
			9	228.6	AHF(†)-09-(*)-VTU24	AHF(†)-09-(*)-VTD24				
			12	304.8	AHF(†)-12-(*)-VTU24	AHF(†)-12-(*)-VTD24				
			18	457.2	AHF(†)-18-(*)-VTU24	AHF(†)-18-(*)-VTD24				
			24	609.6	AHF(†)-24-(*)-VTU24	AHF(†)-24-(*)-VTD24				
			30	762	AHF(†)-30-(*)-VTU24	AHF(†)-30-(*)-VTD24				
			36	914.4	AHF(†)-36-(*)-VTU24	AHF(†)-36-(*)-VTD24				
			42	1,066.8	AHF(†)-42-(*)-VTU24	AHF(†)-42-(*)-VTD24				
Down	36	914.4	6	152.4	AHF(†)-06-(*)-VTU36	AHF(†)-06-(*)-VTD36	42⅛ 1069.98	84¼ 2139.95	42⅝ 1082.68	85¼ 2165.35
			9	228.6	AHF(†)-09-(*)-VTU36	AHF(†)-09-(*)-VTD36				
			12	304.8	AHF(†)-12-(*)-VTU36	AHF(†)-12-(*)-VTD36				
			18	457.2	AHF(†)-18-(*)-VTU36	AHF(†)-18-(*)-VTD36				
			24	609.6	AHF(†)-24-(*)-VTU36	AHF(†)-24-(*)-VTD36				
			30	762	AHF(†)-30-(*)-VTU36	AHF(†)-30-(*)-VTD36				
			36	914.4	AHF(†)-36-(*)-VTU36	AHF(†)-36-(*)-VTD36				
			42	1,066.8	AHF(†)-42-(*)-VTU36	AHF(†)-42-(*)-VTD36				
	48	1,219.2	6	152.4	AHF(†)-06-(*)-VTU48	AHF(†)-06-(*)-VTD48	54⅛ 1374.78	108¼ 2749.55	54⅝ 1387.48	109¼ 2774.95
			9	228.6	AHF(†)-09-(*)-VTU48	AHF(†)-09-(*)-VTD48				
			12	304.8	AHF(†)-12-(*)-VTU48	AHF(†)-12-(*)-VTD48				
			18	457.2	AHF(†)-18-(*)-VTU48	AHF(†)-18-(*)-VTD48				
			24	609.6	AHF(†)-24-(*)-VTU48	AHF(†)-24-(*)-VTD48				
			30	762	AHF(†)-30-(*)-VTU48	AHF(†)-30-(*)-VTD48				
			36	914.4	AHF(†)-36-(*)-VTU48	AHF(†)-36-(*)-VTD48				
			42	1,066.8	AHF(†)-42-(*)-VTU48	AHF(†)-42-(*)-VTD48				





(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-Style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

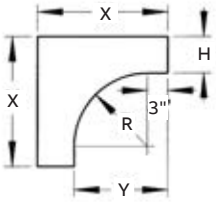
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

H-style cable support fittings

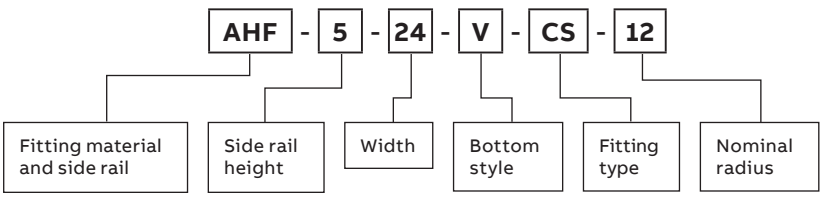
Cable support fitting – H-style



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Side rail height "H" 4" (101.6mm) X (in) / (mm)	4" (101.6mm) Y (in) / (mm)	5" (127mm) X (in) / (mm)	5" (127mm) Y (in) / (mm)	6" (152.4mm) X (in) / (mm)	6" (152.4mm) Y (in) / (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-(+)90-12	19 3/16 487.36	15 381.00	20 1/16 509.59	15 381.00	21 1/4 539.75	15 381.00
		9	228.6	AHF(†)-09-(*)-(+)90-12						
		12	304.8	AHF(†)-12-(*)-(+)90-12						
		18	457.2	AHF(†)-18-(*)-(+)90-12						
		24	609.6	AHF(†)-24-(*)-(+)90-12						
		30	762	AHF(†)-30-(*)-(+)90-12						
		36	914.4	AHF(†)-36-(*)-(+)90-12						
		42	1,066.8	AHF(†)-42-(*)-(+)90-12						
24	609.6	6	152.4	AHF(†)-06-(*)-(+)90-24	31 3/16 792.16	27 685.80	32 1/16 814.39	27 685.80	33 1/4 844.55	27 685.80
		9	228.6	AHF(†)-09-(*)-(+)90-24						
		12	304.8	AHF(†)-12-(*)-(+)90-24						
		18	457.2	AHF(†)-18-(*)-(+)90-24						
		24	609.6	AHF(†)-24-(*)-(+)90-24						
		30	762	AHF(†)-30-(*)-(+)90-24						
		36	914.4	AHF(†)-36-(*)-(+)90-24						
		42	1,066.8	AHF(†)-42-(*)-(+)90-24						
36	914.4	6	152.4	AHF(†)-06-(*)-(+)90-36	43 3/16 1096.96	39 990.60	44 1/16 1119.19	39 990.60	45 1/4 1149.35	39 990.60
		9	228.6	AHF(†)-09-(*)-(+)90-36						
		12	304.8	AHF(†)-12-(*)-(+)90-36						
		18	457.2	AHF(†)-18-(*)-(+)90-36						
		24	609.6	AHF(†)-24-(*)-(+)90-36						
		30	762	AHF(†)-30-(*)-(+)90-36						
		36	914.4	AHF(†)-36-(*)-(+)90-36						
		42	1,066.8	AHF(†)-42-(*)-(+)90-36						
48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)90-48	55 3/16 1401.76	51 1295.40	56 1/16 1423.99	51 1295.40	57 1/4 1454.15	51 1295.40
		9	228.6	AHF(†)-09-(*)-(+)90-48						
		12	304.8	AHF(†)-12-(*)-(+)90-48						
		18	457.2	AHF(†)-18-(*)-(+)90-48						
		24	609.6	AHF(†)-24-(*)-(+)90-48						
		30	762	AHF(†)-30-(*)-(+)90-48						
		36	914.4	AHF(†)-36-(*)-(+)90-48						
		42	1,066.8	AHF(†)-42-(*)-(+)90-48						

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection

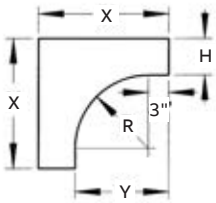


SECTION 5

—

Cable support fitting – H-style (continued)

Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Side rail height "H" 7" (177.8mm) X (in) / (mm)	Side rail height "H" 7" (177.8mm) Y (in) / (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-(+)90-12	22¼ 565.15	15 381.00
		9	228.6	AHF(†)-09-(*)-(+)90-12		
		12	304.8	AHF(†)-12-(*)-(+)90-12		
		18	457.2	AHF(†)-18-(*)-(+)90-12		
		24	609.6	AHF(†)-24-(*)-(+)90-12		
		30	762	AHF(†)-30-(*)-(+)90-12		
		36	914.4	AHF(†)-36-(*)-(+)90-12		
		42	1,066.8	AHF(†)-42-(*)-(+)90-12		
24	609.6	6	152.4	AHF(†)-06-(*)-(+)90-24	34¼ 869.95	27 685.80
		9	228.6	AHF(†)-09-(*)-(+)90-24		
		12	304.8	AHF(†)-12-(*)-(+)90-24		
		18	457.2	AHF(†)-18-(*)-(+)90-24		
		24	609.6	AHF(†)-24-(*)-(+)90-24		
		30	762	AHF(†)-30-(*)-(+)90-24		
		36	914.4	AHF(†)-36-(*)-(+)90-24		
		42	1,066.8	AHF(†)-42-(*)-(+)90-24		
36	914.4	6	152.4	AHF(†)-06-(*)-(+)90-36	46¼ 1174.75	39 990.60
		9	228.6	AHF(†)-09-(*)-(+)90-36		
		12	304.8	AHF(†)-12-(*)-(+)90-36		
		18	457.2	AHF(†)-18-(*)-(+)90-36		
		24	609.6	AHF(†)-24-(*)-(+)90-36		
		30	762	AHF(†)-30-(*)-(+)90-36		
		36	914.4	AHF(†)-36-(*)-(+)90-36		
		42	1,066.8	AHF(†)-42-(*)-(+)90-36		
48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)90-48	58¼ 1479.55	51 1295.40
		9	228.6	AHF(†)-09-(*)-(+)90-48		
		12	304.8	AHF(†)-12-(*)-(+)90-48		
		18	457.2	AHF(†)-18-(*)-(+)90-48		
		24	609.6	AHF(†)-24-(*)-(+)90-48		
		30	762	AHF(†)-30-(*)-(+)90-48		
		36	914.4	AHF(†)-36-(*)-(+)90-48		
		42	1,066.8	AHF(†)-42-(*)-(+)90-48		



(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

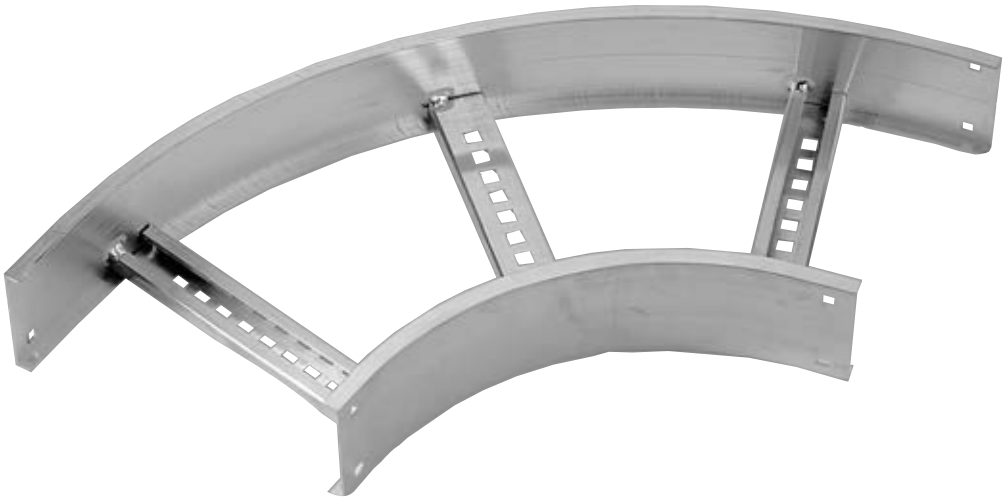
—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

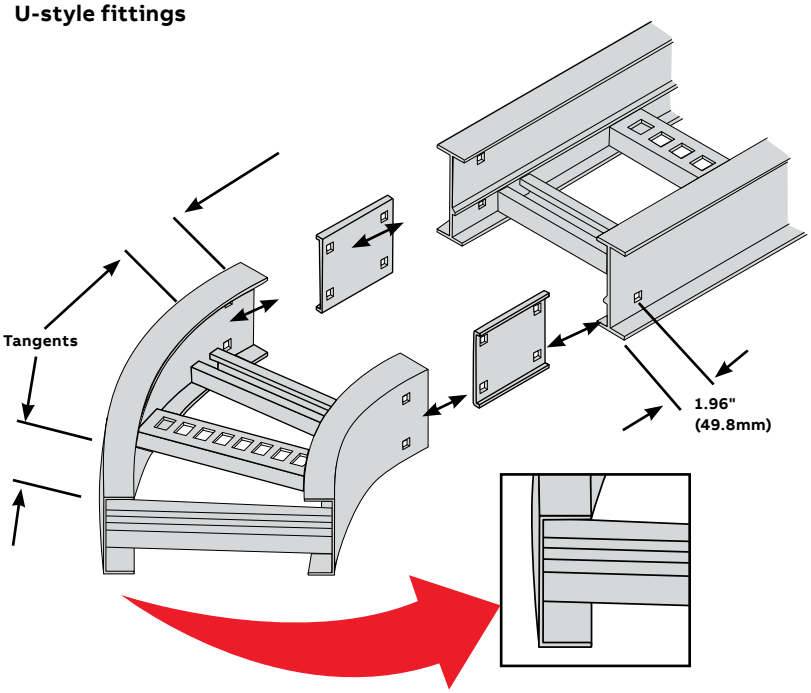
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum
U-style horizontal bend fittings



U-style fittings



U-style

U-style fittings constructed with side rail flanges on the inside only (U-beam).*

Features and benefits

- U-style and H-style are interchangeable
- Economical & functional design
- Easy to install
- Occupies less space in areas where space is restrained
- Easy-to-align straights
- Splice plate holds components together while hardware is inserted
- Lighter fittings are easy to handle
- 7" (177.8mm) length snap-in splice plate

* NOTE: T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Horizontal fittings selection

*NOTE: The U-style and H-style systems are interchangeable.

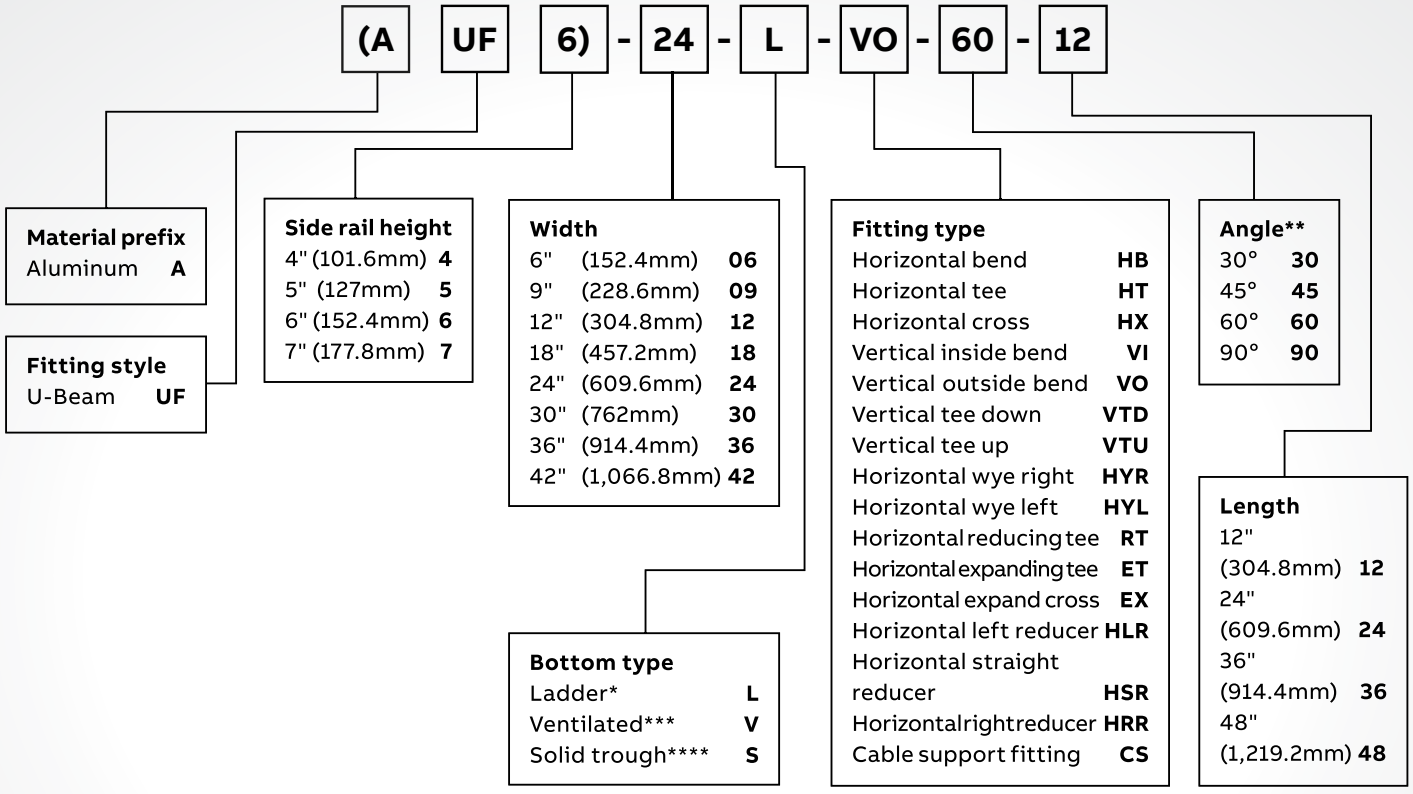
How to create catalogue numbers
Fitting part numbers are based on a range of selection criteria, dependent on the type of fitting and the role undertaken in the cable ladder system.

Over the following pages, the selection criteria for each fitting type is established in table form.

Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown. Images of fittings are provided to assist with selection.

U-style fitting
- A U-shaped extrusion forms the fitting side rail.
- U-style fittings utilize a 7" (177.8mm) splice plate and the fittings have tangents at the extremities.
- This style offers maximum quality versus cost ratios of the installation.

Method
1. Material type
2. Siderail height & ladder width(s)
3. Bottom type and fitting type
4. Angle
5. Nominal radius



Key

**	=	Angle is required for HB, VI, VO only
†	=	Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR
*	=	Manufactured with 9" (228.6mm) rung spacing measured at the center line of fitting
***	=	Manufactured with 4" (101.6mm) edge to edge rung spacing measured at the center line of fitting
****	=	Manufactured with flat sheet inserted under rungs with 9" (228.6mm) rung spacing measured at the center line of fitting

NOTE: The following special options are available.
To order, add the indicated suffix to the very end of the catalog number:

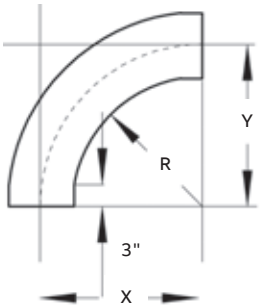
FO	=	Flange out	**MR**	=	Marine rung alternated
G	=	Ground holes (specify locations and size)	**UM**	=	Marine rung holes up
H	=	Stainless steel type 316 hardware nuts and bolts	**RU**	=	Rung with square holes on top
			FR	=	Flat rung

Contact your ABB representative for additional options.

Metallic - Aluminum fittings

90°/60° U-style horizontal bend fittings

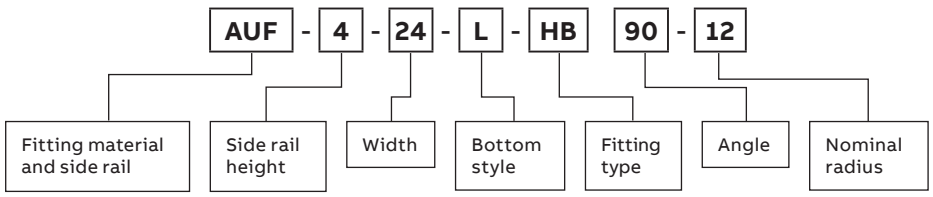
90° Horizontal bend – U-style



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	6	152.4	AUF(†)-06-(*)-HB90-12	15	381.00	15	381.00
		9	228.6	AUF(†)-09-(*)-HB90-12	16½	419.10	16½	419.10
		12	304.8	AUF(†)-12-(*)-HB90-12	18	457.20	18	457.20
		18	457.2	AUF(†)-18-(*)-HB90-12	21	533.40	21	533.40
		24	609.6	AUF(†)-24-(*)-HB90-12	24	609.60	24	609.60
		30	762	AUF(†)-30-(*)-HB90-12	27	685.80	27	685.80
		36	914.4	AUF(†)-36-(*)-HB90-12	30	762.00	30	762.00
		42	1,066.8	AUF(†)-42-(*)-HB90-12	33	838.20	33	838.20
24	609.6	6	152.4	AUF(†)-06-(*)-HB90-24	27	685.80	27	685.80
		9	228.6	AUF(†)-09-(*)-HB90-24	28½	723.90	28½	723.90
		12	304.8	AUF(†)-12-(*)-HB90-24	30	762.00	30	762.00
		18	457.2	AUF(†)-18-(*)-HB90-24	33	838.20	33	838.20
		24	609.6	AUF(†)-24-(*)-HB90-24	36	914.40	36	914.40
		30	762	AUF(†)-30-(*)-HB90-24	39	990.60	39	990.60
		36	914.4	AUF(†)-36-(*)-HB90-24	42	1066.80	42	1066.80
		42	1,066.8	AUF(†)-42-(*)-HB90-24	45	1143.00	45	1143.00
36	914.4	6	152.4	AUF(†)-06-(*)-HB90-36	39	990.60	39	990.60
		9	228.6	AUF(†)-09-(*)-HB90-36	40½	1028.70	40½	1028.70
		12	304.8	AUF(†)-12-(*)-HB90-36	45	1143.00	45	1143.00
		18	457.2	AUF(†)-18-(*)-HB90-36	48	1219.20	48	1219.20
		24	609.6	AUF(†)-24-(*)-HB90-36	48	1219.20	48	1219.20
		30	762	AUF(†)-30-(*)-HB90-36	51	1295.40	51	1295.40
		36	914.4	AUF(†)-36-(*)-HB90-36	54	1371.60	54	1371.60
		42	1,066.8	AUF(†)-42-(*)-HB90-36	57	1447.80	57	1447.80
48	1,219.2	6	152.4	AUF(†)-06-(*)-HB90-48	51	1295.40	51	1295.40
		9	228.6	AUF(†)-09-(*)-HB90-48	52½	1333.50	52½	1333.50
		12	304.8	AUF(†)-12-(*)-HB90-48	54	1371.60	54	1371.60
		18	457.2	AUF(†)-18-(*)-HB90-48	57	1447.80	57	1447.80
		24	609.6	AUF(†)-24-(*)-HB90-48	60	1524.00	60	1524.00
		30	762	AUF(†)-30-(*)-HB90-48	63	1600.20	63	1600.20
		36	914.4	AUF(†)-36-(*)-HB90-48	66	1676.40	66	1676.40
		42	1,066.8	AUF(†)-42-(*)-HB90-48	69	1752.60	69	1752.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

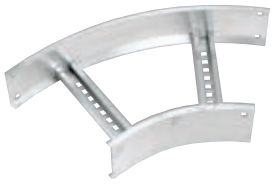
Fitting number selection

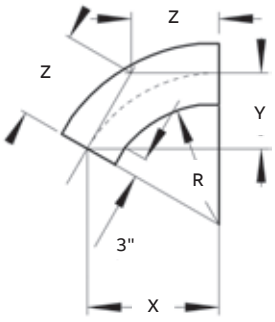


SECTION 6

—

60° Horizontal bend – H-style





Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	AUF(†)-06-(*)-HB60-12	14⅞	377.83	8⅝	219.08	9¹⁵⁄₁₆	252.41
		9	228.6	AUF(†)-09-(*)-HB60-12	16³⁄₁₆	411.16	9⅜	238.13	10¹³⁄₁₆	274.64
		12	304.8	AUF(†)-12-(*)-HB60-12	17½	444.50	10⅛	257.18	11¹¹⁄₁₆	296.86
		18	457.2	AUF(†)-18-(*)-HB60-12	20¹⁄₁₆	509.59	11⅝	295.28	13⅜	339.73
		24	609.6	AUF(†)-24-(*)-HB60-12	22¹¹⁄₁₆	576.26	13⅛	333.38	15⅛	384.18
		30	762	AUF(†)-30-(*)-HB60-12	25⁵⁄₁₆	642.94	14⅝	371.48	16⅞	428.63
		36	914.4	AUF(†)-36-(*)-HB60-12	27⅞	708.03	16⅛	409.58	18⁹⁄₁₆	471.49
		42	1,066.8	AUF(†)-42-(*)-HB60-12	30½	774.70	17⅝	447.68	20⁵⁄₁₆	515.94
24	609.6	6	152.4	AUF(†)-06-(*)-HB60-24	25⁵⁄₁₆	896.94	14⅝	371.48	16⅞	428.63
		9	228.6	AUF(†)-09-(*)-HB60-24	26⁹⁄₁₆	674.69	15⅜	390.53	17¾	450.85
		12	304.8	AUF(†)-12-(*)-HB60-24	27⅞	708.03	16⅛	409.58	18⁹⁄₁₆	471.49
		18	457.2	AUF(†)-18-(*)-HB60-24	30½	774.70	17⅝	447.68	20⁵⁄₁₆	515.94
		24	609.6	AUF(†)-24-(*)-HB60-24	33¹⁄₁₆	839.79	19⅛	485.78	22¹⁄₁₆	560.39
		30	762	AUF(†)-30-(*)-HB60-24	35¹¹⁄₁₆	906.46	20⅝	523.88	23¹³⁄₁₆	350.84
		36	914.4	AUF(†)-36-(*)-HB60-24	38¼	971.55	22⅛	561.98	25½	647.70
		42	1,066.8	AUF(†)-42-(*)-HB60-24	40⅞	1038.23	23⅝	600.08	27¼	692.15
36	914.4	6	152.4	AUF(†)-06-(*)-HB60-36	35¹¹⁄₁₆	906.46	20⅝	523.88	30¹¹⁄₁₆	779.46
		9	228.6	AUF(†)-09-(*)-HB60-36	37	939.80	22⅛	561.98	26⅜	669.93
		12	304.8	AUF(†)-12-(*)-HB60-36	38¼	971.55	23⅝	600.08	27¼	692.15
		18	457.2	AUF(†)-18-(*)-HB60-36	40⅞	1038.23	23⅝	600.08	29	736.60
		24	609.6	AUF(†)-24-(*)-HB60-36	43½	1104.90	25⅛	638.18	30¹¹⁄₁₆	779.46
		30	762	AUF(†)-30-(*)-HB60-36	46¹⁄₁₆	1169.99	25⅝	650.88	32⁷⁄₁₆	823.91
		36	914.4	AUF(†)-36-(*)-HB60-36	48¹¹⁄₁₆	1236.66	28⅛	714.38	34³⁄₁₆	868.36
		42	1,066.8	AUF(†)-42-(*)-HB60-36	51¼	1301.75	29⅝	752.48	35⁵⁄₁₆	896.94
48	1,219.2	6	152.4	AUF(†)-06-(*)-HB60-48	46¹⁄₁₆	1169.99	26⅝	676.28	30¹¹⁄₁₆	779.46
		9	228.6	AUF(†)-09-(*)-HB60-48	47⅜	1203.33	27⅜	695.33	31⁹⁄₁₆	801.69
		12	304.8	AUF(†)-12-(*)-HB60-48	48¹¹⁄₁₆	1236.66	28⅛	714.38	32⁷⁄₁₆	823.91
		18	457.2	AUF(†)-18-(*)-HB60-48	51⁷⁄₁₆	1317.63	29⅝	752.48	34³⁄₁₆	868.36
		24	609.6	AUF(†)-24-(*)-HB60-48	53⅞	1368.43	31⅛	790.58	35¹⁵⁄₁₆	912.81
		30	762	AUF(†)-30-(*)-HB60-48	56⁷⁄₁₆	1433.51	32⅝	828.68	37⅝	911.23
		36	914.4	AUF(†)-36-(*)-HB60-48	59¹⁄₁₆	1500.19	34⅛	866.78	39⅜	1000.13
		42	1,066.8	AUF(†)-42-(*)-HB60-48	61¹¹⁄₁₆	1566.86	35⅝	904.88	41⅛	1044.58

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

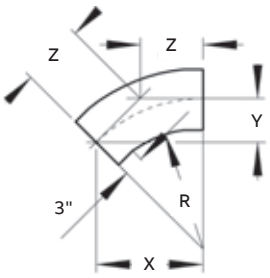
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°, 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

45°/30° U-style horizontal bend fittings

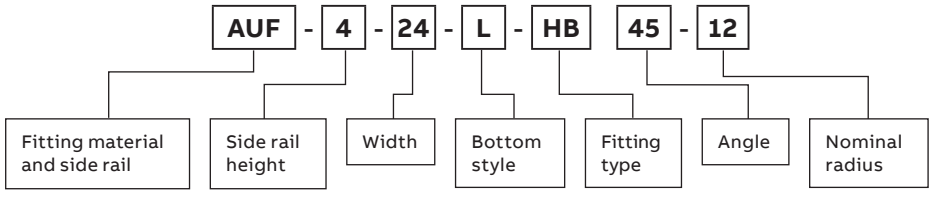
45° Horizontal bend – U-style

Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	AUF(†)-06-(*)-HB45-12	13⅜	346.08	5⅝	142.88	8	203.20
		9	228.6	AUF(†)-09-(*)-HB45-12	14¹¹⁄₁₆	373.06	6¹⁄₁₆	153.99	8⁹⁄₁₆	217.49
		12	304.8	AUF(†)-12-(*)-HB45-12	15¾	400.05	6½	165.10	9³⁄₁₆	233.36
		18	457.2	AUF(†)-18-(*)-HB45-12	17⅞	454.03	7⅜	187.33	10⁷⁄₁₆	265.11
		24	609.6	AUF(†)-24-(*)-HB45-12	20	508.00	8¼	209.55	11¹¹⁄₁₆	296.86
		30	762	AUF(†)-30-(*)-HB45-12	22¹⁄₁₆	560.39	9⅛	231.78	12¹⁵⁄₁₆	328.61
		36	914.4	AUF(†)-36-(*)-HB45-12	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		42	1,066.8	AUF(†)-42-(*)-HB45-12	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	15⁷⁄₁₆	392.11
24	609.6	6	152.4	AUF(†)-06-(*)-HB45-12	22¹⁄₁₆	560.39	9⅛	231.78	12¹⁵⁄₁₆	328.61
		9	228.6	AUF(†)-09-(*)-HB45-12	23⅛	587.38	9⁹⁄₁₆	242.89	13⁹⁄₁₆	344.49
		12	304.8	AUF(†)-12-(*)-HB45-12	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		18	457.2	AUF(†)-18-(*)-HB45-12	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	15⁷⁄₁₆	392.11
		24	609.6	AUF(†)-24-(*)-HB45-12	28⁷⁄₁₆	722.31	11¹³⁄₁₆	300.04	16¹¹⁄₁₆	423.86
		30	762	AUF(†)-30-(*)-HB45-12	30⁹⁄₁₆	776.29	12¹¹⁄₁₆	322.26	17¹⁵⁄₁₆	455.61
		36	914.4	AUF(†)-36-(*)-HB45-12	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19⅛	485.78
		42	1,066.8	AUF(†)-42-(*)-HB45-12	34¹³⁄₁₆	884.24	14⅞	377.83	20⅜	517.53
36	914.4	6	152.4	AUF(†)-06-(*)-HB45-12	30⁹⁄₁₆	776.29	12¹¹⁄₁₆	322.26	17¹⁵⁄₁₆	455.61
		9	228.6	AUF(†)-09-(*)-HB45-12	31⅝	803.28	13⅛	333.38	18⁹⁄₁₆	471.49
		12	304.8	AUF(†)-12-(*)-HB45-12	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19⅛	485.78
		18	457.2	AUF(†)-18-(*)-HB45-12	34¹³⁄₁₆	884.24	14⁷⁄₁₆	366.71	20⅜	517.53
		24	609.6	AUF(†)-24-(*)-HB45-12	36¹⁵⁄₁₆	938.21	15⁵⁄₁₆	388.94	21⅝	549.28
		30	762	AUF(†)-30-(*)-HB45-12	39¹⁄₁₆	992.19	16³⁄₁₆	411.16	22⅞	581.03
		36	914.4	AUF(†)-36-(*)-HB45-12	41³⁄₁₆	1046.16	17¹⁄₁₆	433.39	24⅛	612.78
		42	1,066.8	AUF(†)-42-(*)-HB45-12	43⅜	1100.14	17¹⁵⁄₁₆	455.61	25⅜	644.53
48	1,219.2	6	152.4	AUF(†)-06-(*)-HB45-12	39¹⁄₁₆	992.19	16³⁄₁₆	411.16	22⅞	581.03
		9	228.6	AUF(†)-09-(*)-HB45-12	40⅛	1019.18	16⅜	415.93	23½	596.90
		12	304.8	AUF(†)-12-(*)-HB45-12	41³⁄₁₆	1046.16	17¹⁄₁₆	433.39	24⅛	612.78
		18	457.2	AUF(†)-18-(*)-HB45-12	43⅜	1100.14	17¹⁵⁄₁₆	455.61	25⅜	644.53
		24	609.6	AUF(†)-24-(*)-HB45-12	45⁷⁄₁₆	1154.11	18¹³⁄₁₆	477.84	26⅝	676.28
		30	762	AUF(†)-30-(*)-HB45-12	47⅝	1208.09	19¹¹⁄₁₆	500.06	27⅞	708.03
		36	914.4	AUF(†)-36-(*)-HB45-12	49¹¹⁄₁₆	1262.06	20⅝	522.29	29⅛	739.78
		42	1,066.8	AUF(†)-42-(*)-HB45-12	51¹³⁄₁₆	1316.04	21⁷⁄₁₆	544.51	30⁵⁄₁₆	769.94



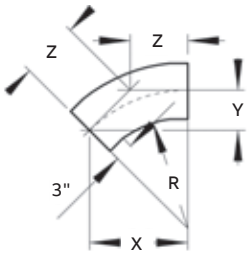
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



SECTION 6

30° Horizontal bend – U-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	AUF(†)-06-(*)-HB30-12	11⅝	295.28	3⅛	79.38	6³⁄₁₆	157.16
		9	228.6	AUF(†)-09-(*)-HB30-12	12⅜	314.33	3⁵⁄₁₆	84.14	6⅝	168.28
		12	304.8	AUF(†)-12-(*)-HB30-12	13½	342.90	3½	88.90	7	177.80
		18	457.2	AUF(†)-18-(*)-HB30-12	14⅝	371.48	3¹⁵⁄₁₆	795.34	7¹³⁄₁₆	198.44
		24	609.6	AUF(†)-24-(*)-HB30-12	16⅛	409.58	4⅝	109.54	8⅝	219.08
		30	762	AUF(†)-30-(*)-HB30-12	17⅝	447.68	4¹¹⁄₁₆	119.06	9⁷⁄₁₆	239.71
		36	914.4	AUF(†)-36-(*)-HB30-12	19⅛	485.78	5⅛	130.18	10¼	260.35
		42	1,066.8	AUF(†)-42-(*)-HB30-12	20⅝	523.88	5½	139.70	11¹⁄₁₆	280.99
24	609.6	6	152.4	AUF(†)-06-(*)-HB30-12	17⅝	447.68	4¹¹⁄₁₆	119.06	9⁷⁄₁₆	239.71
		9	228.6	AUF(†)-09-(*)-HB30-12	18⅜	466.73	4¹⁵⁄₁₆	125.41	9¹³⁄₁₆	249.24
		12	304.8	AUF(†)-12-(*)-HB30-12	19⅛	485.78	5²⁄₁₆	130.18	10¹⁴⁄₁₆	276.23
		18	457.2	AUF(†)-18-(*)-HB30-12	20⅝	523.88	5⅝	139.70	11¹⁄₁₆	280.99
		24	609.6	AUF(†)-24-(*)-HB30-12	22⅛	561.98	5¹⁵⁄₁₆	150.81	11¹³⁄₁₆	300.04
		30	762	AUF(†)-30-(*)-HB30-12	23⅝	600.08	6⁵⁄₁₆	160.34	12⅝	320.68
		36	914.4	AUF(†)-36-(*)-HB30-12	25⅛	638.18	6¹²⁄₁₆	171.45	13⁷⁄₁₆	341.31
		42	1,066.8	AUF(†)-42-(*)-HB30-12	26⅝	676.28	7⅛	180.98	14¼	361.95
36	914.4	6	152.4	AUF(†)-06-(*)-HB30-12	23⅝	600.08	6⁵⁄₁₆	160.34	12⅝	320.68
		9	228.6	AUF(†)-09-(*)-HB30-12	24⅜	619.13	6½	165.10	13¹⁄₁₆	331.79
		12	304.8	AUF(†)-12-(*)-HB30-12	25⅛	638.18	6¾	171.45	13⁷⁄₁₆	341.31
		18	457.2	AUF(†)-18-(*)-HB30-12	26⅝	676.28	7¼	184.15	14½	368.30
		24	609.6	AUF(†)-24-(*)-HB30-12	28⅛	714.38	7½	190.50	15¹⁄₁₆	382.59
		30	762	AUF(†)-30-(*)-HB30-12	29⅝	752.48	7¹⁵⁄₁₆	201.61	15⅞	403.23
		36	914.4	AUF(†)-36-(*)-HB30-12	31⅛	790.58	8⁵⁄₁₆	211.14	16¹¹⁄₁₆	423.86
		42	1,066.8	AUF(†)-42-(*)-HB30-12	32⅝	828.68	8¾	222.25	17½	444.50
48	1,219.2	6	152.4	AUF(†)-06-(*)-HB30-12	29⅝	752.48	7¹⁵⁄₁₆	201.61	15⅞	403.23
		9	228.6	AUF(†)-09-(*)-HB30-12	30⅜	771.53	8⅛	206.38	16¹¹⁄₁₆	423.86
		12	304.8	AUF(†)-12-(*)-HB30-12	31⅛	790.58	8⁵⁄₁₆	211.14	17¹⁄₁₆	433.39
		18	457.2	AUF(†)-18-(*)-HB30-12	32⅝	828.68	8¾	222.25	17½	444.50
		24	609.6	AUF(†)-24-(*)-HB30-12	34⅛	866.78	9⅛	231.78	18¼	463.55
		30	762	AUF(†)-30-(*)-HB30-12	35⅝	904.88	9⁹⁄₁₆	242.89	19¹⁄₁₆	484.19
		36	914.4	AUF(†)-36-(*)-HB30-12	37⅛	942.98	9¹⁵⁄₁₆	252.41	19⅞	504.83
		42	1,066.8	AUF(†)-42-(*)-HB30-12	38⅝	981.08	10⁵⁄₁₆	261.94	20¹¹⁄₁₆	525.46

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

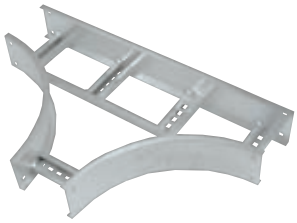
Selection guide

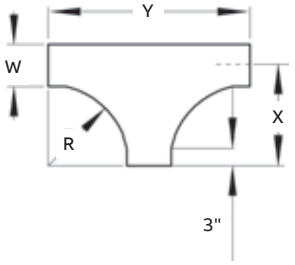
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°, 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

U-style horizontal tee and cross fittings

Horizontal tee – U-style

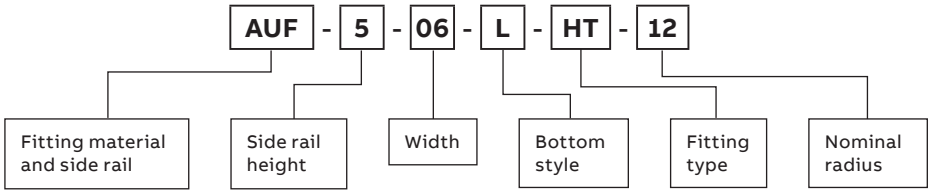




Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	6	152.4	AUF(†)-06-(*)-HT12	15	381.00	30	762.00
		9	228.6	AUF(†)-09-(*)-HT12	16½	419.10	33	838.20
		12	304.8	AUF(†)-12-(*)-HT12	18	457.20	36	914.40
		18	457.2	AUF(†)-18-(*)-HT12	21	533.40	42	1066.80
		24	609.6	AUF(†)-24-(*)-HT12	24	609.60	48	1219.20
		30	762	AUF(†)-30-(*)-HT12	27	685.80	54	1371.60
		36	914.4	AUF(†)-36-(*)-HT12	30	762.00	60	1524.00
		42	1,066.8	AUF(†)-42-(*)-HT12	33	838.20	66	1676.40
24	609.6	6	152.4	AUF(†)-06-(*)-HT24	27	685.80	54	1371.60
		9	228.6	AUF(†)-09-(*)-HT24	28½	723.90	57	1447.80
		12	304.8	AUF(†)-12-(*)-HT24	30	762.00	60	1524.00
		18	457.2	AUF(†)-18-(*)-HT24	33	838.20	66	1676.40
		24	609.6	AUF(†)-24-(*)-HT24	36	914.40	72	1828.80
		30	762	AUF(†)-30-(*)-HT24	39	990.60	78	1981.20
		36	914.4	AUF(†)-36-(*)-HT24	42	1066.80	84	2133.60
		42	1,066.8	AUF(†)-42-(*)-HT24	45	1143.00	90	2286.00
36	914.4	6	152.4	AUF(†)-06-(*)-HT36	39	990.60	78	1981.20
		9	228.6	AUF(†)-09-(*)-HT36	40½	1028.70	81	2057.40
		12	304.8	AUF(†)-12-(*)-HT36	42	1066.80	84	2133.60
		18	457.2	AUF(†)-18-(*)-HT36	45	1143.00	90	2286.00
		24	609.6	AUF(†)-24-(*)-HT36	48	1219.20	96	2438.40
		30	762	AUF(†)-30-(*)-HT36	51	1295.40	102	2590.80
		36	914.4	AUF(†)-36-(*)-HT36	54	1371.60	108	2743.20
		42	1,066.8	AUF(†)-42-(*)-HT36	57	1447.80	114	2895.60
48	1,219.2	6	152.4	AUF(†)-06-(*)-HT48	51	1295.40	102	2590.80
		9	228.6	AUF(†)-09-(*)-HT48	52½	1333.50	105	2667.00
		12	304.8	AUF(†)-12-(*)-HT48	57	1447.80	108	2743.20
		18	457.2	AUF(†)-18-(*)-HT48	57	1447.80	114	2895.60
		24	609.6	AUF(†)-24-(*)-HT48	60	1524.00	120	3048.00
		30	762	AUF(†)-30-(*)-HT48	63	1600.20	126	3200.40
		36	914.4	AUF(†)-36-(*)-HT48	66	1676.40	132	3352.80
		42	1,066.8	AUF(†)-42-(*)-HT48	69	1752.60	138	3505.20

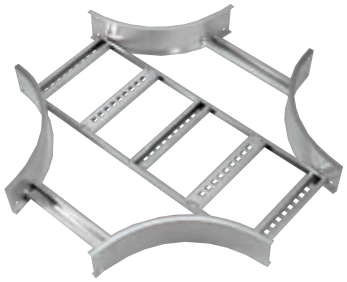
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection

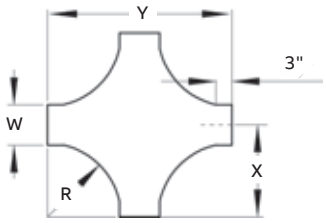


—

Horizontal cross – U-style



Nominal Radius		Nominal Width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12"	304.8	6"	152.4mm	AUF(†)-06-(*)-HX12	15	381.00	30	762.00
		9"	228.6mm	AUF(†)-09-(*)-HX12	16½	419.10	33	838.20
		12"	304.8mm	AUF(†)-12-(*)-HX12	18	457.20	36	914.40
		18"	457.2mm	AUF(†)-18-(*)-HX12	21	533.40	42	1066.80
		24"	609.6mm	AUF(†)-24-(*)-HX12	24	609.60	48	1219.20
		30"	762mm	AUF(†)-30-(*)-HX12	27	685.80	54	1371.60
		36"	914.4mm	AUF(†)-36-(*)-HX12	30	762.00	60	1524.00
		42"	1,066.8mm	AUF(†)-42-(*)-HX12	33	838.20	66	1676.40
24"	609.6	6"	152.4mm	AUF(†)-06-(*)-HX12	27	685.80	54	1371.60
		9"	228.6mm	AUF(†)-09-(*)-HX12	28½	723.90	57	1447.80
		12"	304.8mm	AUF(†)-12-(*)-HX12	30	762.00	60	1524.00
		18"	457.2mm	AUF(†)-18-(*)-HX12	33	838.20	66	1676.40
		24"	609.6mm	AUF(†)-24-(*)-HX12	36	914.40	72	1828.80
		30"	762mm	AUF(†)-30-(*)-HX12	39	990.60	78	1981.20
		36"	914.4mm	AUF(†)-36-(*)-HX12	42	1066.80	84	2133.60
		42"	1,066.8mm	AUF(†)-42-(*)-HX12	45	1143.00	90	2286.00
36"	914.4	6"	152.4mm	AUF(†)-06-(*)-HX12	39	990.60	78	1981.20
		9"	228.6mm	AUF(†)-09-(*)-HX12	40½	1028.70	81	2057.40
		12"	304.8mm	AUF(†)-12-(*)-HX12	42	1066.80	84	2133.60
		18"	457.2mm	AUF(†)-18-(*)-HX12	45	1143.00	90	2286.00
		24"	609.6mm	AUF(†)-24-(*)-HX12	48	1219.20	96	2438.40
		30"	762mm	AUF(†)-30-(*)-HX12	51	1295.40	102	2590.80
		36"	914.4mm	AUF(†)-36-(*)-HX12	54	1371.60	108	2743.20
		42"	1,066.8mm	AUF(†)-42-(*)-HX12	57	1447.80	114	2895.60
48"	1,219.2	6"	152.4mm	AUF(†)-06-(*)-HX12	51	1295.40	102	2590.80
		9"	228.6mm	AUF(†)-09-(*)-HX12	52½	1333.50	105	2667.00
		12"	304.8mm	AUF(†)-12-(*)-HX12	57	1447.80	108	2743.20
		18"	457.2mm	AUF(†)-18-(*)-HX12	57	1447.80	114	2895.60
		24"	609.6mm	AUF(†)-24-(*)-HX12	60	1524.00	120	3048.00
		30"	762mm	AUF(†)-30-(*)-HX12	63	1600.20	126	3200.40
		36"	914.4mm	AUF(†)-36-(*)-HX12	66	1676.40	132	3352.80
		42"	1,066.8mm	AUF(†)-42-(*)-HX12	69	1752.60	138	3505.20



(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

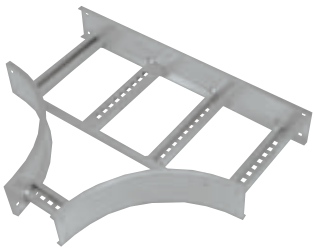
Selection guide

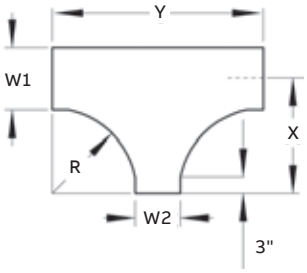
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

U-style horizontal reducing tee

Horizontal reducing tee – U-style

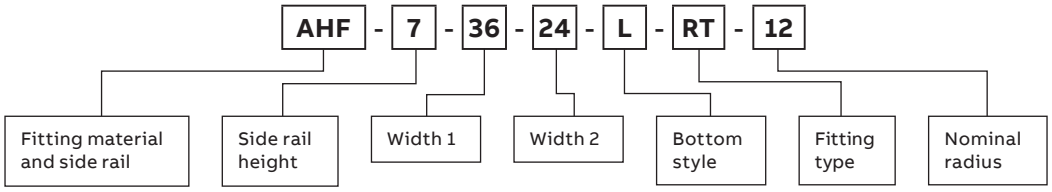




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	AUF(†)-4236-(*)-RT(+)	33	838.20	60	1524.00	45	1143.00	84	2133.60
		30	762	AUF(†)-4230-(*)-RT(+)	33	838.20	54	1371.60	45	1143.00	78	1981.20
		24	609.6	AUF(†)-4224-(*)-RT(+)	33	838.20	48	1219.20	45	1143.00	72	1828.80
		18	457.2	AUF(†)-4218-(*)-RT(+)	33	838.20	42	1066.80	45	1143.00	66	1676.40
		12	304.8	AUF(†)-4212-(*)-RT(+)	33	838.20	36	914.40	45	1143.00	60	1524.00
		9	228.6	AUF(†)-4209-(*)-RT(+)	33	838.20	33	838.20	45	1143.00	57	1447.80
		6	152.4	AUF(†)-4206-(*)-RT(+)	33	838.20	30	762.00	45	1143.00	54	1371.60
36	914.4	30	762	AUF(†)-3630-(*)-RT(+)	30	762.00	54	1371.60	42	1066.80	78	1981.20
		24	609.6	AUF(†)-3624-(*)-RT(+)	30	762.00	48	1219.20	42	1066.80	72	1828.80
		18	457.2	AUF(†)-3618-(*)-RT(+)	30	762.00	42	1066.80	42	1066.80	66	1676.40
		12	304.8	AUF(†)-3612-(*)-RT(+)	30	762.00	36	914.40	42	1066.80	60	1524.00
		9	228.6	AUF(†)-3609-(*)-RT(+)	30	762.00	33	838.20	42	1066.80	57	1447.80
		6	152.4	AUF(†)-3606-(*)-RT(+)	30	762.00	30	762.00	42	1066.80	54	1371.60
30	762	24	609.6	AUF(†)-3024-(*)-RT(+)	27	685.80	54	1371.60	39	990.60	72	1828.80
		18	457.2	AUF(†)-3018-(*)-RT(+)	27	685.80	48	1219.20	39	990.60	66	1676.40
		12	304.8	AUF(†)-3012-(*)-RT(+)	27	685.80	42	1066.80	39	990.60	60	1524.00
		9	228.6	AUF(†)-3009-(*)-RT(+)	27	685.80	39	990.60	39	990.60	57	1447.80
		6	152.4	AUF(†)-3006-(*)-RT(+)	27	685.80	36	914.40	39	990.60	54	1371.60
24	609.6	18	457.2	AUF(†)-2418-(*)-RT(+)	24	609.60	42	1066.80	36	914.40	66	1676.40
		12	304.8	AUF(†)-2412-(*)-RT(+)	24	609.60	36	914.40	36	914.40	60	1524.00
		9	228.6	AUF(†)-2409-(*)-RT(+)	24	609.60	33	838.20	36	914.40	57	1447.80
		6	152.4	AUF(†)-2406-(*)-RT(+)	24	609.60	30	762.00	36	914.40	54	1371.60
18	457.2	12	304.8	AUF(†)-1812-(*)-RT(+)	21	533.40	36	914.40	33	838.20	60	1524.00
		9	228.6	AUF(†)-1809-(*)-RT(+)	21	533.40	33	838.20	33	838.20	57	1447.80
		6	152.4	AUF(†)-1806-(*)-RT(+)	21	533.40	30	762.00	33	838.20	54	1371.60
12	304.8	9	228.6	AUF(†)-1209-(*)-RT(+)	18	457.20	33	838.20	30	762.00	57	1447.80
		6	152.4	AUF(†)-1206-(*)-RT(+)	18	457.20	30	762.00	30	762.00	54	1371.60
9	228.6	6	152.4	AUF(†)-0906-(*)-RT(+)	16½	419.10	30	762.00	28½	723.90	54	1371.60

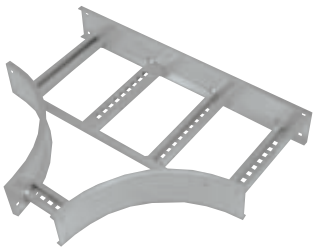
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

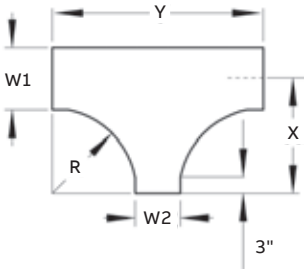
Fitting number selection



—

Horizontal reducing tee – U-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	AUF(†)-4236-(*)-RT(+)	57	1447.80	108	2743.20	69	1752.60	132	3352.80
		30	762	AUF(†)-4230-(*)-RT(+)	57	1447.80	102	2590.80	69	1752.60	126	3200.40
		24	609.6	AUF(†)-4224-(*)-RT(+)	57	1447.80	96	2438.40	69	1752.60	120	3048.00
		18	457.2	AUF(†)-4218-(*)-RT(+)	57	1447.80	90	2286.00	69	1752.60	114	2895.60
		12	304.8	AUF(†)-4212-(*)-RT(+)	57	1447.80	84	2133.60	69	1752.60	108	2743.20
		9	228.6	AUF(†)-4209-(*)-RT(+)	57	1447.80	81	2057.40	69	1752.60	105	2667.00
		6	152.4	AUF(†)-4206-(*)-RT(+)	57	1447.80	78	1981.20	69	1752.60	102	2590.80
36	914.4	30	762	AUF(†)-3630-(*)-RT(+)	54	1371.60	102	2590.80	66	1676.40	126	3200.40
		24	609.6	AUF(†)-3624-(*)-RT(+)	54	1371.60	96	2438.40	66	1676.40	120	3048.00
		18	457.2	AUF(†)-3618-(*)-RT(+)	54	1371.60	90	2286.00	66	1676.40	114	2895.60
		12	304.8	AUF(†)-3612-(*)-RT(+)	54	1371.60	84	2133.60	66	1676.40	108	2743.20
		9	228.6	AUF(†)-3609-(*)-RT(+)	54	1371.60	81	2057.40	66	1676.40	105	2667.00
		6	152.4	AUF(†)-3606-(*)-RT(+)	54	1371.60	78	1981.20	66	1676.40	102	2590.80
30	762	24	609.6	AUF(†)-3024-(*)-RT(+)	51	1295.40	96	2438.40	63	1600.20	120	3048.00
		18	457.2	AUF(†)-3018-(*)-RT(+)	51	1295.40	90	2286.00	63	1600.20	114	2895.60
		12	304.8	AUF(†)-3012-(*)-RT(+)	51	1295.40	84	2133.60	63	1600.20	108	2743.20
		9	228.6	AUF(†)-3009-(*)-RT(+)	51	1295.40	81	2057.40	63	1600.20	105	2667.00
		6	152.4	AUF(†)-3006-(*)-RT(+)	51	1295.40	78	1981.20	63	1600.20	102	2590.80
24	609.6	18	457.2	AUF(†)-2418-(*)-RT(+)	48	1219.20	90	2286.00	60	1524.00	114	2895.60
		12	304.8	AUF(†)-2412-(*)-RT(+)	48	1219.20	84	2133.60	60	1524.00	108	2743.20
		9	228.6	AUF(†)-2409-(*)-RT(+)	48	1219.20	81	2057.40	60	1524.00	105	2667.00
		6	152.4	AUF(†)-2406-(*)-RT(+)	48	1219.20	78	1981.20	60	1524.00	102	2590.80
18	457.2	12	304.8	AUF(†)-1812-(*)-RT(+)	45	1143.00	84	2133.60	57	1447.80	108	2743.20
		9	228.6	AUF(†)-1809-(*)-RT(+)	45	1143.00	81	2057.40	57	1447.80	105	2667.00
		6	152.4	AUF(†)-1806-(*)-RT(+)	45	1143.00	78	1981.20	57	1447.80	102	2590.80
12	304.8	9	228.6	AUF(†)-1209-(*)-RT(+)	42	1066.80	81	2057.40	54	1371.60	105	2667.00
		6	152.4	AUF(†)-1206-(*)-RT(+)	42	1066.80	78	1981.20	54	1371.60	102	2590.80
9	228.6	6	152.4	AUF(†)-0906-(*)-RT(+)	40½	1028.70	78	1981.20	52½	1333.50	102	2590.80

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

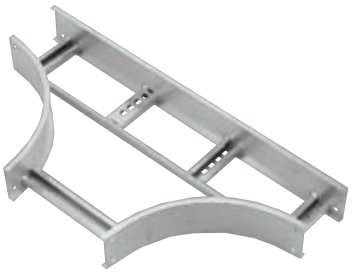
Selection guide

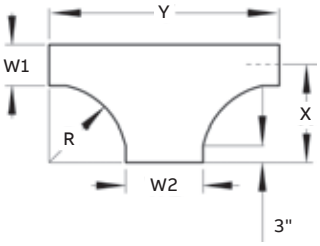
- Tray widths W1: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Tray widths W2: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

U-style horizontal expanding tee

Horizontal expanding tee – U-style

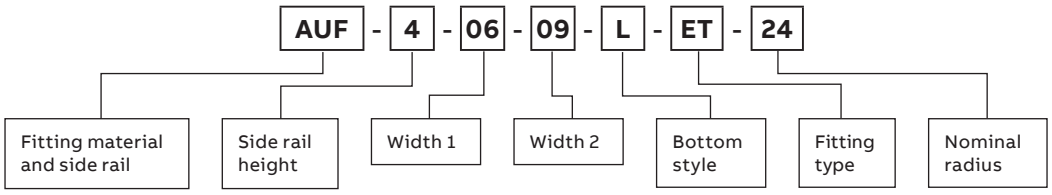




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	AUF(†)-3642-(*)-ET(+)	30	762.00	66	1676.40	42	1066.80	90	2286.00
30	762	36	914.4	AUF(†)-3036-(*)-ET(+)	27	685.80	60	1524.00	39	990.60	84	2133.60
		42	1,066.8	AUF(†)-3042-(*)-ET(+)	27	685.80	66	1676.40	39	990.60	90	2286.00
24	609.6	30	762	AUF(†)-2430-(*)-ET(+)	24	609.60	54	1371.60	36	914.40	78	1981.20
		36	914.4	AUF(†)-2436-(*)-ET(+)	24	609.60	60	1524.00	36	914.40	84	2133.60
		42	1,066.8	AUF(†)-2442-(*)-ET(+)	24	609.60	66	1676.40	36	914.40	90	2286.00
18	457.2	24	609.6	AUF(†)-1824-(*)-ET(+)	21	533.40	48	1219.20	33	838.20	72	1828.80
		30	762	AUF(†)-1830-(*)-ET(+)	21	533.40	54	1371.60	33	838.20	78	1981.20
		36	914.4	AUF(†)-1836-(*)-ET(+)	21	533.40	60	1524.00	33	838.20	84	2133.60
		42	1,066.8	AUF(†)-1842-(*)-ET(+)	21	533.40	66	1676.40	33	838.20	90	2286.00
12	304.8	18	457.2	AUF(†)-1218-(*)-ET(+)	18	457.20	42	1066.80	30	762.00	66	1676.40
		24	609.6	AUF(†)-1224-(*)-ET(+)	18	457.20	48	1219.20	30	762.00	72	1828.80
		30	762	AUF(†)-1230-(*)-ET(+)	18	457.20	54	1371.60	30	762.00	78	1981.20
		36	914.4	AUF(†)-1236-(*)-ET(+)	18	457.20	60	1524.00	30	762.00	84	2133.60
		42	1,066.8	AUF(†)-1242-(*)-ET(+)	18	457.20	66	1676.40	30	762.00	90	2286.00
9	228.6	12	304.8	AUF(†)-0912-(*)-ET(+)	16½	419.10	36	914.40	28½	723.90	60	1524.00
		18	457.2	AUF(†)-0918-(*)-ET(+)	16½	419.10	42	1066.80	28½	723.90	66	1676.40
		24	609.6	AUF(†)-0924-(*)-ET(+)	16½	419.10	48	1219.20	28½	723.90	72	1828.80
		30	762	AUF(†)-0930-(*)-ET(+)	16½	419.10	54	1371.60	28½	723.90	78	1981.20
		36	914.4	AUF(†)-0936-(*)-ET(+)	16½	419.10	60	1524.00	28½	723.90	84	2133.60
		42	1,066.8	AUF(†)-0942-(*)-ET(+)	16½	419.10	66	1676.40	28½	723.90	90	2286.00
6	152.4	9	228.6	AUF(†)-0609-(*)-ET(+)	15	381.00	33	838.20	27	685.80	57	1447.80
		12	304.8	AUF(†)-0612-(*)-ET(+)	15	381.00	36	914.40	27	685.80	60	1524.00
		18	457.2	AUF(†)-0618-(*)-ET(+)	15	381.00	42	1066.80	27	685.80	66	1676.40
		24	609.6	AUF(†)-0642-(*)-ET(+)	15	381.00	48	1219.20	27	685.80	72	1828.80
		30	762	AUF(†)-0630-(*)-ET(+)	15	381.00	54	1371.60	27	685.80	78	1981.20
		36	914.4	AUF(†)-0636-(*)-ET(+)	15	381.00	60	1524.00	27	685.80	84	2133.60
		42	1,066.8	AUF(†)-0642-(*)-ET(+)	15	381.00	66	1676.40	27	685.80	90	2286.00

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

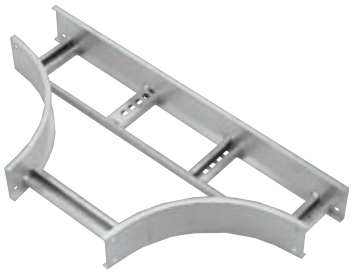
Fitting number selection

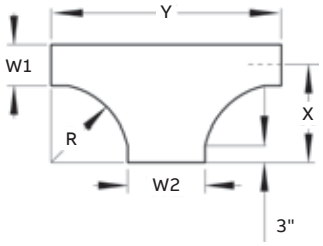


SECTION 6

—

Horizontal expanding tee – U-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	AUF(†)-3642-(*)-ET(+)	54	1371.60	114	2895.60	66	1676.40	138	3505.20
30	762	36	914.4	AUF(†)-3036-(*)-ET(+)	51	1295.40	108	2743.20	63	1600.20	132	3352.80
		42	1,066.8	AUF(†)-3042-(*)-ET(+)	51	1295.40	114	2895.60	63	1600.20	138	3505.20
24	609.6	30	762	AUF(†)-2430-(*)-ET(+)	48	1219.20	102	2590.80	60	1524.00	126	3200.40
		36	914.4	AUF(†)-2436-(*)-ET(+)	48	1219.20	108	2743.20	60	1524.00	132	3352.80
		42	1,066.8	AUF(†)-2442-(*)-ET(+)	48	1219.20	114	2895.60	60	1524.00	138	3505.20
18	457.2	24	609.6	AUF(†)-1824-(*)-ET(+)	45	1143.00	96	2438.40	57	1447.80	120	3048.00
		30	762	AUF(†)-1830-(*)-ET(+)	45	1143.00	102	2590.80	57	1447.80	126	3200.40
		36	914.4	AUF(†)-1836-(*)-ET(+)	45	1143.00	108	2743.20	57	1447.80	132	3352.80
		42	1,066.8	AUF(†)-1842-(*)-ET(+)	45	1143.00	114	2895.60	57	1447.80	138	3505.20
12	304.8	18	457.2	AUF(†)-1218-(*)-ET(+)	42	1066.80	90	2286.00	54	1371.60	114	2895.60
		24	609.6	AUF(†)-1224-(*)-ET(+)	42	1066.80	96	2438.40	54	1371.60	120	3048.00
		30	762	AUF(†)-1230-(*)-ET(+)	42	1066.80	102	2590.80	54	1371.60	126	3200.40
		36	914.4	AUF(†)-1236-(*)-ET(+)	42	1066.80	108	2743.20	54	1371.60	132	3352.80
		42	1,066.8	AUF(†)-1242-(*)-ET(+)	42	1066.80	114	2895.60	54	1371.60	138	3505.20
9	228.6	12	304.8	AUF(†)-0912-(*)-ET(+)	40½	1028.70	84	2133.60	52½	1333.50	108	2743.20
		18	457.2	AUF(†)-0918-(*)-ET(+)	40½	1028.70	90	2286.00	52½	1333.50	114	2895.60
		24	609.6	AUF(†)-0924-(*)-ET(+)	40½	1028.70	96	2438.40	52½	1333.50	120	3048.00
		30	762	AUF(†)-0930-(*)-ET(+)	40½	1028.70	102	2590.80	52½	1333.50	126	3200.40
		36	914.4	AUF(†)-0936-(*)-ET(+)	40½	1028.70	108	2743.20	52½	1333.50	132	3352.80
		42	1,066.8	AUF(†)-0942-(*)-ET(+)	40½	1028.70	114	2895.60	52½	1333.50	138	3505.20
6	152.4	9	228.6	AUF(†)-0609-(*)-ET(+)	39	990.60	81	2057.40	51	1295.40	105	2667.00
		12	304.8	AUF(†)-0612-(*)-ET(+)	39	990.60	84	2133.60	51	1295.40	108	2743.20
		18	457.2	AUF(†)-0618-(*)-ET(+)	39	990.60	90	2286.00	51	1295.40	114	2895.60
		24	609.6	AUF(†)-0642-(*)-ET(+)	39	990.60	96	2438.40	51	1295.40	120	3048.00
		30	762	AUF(†)-0630-(*)-ET(+)	39	990.60	102	2590.80	51	1295.40	126	3200.40
		36	914.4	AUF(†)-0636-(*)-ET(+)	39	990.60	108	2743.20	51	1295.40	132	3352.80
		42	1,066.8	AUF(†)-0642-(*)-ET(+)	39	990.60	114	2895.60	51	1295.40	138	3505.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

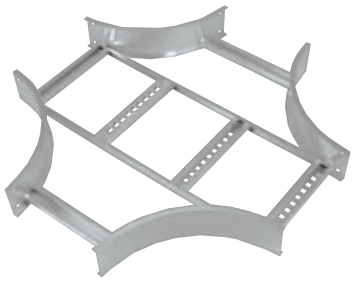
Selection guide

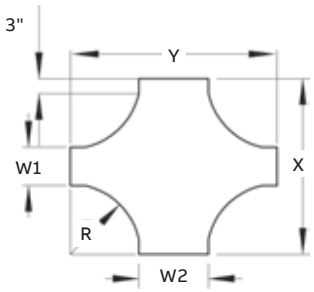
- Tray widths W1: 6, 9, 12, 18, 24, 30" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

U-style horizontal expanding cross

Horizontal expanding cross – U-style

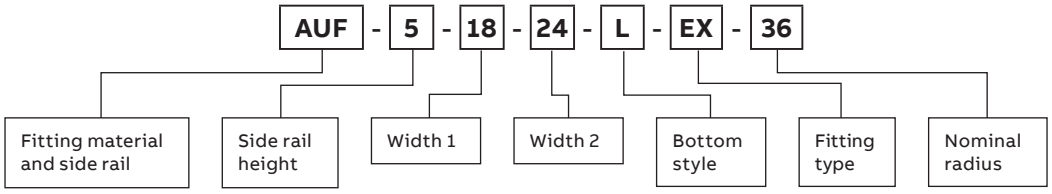




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	AUF(†)-3642-(*)-EX(+)	60	1524.00	66	1676.40	84	2133.60	90	2286.00
30	762	36	914.4	AUF(†)-3036-(*)-EX(+)	54	1371.60	60	1524.00	78	1981.20	84	2133.60
		42	1,066.8	AUF(†)-3042-(*)-EX(+)	54	1371.60	66	1676.40	78	1981.20	90	2286.00
24	609.6	30	762	AUF(†)-2430-(*)-EX(+)	48	1219.20	54	1371.60	72	1828.80	78	1981.20
		36	914.4	AUF(†)-2436-(*)-EX(+)	48	1219.20	60	1524.00	72	1828.80	84	2133.60
		42	1,066.8	AUF(†)-2442-(*)-EX(+)	48	1219.20	66	1676.40	72	1828.80	90	2286.00
18	457.2	24	609.6	AUF(†)-1824-(*)-EX(+)	42	1066.80	48	1219.20	66	1676.40	72	1828.80
		30	762	AUF(†)-1830-(*)-EX(+)	42	1066.80	54	1371.60	66	1676.40	78	1981.20
		36	914.4	AUF(†)-1836-(*)-EX(+)	42	1066.80	60	1524.00	66	1676.40	84	2133.60
		42	1,066.8	AUF(†)-1842-(*)-EX(+)	42	1066.80	66	1676.40	66	1676.40	90	2286.00
12	304.8	18	457.2	AUF(†)-1218-(*)-EX(+)	36	914.40	42	1066.80	60	1524.00	66	1676.40
		24	609.6	AUF(†)-1224-(*)-EX(+)	36	914.40	48	1219.20	60	1524.00	72	1828.80
		30	762	AUF(†)-1230-(*)-EX(+)	36	914.40	54	1371.60	60	1524.00	78	1981.20
		36	914.4	AUF(†)-1236-(*)-EX(+)	36	914.40	60	1524.00	60	1524.00	84	2133.60
		42	1,066.8	AUF(†)-1242-(*)-EX(+)	36	914.40	66	1676.40	60	1524.00	90	2286.00
9	228.6	12	304.8	AUF(†)-0912-(*)-EX(+)	33	838.20	42	1066.80	57	1447.80	60	1524.00
		18	457.2	AUF(†)-0918-(*)-EX(+)	33	838.20	48	1219.20	57	1447.80	66	1676.40
		24	609.6	AUF(†)-0924-(*)-EX(+)	33	838.20	54	1371.60	57	1447.80	72	1828.80
		30	762	AUF(†)-0930-(*)-EX(+)	33	838.20	60	1524.00	57	1447.80	78	1981.20
		36	914.4	AUF(†)-0936-(*)-EX(+)	33	838.20	66	1676.40	57	1447.80	84	2133.60
		42	1,066.8	AUF(†)-0942-(*)-EX(+)	33	838.20	33	838.20	57	1447.80	90	2286.00
6	152.4	9	228.6	AUF(†)-0609-(*)-EX(+)	30	762.00	33	838.20	54	1371.60	57	1447.80
		12	304.8	AUF(†)-0612-(*)-EX(+)	30	762.00	36	914.40	54	1371.60	60	1524.00
		18	457.2	AUF(†)-0618-(*)-EX(+)	30	762.00	42	1066.80	54	1371.60	66	1676.40
		24	609.6	AUF(†)-0642-(*)-EX(+)	30	762.00	48	1219.20	54	1371.60	72	1828.80
		30	762	AUF(†)-0630-(*)-EX(+)	30	762.00	54	1371.60	54	1371.60	78	1981.20
		36	914.4	AUF(†)-0636-(*)-EX(+)	30	762.00	60	1524.00	54	1371.60	84	2133.60
		42	1,066.8	AUF(†)-0642-(*)-EX(+)	30	762.00	66	1676.40	54	1371.60	90	2286.00

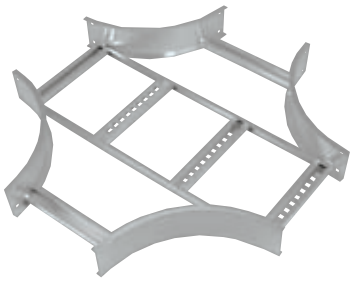
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

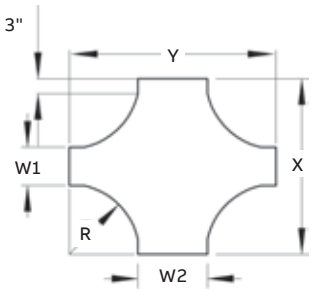
Fitting number selection



—

Horizontal expanding cross – U-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	AUF(†)-3642-(*)-EX(+)	108	2743.20	114	2895.60	132	3352.80	138	3505.20
30	762	36	914.4	AUF(†)-3036-(*)-EX(+)	102	2590.80	108	2743.20	126	3200.40	132	3352.80
		42	1,066.8	AUF(†)-3042-(*)-EX(+)	102	2590.80	114	2895.60	126	3200.40	138	3505.20
24	609.6	30	762	AUF(†)-2430-(*)-EX(+)	96	2438.40	102	2590.80	120	3048.00	126	3200.40
		36	914.4	AUF(†)-2436-(*)-EX(+)	96	2438.40	108	2743.20	120	3048.00	132	3352.80
		42	1,066.8	AUF(†)-2442-(*)-EX(+)	96	2438.40	114	2895.60	120	3048.00	138	3505.20
18	457.2	24	609.6	AUF(†)-1824-(*)-EX(+)	90	2286.00	96	2438.40	114	2895.60	120	3048.00
		30	762	AUF(†)-1830-(*)-EX(+)	90	2286.00	102	2590.80	114	2895.60	126	3200.40
		36	914.4	AUF(†)-1836-(*)-EX(+)	90	2286.00	108	2743.20	114	2895.60	132	3352.80
		42	1,066.8	AUF(†)-1842-(*)-EX(+)	90	2286.00	114	2895.60	114	2895.60	138	3505.20
12	304.8	18	457.2	AUF(†)-1218-(*)-EX(+)	84	2133.60	90	2286.00	108	2743.20	114	2895.60
		24	609.6	AUF(†)-1224-(*)-EX(+)	84	2133.60	96	2438.40	108	2743.20	120	3048.00
		30	762	AUF(†)-1230-(*)-EX(+)	84	2133.60	102	2590.80	108	2743.20	126	3200.40
		36	914.4	AUF(†)-1236-(*)-EX(+)	84	2133.60	108	2743.20	108	2743.20	132	3352.80
		42	1,066.8	AUF(†)-1242-(*)-EX(+)	84	2133.60	1114	2895.60	108	2743.20	138	3505.20
9	228.6	12	304.8	AUF(†)-0912-(*)-EX(+)	81	2057.40	84	2133.60	105	2667.00	108	2743.20
		18	457.2	AUF(†)-0918-(*)-EX(+)	81	2057.40	90	2286.00	105	2667.00	114	2895.60
		24	609.6	AUF(†)-0924-(*)-EX(+)	81	2057.40	96	2438.40	105	2667.00	120	3048.00
		30	762	AUF(†)-0930-(*)-EX(+)	81	2057.40	102	2590.80	105	2667.00	126	3200.40
		36	914.4	AUF(†)-0936-(*)-EX(+)	81	2057.40	108	2743.20	105	2667.00	132	3352.80
		42	1,066.8	AUF(†)-0942-(*)-EX(+)	81	2057.40	114	2895.60	105	2667.00	138	3505.20
6	152.4	9	228.6	AUF(†)-0609-(*)-EX(+)	78	1981.20	81	2057.40	102	2590.80	105	2667.00
		12	304.8	AUF(†)-0612-(*)-EX(+)	78	1981.20	84	2133.60	102	2590.80	108	2743.20
		18	457.2	AUF(†)-0618-(*)-EX(+)	78	1981.20	90	2286.00	102	2590.80	114	2895.60
		24	609.6	AUF(†)-0642-(*)-EX(+)	78	1981.20	96	2438.40	102	2590.80	120	3048.00
		30	762	AUF(†)-0630-(*)-EX(+)	78	1981.20	102	2590.80	102	2590.80	126	3200.40
		36	914.4	AUF(†)-0636-(*)-EX(+)	78	1981.20	108	2743.20	102	2590.80	132	3352.80
		42	1,066.8	AUF(†)-0642-(*)-EX(+)	78	1981.20	114	2895.60	102	2590.80	138	3505.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Tray widths W1: 6, 9, 12, 18, 24, 30" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

U-style reducer fittings

Offset reducer – left

Reducer – left

Offset reducer – left

Selection guide

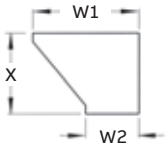
- Tray widths W1: 6, 9, 12, 18, 24, 30, 42"
- Tray widths W2: 6, 9, 12, 18, 24, 30, 36"
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4" - 7"

NOTE: For fitting number selection see page 85

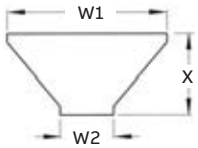
Horizontal reducer – U-style

Widths W1 (in)	Widths W1 (mm)	W1 (in)	W1 (mm)	Left reducer Cat. No.	Dim. X (in)	Dim. X (mm)	Straight reducer (concentric) Cat. No.	Dim. X (in)	Dim. X (mm)	Right reducer Cat. No.	Dim. X (in)	Dim. X (mm)
42	1,066.8	36	914.4	AUF(†)-42-36-(*)-HLR	15 7/16	392.11	AUF(†)-42-36-(*)-HSR	13 3/4	349.25	AUF(†)-42-36-(*)-HRR	15 7/16	392.11
		30	762	AUF(†)-42-30-(*)-HLR	18 5/16	465.14	AUF(†)-42-30-(*)-HSR	15 7/16	392.11	AUF(†)-42-30-(*)-HRR	18 15/16	465.14
		24	609.6	AUF(†)-42-24-(*)-HLR	22 3/8	568.33	AUF(†)-42-24-(*)-HSR	17 3/16	436.56	AUF(†)-42-24-(*)-HRR	22 3/8	568.33
		18	457.2	AUF(†)-42-18-(*)-HLR	25 7/8	657.23	AUF(†)-42-18-(*)-HSR	18 5/16	465.14	AUF(†)-42-18-(*)-HRR	25 7/8	657.23
		12	304.8	AUF(†)-42-12-(*)-HLR	29 5/16	744.54	AUF(†)-42-12-(*)-HSR	20 5/8	523.88	AUF(†)-42-12-(*)-HRR	29 5/16	744.54
		9	228.6	AUF(†)-42-09-(*)-HLR	31 1/16	788.99	AUF(†)-42-09-(*)-HSR	21 1/2	546.10	AUF(†)-42-09-(*)-HRR	31 1/16	788.99
		6	152.4	AUF(†)-42-06-(*)-HLR	32 3/4	831.85	AUF(†)-42-06-(*)-HSR	22 3/8	568.33	AUF(†)-42-06-(*)-HRR	32 3/4	831.85
36	914.4	30	762	AUF(†)-36-30-(*)-HLR	15 7/16	392.11	AUF(†)-36-30-(*)-HSR	13 3/4	349.25	AUF(†)-36-30-(*)-HRR	15 7/16	392.11
		24	609.6	AUF(†)-36-24-(*)-HLR	18 15/16	481.01	AUF(†)-36-24-(*)-HSR	15 7/16	392.11	AUF(†)-36-24-(*)-HRR	18 15/16	481.01
		18	457.2	AUF(†)-36-18-(*)-HLR	22 3/8	568.33	AUF(†)-36-18-(*)-HSR	17 3/8	441.33	AUF(†)-36-18-(*)-HRR	22 3/8	568.33
		12	304.8	AUF(†)-36-12-(*)-HLR	25 7/8	657.23	AUF(†)-36-12-(*)-HSR	18 5/16	465.14	AUF(†)-36-12-(*)-HRR	25 7/8	657.23
		9	228.6	AUF(†)-36-09-(*)-HLR	27 9/16	700.09	AUF(†)-36-09-(*)-HSR	19 13/16	503.24	AUF(†)-36-09-(*)-HRR	27 9/16	700.09
		6	152.4	AUF(†)-36-06-(*)-HLR	29 5/16	744.54	AUF(†)-36-06-(*)-HSR	20 11/16	525.46	AUF(†)-36-06-(*)-HRR	29 5/16	744.54
30	762	24	609.6	AUF(†)-30-24-(*)-HLR	15 7/16	392.11	AUF(†)-30-24-(*)-HSR	13 3/4	349.25	AUF(†)-30-24-(*)-HRR	15 7/16	392.11
		18	457.2	AUF(†)-30-18-(*)-HLR	18 15/16	481.01	AUF(†)-30-18-(*)-HSR	15 7/16	392.11	AUF(†)-30-18-(*)-HRR	18 15/16	481.01
		12	304.8	AUF(†)-30-12-(*)-HLR	22 3/8	568.33	AUF(†)-30-12-(*)-HSR	17 3/16	436.56	AUF(†)-30-12-(*)-HRR	22 3/8	568.33
		9	228.6	AUF(†)-30-09-(*)-HLR	24 1/8	612.78	AUF(†)-30-09-(*)-HSR	18 1/16	458.79	AUF(†)-30-09-(*)-HRR	24 1/8	612.78
		6	152.4	AUF(†)-30-06-(*)-HLR	25 7/8	657.23	AUF(†)-30-06-(*)-HSR	18 15/16	481.01	AUF(†)-30-06-(*)-HRR	25 7/8	657.23
24	609.6	18	457.2	AUF(†)-24-18-(*)-HLR	15 7/16	392.11	AUF(†)-24-18-(*)-HSR	13 3/4	349.25	AUF(†)-24-18-(*)-HRR	15 7/16	392.11
		12	304.8	AUF(†)-24-12-(*)-HLR	18 15/16	481.01	AUF(†)-24-12-(*)-HSR	15 7/16	392.11	AUF(†)-24-12-(*)-HRR	18 15/16	481.01
		9	228.6	AUF(†)-24-09-(*)-HLR	20 11/16	525.46	AUF(†)-24-09-(*)-HSR	16 5/16	414.34	AUF(†)-24-09-(*)-HRR	20 11/16	525.46
		6	152.4	AUF(†)-24-06-(*)-HLR	22 3/8	568.33	AUF(†)-24-06-(*)-HSR	17 3/16	436.56	AUF(†)-24-06-(*)-HRR	22 3/8	568.33
18	457.2	12	304.8	AUF(†)-18-12-(*)-HLR	15 7/16	392.11	AUF(†)-18-12-(*)-HSR	13 3/4	349.25	AUF(†)-18-12-(*)-HRR	15 7/16	392.11
		9	228.6	AUF(†)-18-09-(*)-HLR	17 3/16	436.56	AUF(†)-18-09-(*)-HSR	14 5/8	371.48	AUF(†)-18-09-(*)-HRR	17 3/16	436.56
		6	152.4	AUF(†)-18-06-(*)-HLR	18 15/16	481.01	AUF(†)-18-06-(*)-HSR	15 7/16	392.11	AUF(†)-18-06-(*)-HRR	18 15/16	481.01
12	304.8	9	228.6	AUF(†)-12-09-(*)-HLR	13 3/4	349.25	AUF(†)-12-09-(*)-HSR	12 7/8	327.03	AUF(†)-12-09-(*)-HRR	13 3/4	349.25
		6	152.4	AUF(†)-12-06-(*)-HLR	15 7/16	392.11	AUF(†)-12-06-(*)-HSR	13 3/4	349.25	AUF(†)-12-06-(*)-HRR	15 7/16	392.11
9	1,066.8	6	152.4	AUF(†)-09-06-(*)-HLR	13 3/4	349.25	AUF(†)-09-06-(*)-HSR	12 7/8	327.03	AUF(†)-09-06-(*)-HRR	13 3/4	349.25

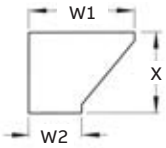
Offset reducer – right



Reducer – left



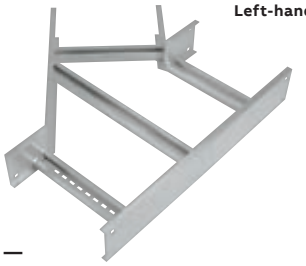
Offset reducer – left

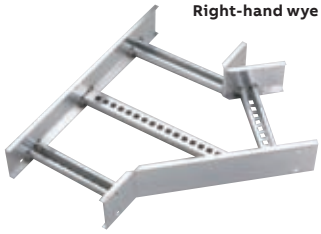


(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Metallic - Aluminum fittings

45° U-style horizontal wye fittings





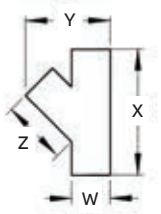
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

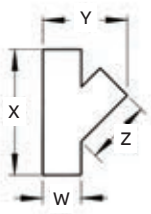
45° Horizontal wye – U-style

Width (in)	(mm)	Left-hand wye Cat. No.	Right-hand wye Cat. No.	Dimensions X (in)	X(mm)	Y (in)	Y(mm)	Z (in)	Z (mm)
6	152.4	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	18 5/16	465.14	14 13/16	376.24	12 7/16	315.91
9	228.6	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	22 1/2	571.50	19 15/16	506.41	15 7/16	392.11
12	304.8	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	26 3/4	679.45	25	635.00	18 7/16	468.31
18	457.2	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	35 1/4	895.35	35 1/4	895.35	24 7/16	620.71
24	609.6	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	43 1/2	1098.55	45 1/2	1149.35	30 7/16	773.11
30	762	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	52 1/4	1327.15	55 3/4	1416.05	36 7/16	925.51
36	914.4	AUF(†)-06-(*)-HYL	AUF(†)-06-(*)-HYR	60 11/16	1541.46	66	1676.40	42 7/16	1077.91
42	1,066.8	AUF(†)-06-(*)-HYL2	AUF(†)-06-(*)-HYR	69 3/16	1757.36	76 1/4	2012.95	45 7/16	1154.11

Left-hand wye

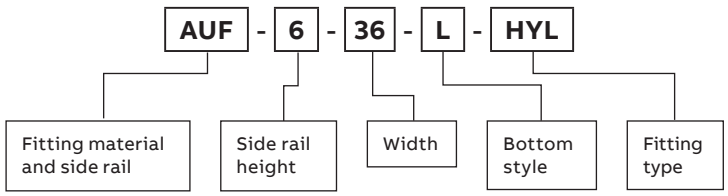


Right-hand wye



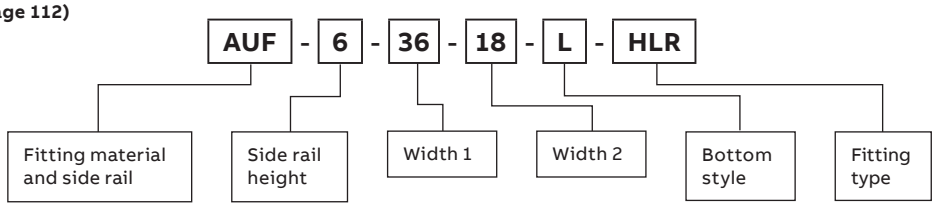
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection (45° Horizontal wye)



*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Fitting number selection (Horizontal reducer – see page 112)

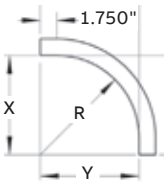


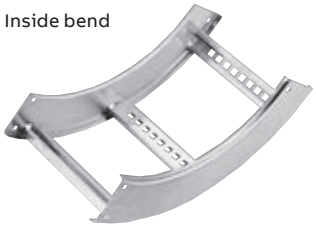
Metallic - Aluminum fittings

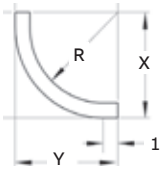
90° U-style vertical bend fittings

90° Vertical bend – U-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)		(+) VI side rail 4" (101.6mm)		(+) VI side rail 5" (127mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	AUF(†)-06-(*)-(+)90-12	12 304.8	12 304.8	17 15/16 455.61	17 15/16 455.61	18 13/16 477.84	18 13/16 477.84
			9	228.6	AUF(†)-09-(*)-(+)90-12						
			12	304.8	AUF(†)-12-(*)-(+)90-12						
			18	457.2	AUF(†)-18-(*)-(+)90-12						
			24	609.6	AUF(†)-24-(*)-(+)90-12						
			30	762	AUF(†)-30-(*)-(+)90-12						
			36	914.4	AUF(†)-36-(*)-(+)90-12						
			42	1,066.8	AUF(†)-42-(*)-(+)90-12						
	24	609.6	6	152.4	AUF(†)-06-(*)-(+)90-24	24 609.6	24 609.6	29 15/16 760.41	29 15/16 760.41	30 13/16 782.64	30 13/16 782.64
			9	228.6	AUF(†)-09-(*)-(+)90-24						
			12	304.8	AUF(†)-12-(*)-(+)90-24						
			18	457.2	AUF(†)-18-(*)-(+)90-24						
			24	609.6	AUF(†)-24-(*)-(+)90-24						
			30	762	AUF(†)-30-(*)-(+)90-24						
			36	914.4	AUF(†)-36-(*)-(+)90-24						
			42	1,066.8	AUF(†)-42-(*)-(+)90-24						
Inside bend	36	914.4	6	152.4	AUF(†)-06-(*)-(+)90-36	36 914.4	36 914.4	41 15/16 1065.21	41 15/16 1065.21	42 13/16 1087.44	42 13/16 1087.44
			9	228.6	AUF(†)-09-(*)-(+)90-36						
			12	304.8	AUF(†)-12-(*)-(+)90-36						
			18	457.2	AUF(†)-18-(*)-(+)90-36						
			24	609.6	AUF(†)-24-(*)-(+)90-36						
			30	762	AUF(†)-30-(*)-(+)90-36						
			36	914.4	AUF(†)-36-(*)-(+)90-36						
			42	1,066.8	AUF(†)-42-(*)-(+)90-36						
	48	1,219.2	6	152.4	AUF(†)-06-(*)-(+)90-48	48 1,219.2	48 1,219.2	53 15/16 1370.01	53 15/16 1370.01	54 13/16 1392.24	54 13/16 1392.24
			9	228.6	AUF(†)-09-(*)-(+)90-48						
			12	304.8	AUF(†)-12-(*)-(+)90-48						
			18	457.2	AUF(†)-18-(*)-(+)90-48						
			24	609.6	AUF(†)-24-(*)-(+)90-48						
			30	762	AUF(†)-30-(*)-(+)90-48						
			36	914.4	AUF(†)-36-(*)-(+)90-48						
			42	1,066.8	AUF(†)-42-(*)-(+)90-48						

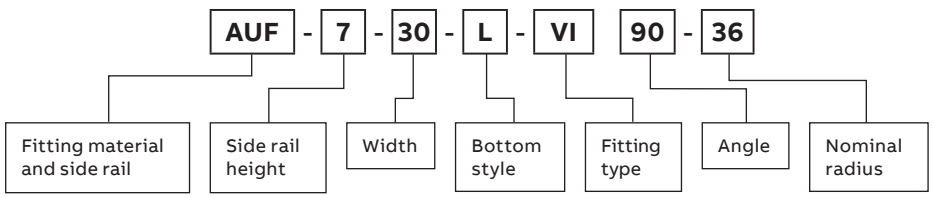






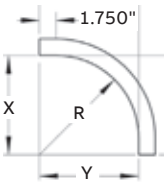
(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

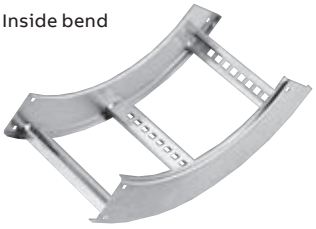
Fitting number selection

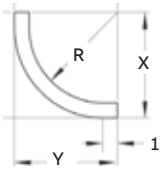


90° Vertical bend – U-style (continued)

	Nominal Radius		Nominal Width			(+) VI side rail			
						6" (152.4mm)		7" (177.8mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	AUF(†)-06-(*)-(+)90-12	20 508.00	20 508.00	21 533.40	21 533.40
			9	228.6	AUF(†)-09-(*)-(+)90-12				
			12	304.8	AUF(†)-12-(*)-(+)90-12				
			18	457.2	AUF(†)-18-(*)-(+)90-12				
			24	609.6	AUF(†)-24-(*)-(+)90-12				
			30	762	AUF(†)-30-(*)-(+)90-12				
			36	914.4	AUF(†)-36-(*)-(+)90-12				
			42	1,066.8	AUF(†)-42-(*)-(+)90-12				
	24	609.6	6	152.4	AUF(†)-06-(*)-(+)90-24	32 812.80	32 812.80	33 838.20	33 838.20
			9	228.6	AUF(†)-09-(*)-(+)90-24				
			12	304.8	AUF(†)-12-(*)-(+)90-24				
			18	457.2	AUF(†)-18-(*)-(+)90-24				
			24	609.6	AUF(†)-24-(*)-(+)90-24				
			30	762	AUF(†)-30-(*)-(+)90-24				
			36	914.4	AUF(†)-36-(*)-(+)90-24				
			42	1,066.8	AUF(†)-42-(*)-(+)90-24				
Inside bend	36	914.4	6	152.4	AUF(†)-06-(*)-(+)90-36	44 1117.60	44 1117.60	33 838.20	33 838.20
			9	228.6	AUF(†)-09-(*)-(+)90-36				
			12	304.8	AUF(†)-12-(*)-(+)90-36				
			18	457.2	AUF(†)-18-(*)-(+)90-36				
			24	609.6	AUF(†)-24-(*)-(+)90-36				
			30	762	AUF(†)-30-(*)-(+)90-36				
			36	914.4	AUF(†)-36-(*)-(+)90-36				
			42	1,066.8	AUF(†)-42-(*)-(+)90-36				
	48	1,219.2	6	152.4	AUF(†)-06-(*)-(+)90-48	56 1422.40	56 1422.40	57 1447.80	57 1447.80
			9	228.6	AUF(†)-09-(*)-(+)90-48				
			12	304.8	AUF(†)-12-(*)-(+)90-48				
			18	457.2	AUF(†)-18-(*)-(+)90-48				
			24	609.6	AUF(†)-24-(*)-(+)90-48				
			30	762	AUF(†)-30-(*)-(+)90-48				
			36	914.4	AUF(†)-36-(*)-(+)90-48				
			42	1,066.8	AUF(†)-42-(*)-(+)90-48				







(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

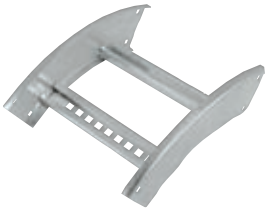
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

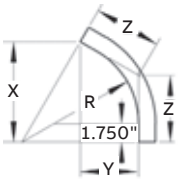
Metallic - Aluminum fittings

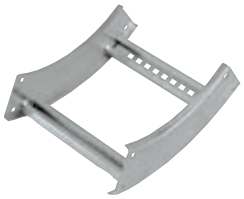
60° U-style vertical bend fittings

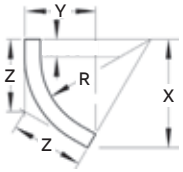
60° Vertical bend – U-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	AHF(†)-06-(*)-(+)60-12	13 330.20	7½ 190.50	8¹¹⁄₁₆ 220.66	16⅝ 422.28	11¹¹⁄₁₆ 296.86	11¹⁄₁₆ 280.99
			9	228.6	AHF(†)-09-(*)-(+)60-12						
			12	304.8	AHF(†)-12-(*)-(+)60-12						
			18	457.2	AHF(†)-18-(*)-(+)60-12						
			24	609.6	AHF(†)-24-(*)-(+)60-12						
			30	762	AHF(†)-30-(*)-(+)60-12						
			36	914.4	AHF(†)-36-(*)-(+)60-12						
			42	1,066.8	AHF(†)-42-(*)-(+)60-12						
	24	609.6	6	152.4	AHF(†)-06-(*)-(+)60-24	23⁷⁄₁₆ 595.31	13½ 342.90	15⅝ 685.80	27 685.80	17¹¹⁄₁₆ 449.26	18 457.20
			9	228.6	AHF(†)-09-(*)-(+)60-24						
			12	304.8	AHF(†)-12-(*)-(+)60-24						
			18	457.2	AHF(†)-18-(*)-(+)60-24						
			24	609.6	AHF(†)-24-(*)-(+)60-24						
			30	762	AHF(†)-30-(*)-(+)60-24						
			36	914.4	AHF(†)-36-(*)-(+)60-24						
			42	1,066.8	AHF(†)-42-(*)-(+)60-24						
Inside bend	36	914.4	6	152.4	AHF(†)-06-(*)-(+)60-36	33¹³⁄₁₆ 858.84	19½ 495.30	22⁹⁄₁₆ 573.09	37⁷⁄₁₆ 950.91	23¹¹⁄₁₆ 601.66	24¹⁵⁄₁₆ 633.41
			9	228.6	AHF(†)-09-(*)-(+)60-36						
			12	304.8	AHF(†)-12-(*)-(+)60-36						
			18	457.2	AHF(†)-18-(*)-(+)60-36						
			24	609.6	AHF(†)-24-(*)-(+)60-36						
			30	762	AHF(†)-30-(*)-(+)60-36						
			36	914.4	AHF(†)-36-(*)-(+)60-36						
			42	1,066.8	AHF(†)-42-(*)-(+)60-36						
	48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)60-48	44³⁄₁₆ 1122.36	25½ 647.70	29⁷⁄₁₆ 747.71	47¹³⁄₁₆ 1214.44	29¹¹⁄₁₆ 754.06	31⅞ 809.63
			9	228.6	AHF(†)-09-(*)-(+)60-48						
			12	304.8	AHF(†)-12-(*)-(+)60-48						
			18	457.2	AHF(†)-18-(*)-(+)60-48						
			24	609.6	AHF(†)-24-(*)-(+)60-48						
			30	762	AHF(†)-30-(*)-(+)60-48						
			36	914.4	AHF(†)-36-(*)-(+)60-48						
			42	1,066.8	AHF(†)-42-(*)-(+)60-48						



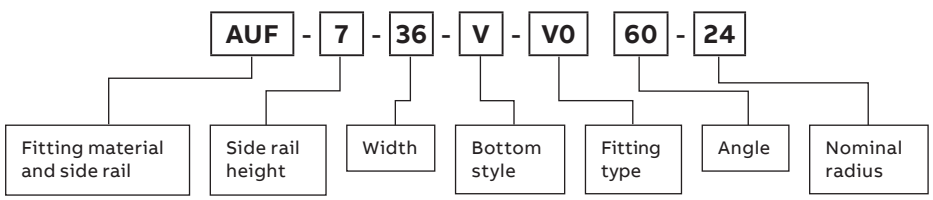






(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



SECTION 6

60° Vertical bend – U-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-(+)60-12	17 7/16 442.91	12 5/8 320.68	11 5/8 295.28	18 3/8 466.73	13 11/16 311.15	12 1/4 490.54	19 5/16 490.54	14 3/4 374.65	12 7/8 327.03
		9	228.6	AHF(†)-09-(*)-(+)60-12									
		12	304.8	AHF(†)-12-(*)-(+)60-12									
		18	457.2	AHF(†)-18-(*)-(+)60-12									
		24	609.6	AHF(†)-24-(*)-(+)60-12									
		30	762	AHF(†)-30-(*)-(+)60-12									
		36	914.4	AHF(†)-36-(*)-(+)60-12									
		42	1,066.8	AHF(†)-42-(*)-(+)60-12									
24	609.6	6	152.4	AHF(†)-06-(*)-(+)60-24	28 3/4 730.25	18 5/8 473.08	16 9/16 420.69	28 3/4 730.25	19 11/16 500.06	19 3/16 487.36	29 11/16 754.06	20 3/4 527.05	19 13/16 503.24
		9	228.6	AHF(†)-09-(*)-(+)60-24									
		12	304.8	AHF(†)-12-(*)-(+)60-24									
		18	457.2	AHF(†)-18-(*)-(+)60-24									
		24	609.6	AHF(†)-24-(*)-(+)60-24									
		30	762	AHF(†)-30-(*)-(+)60-24									
		36	914.4	AHF(†)-36-(*)-(+)60-24									
		42	1,066.8	AHF(†)-42-(*)-(+)60-24									
36	914.4	6	152.4	AHF(†)-06-(*)-(+)60-36	38 3/16 969.96	24 5/8 625.48	25 7/16 646.11	39 3/16 995.36	25 11/16 652.46	26 1/8 663.58	40 1/16 1017.59	26 3/4 679.45	26 11/16 677.86
		9	228.6	AHF(†)-09-(*)-(+)60-36									
		12	304.8	AHF(†)-12-(*)-(+)60-36									
		18	457.2	AHF(†)-18-(*)-(+)60-36									
		24	609.6	AHF(†)-24-(*)-(+)60-36									
		30	762	AHF(†)-30-(*)-(+)60-36									
		36	914.4	AHF(†)-36-(*)-(+)60-36									
		42	1,066.8	AHF(†)-42-(*)-(+)60-36									
48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)60-48	48 9/16 1233.49	30 5/8 777.88	32 3/8 822.33	49 9/16 1258.89	31 11/16 804.86	33 1/16 839.79	50 7/16 1281.11	32 3/4 831.85	33 5/8 854.08
		9	228.6	AHF(†)-09-(*)-(+)60-48									
		12	304.8	AHF(†)-12-(*)-(+)60-48									
		18	457.2	AHF(†)-18-(*)-(+)60-48									
		24	609.6	AHF(†)-24-(*)-(+)60-48									
		30	762	AHF(†)-30-(*)-(+)60-48									
		36	914.4	AHF(†)-36-(*)-(+)60-48									
		42	1,066.8	AHF(†)-42-(*)-(+)60-48									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

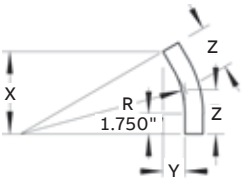
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

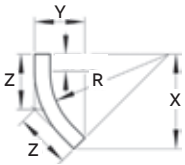
Metallic - Aluminum fittings

45° U-style vertical bends fittings

45° Vertical bend – U-style

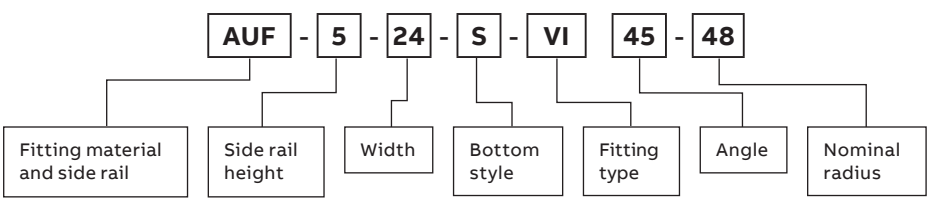
	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	**AUF(†)-06-(*)-(+)45-12**	11½ 292.10	4¾ 120.65	6¾ 171.45	14 7/16 295.28	8 15/16 366.71	8 7/16 227.01
			9	228.6	**AUF(†)-09-(*)-(+)45-12**						
			12	304.8	**AUF(†)-12-(*)-(+)45-12**						
			18	457.2	**AUF(†)-18-(*)-(+)45-12**						
			24	609.6	**AUF(†)-24-(*)-(+)45-12**						
			30	762	**AUF(†)-30-(*)-(+)45-12**						
			36	914.4	**AUF(†)-36-(*)-(+)45-12**						
			42	1,066.8	**AUF(†)-42-(*)-(+)45-12**						
	24	609.6	6	152.4	**AUF(†)-06-(*)-(+)45-24**	19 15/16 506.41	8¼ 209.55	11 11/16 296.86	22 15/16 582.61	12 7/16 315.91	13 7/16 341.31
			9	228.6	**AUF(†)-09-(*)-(+)45-24**						
			12	304.8	**AUF(†)-12-(*)-(+)45-24**						
			18	457.2	**AUF(†)-18-(*)-(+)45-24**						
			24	609.6	**AUF(†)-24-(*)-(+)45-24**						
			30	762	**AUF(†)-30-(*)-(+)45-24**						
			36	914.4	**AUF(†)-36-(*)-(+)45-24**						
			42	1,066.8	**AUF(†)-42-(*)-(+)45-24**						
Inside bend	36	914.4	6	152.4	**AUF(†)-06-(*)-(+)45-36**	28 7/16 722.31	11 13/16 300.04	16 11/16 423.86	31 3/8 796.93	15 15/16 404.81	18 3/8 466.73
			9	228.6	**AUF(†)-09-(*)-(+)45-36**						
			12	304.8	**AUF(†)-12-(*)-(+)45-36**						
			18	457.2	**AUF(†)-18-(*)-(+)45-36**						
			24	609.6	**AUF(†)-24-(*)-(+)45-36**						
			30	762	**AUF(†)-30-(*)-(+)45-36**						
			36	914.4	**AUF(†)-36-(*)-(+)45-36**						
			42	1,066.8	**AUF(†)-42-(*)-(+)45-36**						
	48	1,219.2	6	152.4	**AUF(†)-06-(*)-(+)45-48**	36 15/16 938.21	15 5/16 388.94	21 5/8 549.28	39 7/8 1012.83	19½ 495.30	23 3/8 593.73
			9	228.6	**AUF(†)-09-(*)-(+)45-48**						
			12	304.8	**AUF(†)-12-(*)-(+)45-48**						
			18	457.2	**AUF(†)-18-(*)-(+)45-48**						
			24	609.6	**AUF(†)-24-(*)-(+)45-48**						
			30	762	**AUF(†)-30-(*)-(+)45-48**						
			36	914.4	**AUF(†)-36-(*)-(+)45-48**						
			42	1,066.8	**AUF(†)-42-(*)-(+)45-48**						





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

45° Vertical bend – U-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	AUF(†)-06-(*)-(+)45-12	15 1/16 382.59	9 13/16 249.24	8 13/16 223.84	15 7/8 403.23	10 15/16 277.81	9 5/16 236.54	16 9/16 420.69	12 304.80	9 3/4 247.65
		9	228.6	AUF(†)-09-(*)-(+)45-12									
		12	304.8	AUF(†)-12-(*)-(+)45-12									
		18	457.2	AUF(†)-18-(*)-(+)45-12									
		24	609.6	AUF(†)-24-(*)-(+)45-12									
		30	762	AUF(†)-30-(*)-(+)45-12									
		36	914.4	AUF(†)-36-(*)-(+)45-12									
		42	1,066.8	AUF(†)-42-(*)-(+)45-12									
24	609.6	6	152.4	AUF(†)-06-(*)-(+)45-24	23 9/16 598.49	13 3/8 339.73	13 13/16 350.84	24 5/16 617.54	14 7/16 366.71	14 1/4 361.95	25 1/16 636.59	15 1/2 393.70	14 11/16 373.06
		9	228.6	AUF(†)-09-(*)-(+)45-24									
		12	304.8	AUF(†)-12-(*)-(+)45-24									
		18	457.2	AUF(†)-18-(*)-(+)45-24									
		24	609.6	AUF(†)-24-(*)-(+)45-24									
		30	762	AUF(†)-30-(*)-(+)45-24									
		36	914.4	AUF(†)-36-(*)-(+)45-24									
		42	1,066.8	AUF(†)-42-(*)-(+)45-24									
36	914.4	6	152.4	AUF(†)-06-(*)-(+)45-36	32 1/16 814.39	16 7/8 428.63	18 3/4 476.25	32 13/16 833.44	18 457.20	19 1/4 488.95	33 9/16 852.49	19 482.60	19 11/16 500.06
		9	228.6	AUF(†)-09-(*)-(+)45-36									
		12	304.8	AUF(†)-12-(*)-(+)45-36									
		18	457.2	AUF(†)-18-(*)-(+)45-36									
		24	609.6	AUF(†)-24-(*)-(+)45-36									
		30	762	AUF(†)-30-(*)-(+)45-36									
		36	914.4	AUF(†)-36-(*)-(+)45-36									
		42	1,066.8	AUF(†)-42-(*)-(+)45-36									
48	1,219.2	6	152.4	AUF(†)-06-(*)-(+)45-48	40 1/2 1028.70	20 3/8 517.53	23 3/4 603.25	41 5/16 1049.34	21 1/2 546.10	24 3/16 614.36	42 1/16 1068.39	22 9/16 573.09	24 5/8 625.48
		9	228.6	AUF(†)-09-(*)-(+)45-48									
		12	304.8	AUF(†)-12-(*)-(+)45-48									
		18	457.2	AUF(†)-18-(*)-(+)45-48									
		24	609.6	AUF(†)-24-(*)-(+)45-48									
		30	762	AUF(†)-30-(*)-(+)45-48									
		36	914.4	AUF(†)-36-(*)-(+)45-48									
		42	1,066.8	AUF(†)-42-(*)-(+)45-48									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

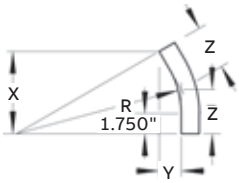
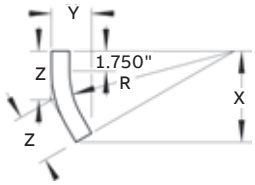
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

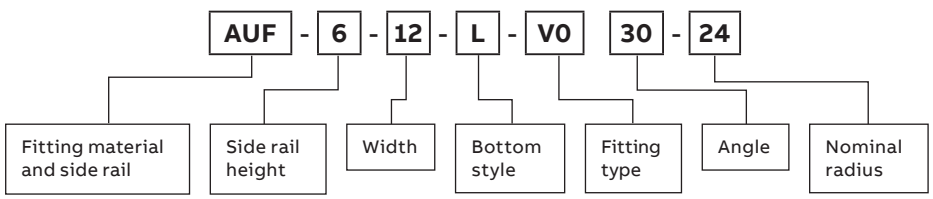
30° U-style vertical bend fittings

30° Vertical bend – U-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	AUF(†)-06-(*)-(+)30-12	9¼ 234.95	2½ 63.50	4 15/16 125.41	11⅜ 288.93	6 11/16 169.86	6 1/16 153.99
			9	228.6	AUF(†)-09-(*)-(+)30-12						
			12	304.8	AUF(†)-12-(*)-(+)30-12						
			18	457.2	AUF(†)-18-(*)-(+)30-12						
			24	609.6	AUF(†)-24-(*)-(+)30-12						
			30	762	AUF(†)-30-(*)-(+)30-12						
			36	914.4	AUF(†)-36-(*)-(+)30-12						
			42	1,066.8	AUF(†)-42-(*)-(+)30-12						
	24	609.6	6	152.4	AUF(†)-06-(*)-(+)30-24	15¼ 387.35	4 1/16 103.19	8 3/16 207.96	17⅜ 441.33	8¼ 209.55	9 5/16 236.54
			9	228.6	AUF(†)-09-(*)-(+)30-24						
			12	304.8	AUF(†)-12-(*)-(+)30-24						
			18	457.2	AUF(†)-18-(*)-(+)30-24						
			24	609.6	AUF(†)-24-(*)-(+)30-24						
			30	762	AUF(†)-30-(*)-(+)30-24						
			36	914.4	AUF(†)-36-(*)-(+)30-24						
			42	1,066.8	AUF(†)-42-(*)-(+)30-24						
Inside bend	36	914.4	6	152.4	AUF(†)-06-(*)-(+)30-36	21¼ 250.83	5 11/16 250.83	11⅜ 250.83	23⅜ 250.83	9⅞ 250.83	12½ 317.50
			9	228.6	AUF(†)-09-(*)-(+)30-36						
			12	304.8	AUF(†)-12-(*)-(+)30-36						
			18	457.2	AUF(†)-18-(*)-(+)30-36						
			24	609.6	AUF(†)-24-(*)-(+)30-36						
			30	762	AUF(†)-30-(*)-(+)30-36						
			36	914.4	AUF(†)-36-(*)-(+)30-36						
			42	1,066.8	AUF(†)-42-(*)-(+)30-36						
	48	1,219.2	6	152.4	AUF(†)-06-(*)-(+)30-48	21¼ 539.75	7 5/16 185.74	14⅝ 371.48	29⅜ 746.13	11½ 292.10	15¾ 400.05
			9	228.6	AUF(†)-09-(*)-(+)30-48						
			12	304.8	AUF(†)-12-(*)-(+)30-48						
			18	457.2	AUF(†)-18-(*)-(+)30-48						
			24	609.6	AUF(†)-24-(*)-(+)30-48						
			30	762	AUF(†)-30-(*)-(+)30-48						
			36	914.4	AUF(†)-36-(*)-(+)30-48						
			42	1,066.8	AUF(†)-42-(*)-(+)30-48						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



30° Vertical bend – U-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	AUF(†)-06-(*)-(+)30-12	11 13/16 300.04	7 9/16 192.09	6 5/16 160.34	12 3/8 314.33	8 11/16 220.66	6 5/8 168.28	12 7/8 327.03	9 3/4 247.65	6 7/8 174.63
		9	228.6	AUF(†)-09-(*)-(+)30-12									
		12	304.8	AUF(†)-12-(*)-(+)30-12									
		18	457.2	AUF(†)-18-(*)-(+)30-12									
		24	609.6	AUF(†)-24-(*)-(+)30-12									
		30	762	AUF(†)-30-(*)-(+)30-12									
		36	914.4	AUF(†)-36-(*)-(+)30-12									
		42	1,066.8	AUF(†)-42-(*)-(+)30-12									
24	609.6	6	152.4	AUF(†)-06-(*)-(+)30-24	17 13/16 452.44	9 3/16 233.36	9 9/16 242.89	18 3/8 466.73	10 1/4 260.35	9 13/16 249.24	18 7/8 479.43	11 5/16 287.34	10 1/8 257.18
		9	228.6	AUF(†)-09-(*)-(+)30-24									
		12	304.8	AUF(†)-12-(*)-(+)30-24									
		18	457.2	AUF(†)-18-(*)-(+)30-24									
		24	609.6	AUF(†)-24-(*)-(+)30-24									
		30	762	AUF(†)-30-(*)-(+)30-24									
		36	914.4	AUF(†)-36-(*)-(+)30-24									
		42	1,066.8	AUF(†)-42-(*)-(+)30-24									
36	914.4	6	152.4	AUF(†)-06-(*)-(+)30-36	23 13/16 273.05	10 3/4 273.05	12 3/4 323.85	24 3/8 619.13	11 7/8 301.63	13 1/16 331.79	24 7/8 631.83	12 15/16 328.61	13 5/16 338.14
		9	228.6	AUF(†)-09-(*)-(+)30-36									
		12	304.8	AUF(†)-12-(*)-(+)30-36									
		18	457.2	AUF(†)-18-(*)-(+)30-36									
		24	609.6	AUF(†)-24-(*)-(+)30-36									
		30	762	AUF(†)-30-(*)-(+)30-36									
		36	914.4	AUF(†)-36-(*)-(+)30-36									
		42	1,066.8	AUF(†)-42-(*)-(+)30-36									
48	1,219.2	6	152.4	AUF(†)-06-(*)-(+)30-48	29 13/16 757.24	12 3/8 314.33	16 406.40	30 3/8 771.53	13 1/2 342.90	16 1/4 412.75	30 7/8 784.23	14 9/16 369.89	16 9/16 420.69
		9	228.6	AUF(†)-09-(*)-(+)30-48									
		12	304.8	AUF(†)-12-(*)-(+)30-48									
		18	457.2	AUF(†)-18-(*)-(+)30-48									
		24	609.6	AUF(†)-24-(*)-(+)30-48									
		30	762	AUF(†)-30-(*)-(+)30-48									
		36	914.4	AUF(†)-36-(*)-(+)30-48									
		42	1,066.8	AUF(†)-42-(*)-(+)30-48									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

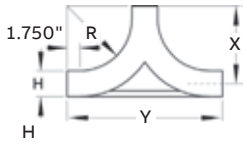
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

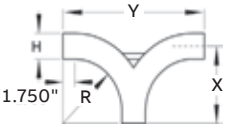
Metallic - Aluminum fittings

U-style vertical tee up/down fittings

Vertical tee up/down – U-style

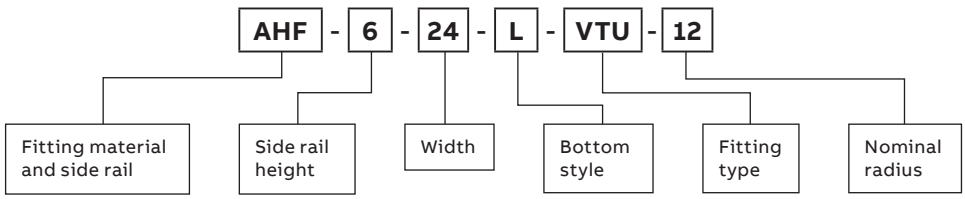
	Nominal Radius		Nominal Width				Side rail height "H"			
							4" (101.6mm)		5" (127mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up	12	304.8	6	152.4	AUF(†)-06-(*)-VTU12	AUF(†)-06-(*)-VTU12	15 13/16 401.64	31 11/16 804.86	16 5/16 414.34	32 9/16 827.09
			9	228.6	AUF(†)-09-(*)-VTU12	AUF(†)-09-(*)-VTU12				
			12	304.8	AUF(†)-12-(*)-VTU12	AUF(†)-12-(*)-VTU12				
			18	457.2	AUF(†)-18-(*)-VTU12	AUF(†)-18-(*)-VTU12				
			24	609.6	AUF(†)-24-(*)-VTU12	AUF(†)-24-(*)-VTU12				
			30	762	AUF(†)-30-(*)-VTU12	AUF(†)-30-(*)-VTU12				
			36	914.4	AUF(†)-36-(*)-VTU12	AUF(†)-36-(*)-VTU12				
			42	1,066.8	AUF(†)-42-(*)-VTU12	AUF(†)-42-(*)-VTU12				
	24	609.6	6	152.4	AUF(†)-06-(*)-VTU24	AUF(†)-06-(*)-VTU24	27 13/16 706.44	55 11/16 1414.46	28 5/16 719.14	56 9/16 1436.69
			9	228.6	AUF(†)-09-(*)-VTU24	AUF(†)-09-(*)-VTU24				
			12	304.8	AUF(†)-12-(*)-VTU24	AUF(†)-12-(*)-VTU24				
			18	457.2	AUF(†)-18-(*)-VTU24	AUF(†)-18-(*)-VTU24				
			24	609.6	AUF(†)-24-(*)-VTU24	AUF(†)-24-(*)-VTU24				
			30	762	AUF(†)-30-(*)-VTU24	AUF(†)-30-(*)-VTU24				
			36	914.4	AUF(†)-36-(*)-VTU24	AUF(†)-36-(*)-VTU24				
			42	1,066.8	AUF(†)-42-(*)-VTU24	AUF(†)-42-(*)-VTU24				
Down	36	914.4	6	152.4	AUF(†)-06-(*)-VTU36	AUF(†)-06-(*)-VTU36	39 13/16 1011.24	79 11/16 2024.06	40 5/16 1023.94	80 9/16 2046.29
			9	228.6	AUF(†)-09-(*)-VTU36	AUF(†)-09-(*)-VTU36				
			12	304.8	AUF(†)-12-(*)-VTU36	AUF(†)-12-(*)-VTU36				
			18	457.2	AUF(†)-18-(*)-VTU36	AUF(†)-18-(*)-VTU36				
			24	609.6	AUF(†)-24-(*)-VTU36	AUF(†)-24-(*)-VTU36				
			30	762	AUF(†)-30-(*)-VTU36	AUF(†)-30-(*)-VTU36				
			36	914.4	AUF(†)-36-(*)-VTU36	AUF(†)-36-(*)-VTU36				
			42	1,066.8	AUF(†)-42-(*)-VTU36	AUF(†)-42-(*)-VTU36				
	48	1,219.2	6	152.4	AUF(†)-06-(*)-VTU48	AUF(†)-06-(*)-VTU48	51 13/16 1316.04	103 11/16 2633.66	52 5/16 1328.74	104 9/16 2655.89
			9	228.6	AUF(†)-09-(*)-VTU48	AUF(†)-09-(*)-VTU48				
			12	304.8	AUF(†)-12-(*)-VTU48	AUF(†)-12-(*)-VTU48				
			18	457.2	AUF(†)-18-(*)-VTU48	AUF(†)-18-(*)-VTU48				
			24	609.6	AUF(†)-24-(*)-VTU48	AUF(†)-24-(*)-VTU48				
			30	762	AUF(†)-30-(*)-VTU48	AUF(†)-30-(*)-VTU48				
			36	914.4	AUF(†)-36-(*)-VTU48	AUF(†)-36-(*)-VTU48				
			42	1,066.8	AUF(†)-42-(*)-VTU48	AUF(†)-42-(*)-VTU48				





(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-Style. These systems are interchangeable.

Fitting number selection

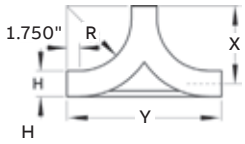


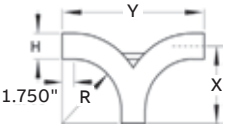
SECTION 6

—

Vertical tee up/down – U-style (continued)

	Nominal Radius		Nominal Width				Side rail height "H"			
							6" (152.4mm)		7" (177.8mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up	12	304.8	6	152.4	AUF(†)-06-(*)-VTU12	AUF(†)-06-(*)-VTU12	16⅞ 428.63	33¾ 857.25	17⅜ 441.33	34¾ 882.65
			9	228.6	AUF(†)-09-(*)-VTU12	AUF(†)-09-(*)-VTU12				
			12	304.8	AUF(†)-12-(*)-VTU12	AUF(†)-12-(*)-VTU12				
			18	457.2	AUF(†)-18-(*)-VTU12	AUF(†)-18-(*)-VTU12				
			24	609.6	AUF(†)-24-(*)-VTU12	AUF(†)-24-(*)-VTU12				
			30	762	AUF(†)-30-(*)-VTU12	AUF(†)-30-(*)-VTU12				
			36	914.4	AUF(†)-36-(*)-VTU12	AUF(†)-36-(*)-VTU12				
			42	1,066.8	AUF(†)-42-(*)-VTU12	AUF(†)-42-(*)-VTU12				
	24	609.6	6	152.4	AUF(†)-06-(*)-VTU24	AUF(†)-06-(*)-VTU24	28⅞ 733.43	57¾ 1466.85	29⅜ 746.13	58¾ 1492.25
			9	228.6	AUF(†)-09-(*)-VTU24	AUF(†)-09-(*)-VTU24				
			12	304.8	AUF(†)-12-(*)-VTU24	AUF(†)-12-(*)-VTU24				
			18	457.2	AUF(†)-18-(*)-VTU24	AUF(†)-18-(*)-VTU24				
			24	609.6	AUF(†)-24-(*)-VTU24	AUF(†)-24-(*)-VTU24				
			30	762	AUF(†)-30-(*)-VTU24	AUF(†)-30-(*)-VTU24				
			36	914.4	AUF(†)-36-(*)-VTU24	AUF(†)-36-(*)-VTU24				
			42	1,066.8	AUF(†)-42-(*)-VTU24	AUF(†)-42-(*)-VTU24				
Down	36	914.4	6	152.4	AUF(†)-06-(*)-VTU36	AUF(†)-06-(*)-VTU36	40⅞ 1038.23	81¾ 2076.45	41⅜ 1050.93	82¾ 2101.85
			9	228.6	AUF(†)-09-(*)-VTU36	AUF(†)-09-(*)-VTU36				
			12	304.8	AUF(†)-12-(*)-VTU36	AUF(†)-12-(*)-VTU36				
			18	457.2	AUF(†)-18-(*)-VTU36	AUF(†)-18-(*)-VTU36				
			24	609.6	AUF(†)-24-(*)-VTU36	AUF(†)-24-(*)-VTU36				
			30	762	AUF(†)-30-(*)-VTU36	AUF(†)-30-(*)-VTU36				
			36	914.4	AUF(†)-36-(*)-VTU36	AUF(†)-36-(*)-VTU36				
			42	1,066.8	AUF(†)-42-(*)-VTU36	AUF(†)-42-(*)-VTU36				
	48	1,219.2	6	152.4	AUF(†)-06-(*)-VTU48	AUF(†)-06-(*)-VTU48	52⅞ 1343.03	105¾ 2686.05	53⅜ 1355.73	106¾ 2711.45
			9	228.6	AUF(†)-09-(*)-VTU48	AUF(†)-09-(*)-VTU48				
			12	304.8	AUF(†)-12-(*)-VTU48	AUF(†)-12-(*)-VTU48				
			18	457.2	AUF(†)-18-(*)-VTU48	AUF(†)-18-(*)-VTU48				
			24	609.6	AUF(†)-24-(*)-VTU48	AUF(†)-24-(*)-VTU48				
			30	762	AUF(†)-30-(*)-VTU48	AUF(†)-30-(*)-VTU48				
			36	914.4	AUF(†)-36-(*)-VTU48	AUF(†)-36-(*)-VTU48				
			42	1,066.8	AUF(†)-42-(*)-VTU48	AUF(†)-42-(*)-VTU48				





(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-Style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

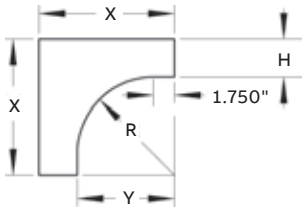
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum fittings

U-style cable support fittings

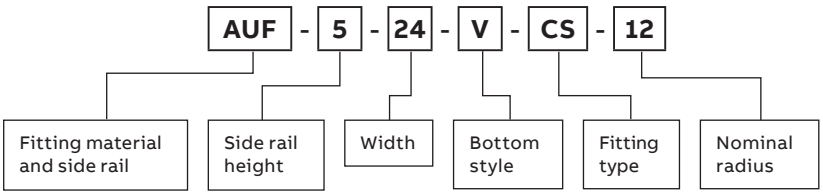
Cable support fitting – U-style



Nominal Radius		Nominal Width			Side rail height "H"					
					4" (101.6mm)		5" (127mm)		6" (152.4mm)	
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-(+)90-12	17 15/16 455.61	13 3/4 349.25	18 13/16 477.84	13 3/4 349.25	20 508.00	13 3/4 349.25
		9	228.6	AHF(†)-09-(*)-(+)90-12						
		12	304.8	AHF(†)-12-(*)-(+)90-12						
		18	457.2	AHF(†)-18-(*)-(+)90-12						
		24	609.6	AHF(†)-24-(*)-(+)90-12						
		30	762	AHF(†)-30-(*)-(+)90-12						
		36	914.4	AHF(†)-36-(*)-(+)90-12						
		42	1,066.8	AHF(†)-42-(*)-(+)90-12						
24	609.6	6	152.4	AHF(†)-06-(*)-(+)90-24	29 15/16 760.41	25 3/4 654.05	30 13/16 782.64	25 3/4 654.05	32 812.80	25 3/4 654.05
		9	228.6	AHF(†)-09-(*)-(+)90-24						
		12	304.8	AHF(†)-12-(*)-(+)90-24						
		18	457.2	AHF(†)-18-(*)-(+)90-24						
		24	609.6	AHF(†)-24-(*)-(+)90-24						
		30	762	AHF(†)-30-(*)-(+)90-24						
		36	914.4	AHF(†)-36-(*)-(+)90-24						
		42	1,066.8	AHF(†)-42-(*)-(+)90-24						
36	914.4	6	152.4	AHF(†)-06-(*)-(+)90-36	41 15/16 1065.21	37 3/4 958.85	42 13/16 1087.44	37 3/4 958.85	44 1117.60	37 3/4 958.85
		9	228.6	AHF(†)-09-(*)-(+)90-36						
		12	304.8	AHF(†)-12-(*)-(+)90-36						
		18	457.2	AHF(†)-18-(*)-(+)90-36						
		24	609.6	AHF(†)-24-(*)-(+)90-36						
		30	762	AHF(†)-30-(*)-(+)90-36						
		36	914.4	AHF(†)-36-(*)-(+)90-36						
		42	1,066.8	AHF(†)-42-(*)-(+)90-36						
48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)90-48	53 15/16 1370.01	49 3/4 1263.65	54 13/16 1392.24	49 3/4 1263.65	56 1422.40	49 3/4 1263.65
		9	228.6	AHF(†)-09-(*)-(+)90-48						
		12	304.8	AHF(†)-12-(*)-(+)90-48						
		18	457.2	AHF(†)-18-(*)-(+)90-48						
		24	609.6	AHF(†)-24-(*)-(+)90-48						
		30	762	AHF(†)-30-(*)-(+)90-48						
		36	914.4	AHF(†)-36-(*)-(+)90-48						
		42	1,066.8	AHF(†)-42-(*)-(+)90-48						

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

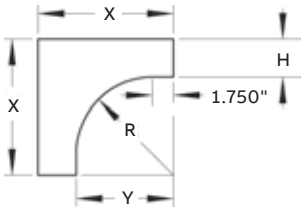
Fitting number selection



SECTION 6

Cable support fitting – U-style (continued)

Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Side rail height "H" 7" (177.8mm) X (in) / (mm)	Side rail height "H" 7" (177.8mm) Y (in) / (mm)
12	304.8	6	152.4	AHF(†)-06-(*)-(+)90-12	21 533.40	13¾ 349.25
		9	228.6	AHF(†)-09-(*)-(+)90-12		
		12	304.8	AHF(†)-12-(*)-(+)90-12		
		18	457.2	AHF(†)-18-(*)-(+)90-12		
		24	609.6	AHF(†)-24-(*)-(+)90-12		
		30	762	AHF(†)-30-(*)-(+)90-12		
		36	914.4	AHF(†)-36-(*)-(+)90-12		
		42	1,066.8	AHF(†)-42-(*)-(+)90-12		
24	609.6	6	152.4	AHF(†)-06-(*)-(+)90-24	33 838.20	25¾ 654.05
		9	228.6	AHF(†)-09-(*)-(+)90-24		
		12	304.8	AHF(†)-12-(*)-(+)90-24		
		18	457.2	AHF(†)-18-(*)-(+)90-24		
		24	609.6	AHF(†)-24-(*)-(+)90-24		
		30	762	AHF(†)-30-(*)-(+)90-24		
		36	914.4	AHF(†)-36-(*)-(+)90-24		
		42	1,066.8	AHF(†)-42-(*)-(+)90-24		
36	914.4	6	152.4	AHF(†)-06-(*)-(+)90-36	45 1143.00	37¾ 958.85
		9	228.6	AHF(†)-09-(*)-(+)90-36		
		12	304.8	AHF(†)-12-(*)-(+)90-36		
		18	457.2	AHF(†)-18-(*)-(+)90-36		
		24	609.6	AHF(†)-24-(*)-(+)90-36		
		30	762	AHF(†)-30-(*)-(+)90-36		
		36	914.4	AHF(†)-36-(*)-(+)90-36		
		42	1,066.8	AHF(†)-42-(*)-(+)90-36		
48	1,219.2	6	152.4	AHF(†)-06-(*)-(+)90-48	57 1447.80	49¾ 1263.65
		9	228.6	AHF(†)-09-(*)-(+)90-48		
		12	304.8	AHF(†)-12-(*)-(+)90-48		
		18	457.2	AHF(†)-18-(*)-(+)90-48		
		24	609.6	AHF(†)-24-(*)-(+)90-48		
		30	762	AHF(†)-30-(*)-(+)90-48		
		36	914.4	AHF(†)-36-(*)-(+)90-48		
		42	1,066.8	AHF(†)-42-(*)-(+)90-48		



(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Metallic - Aluminum
Helix™ cable tray fitting

01 Right-turn assembly
02 Left-turn assembly

The Helix cable tray fitting. Efficiency is in its DNA

Go from horizontal to vertical with maximum cable protection in minimum space
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient. The latest evolution in cable tray fittings, the Helix fitting assembly was developed specifically for use in confined areas. It allows installers to transition from horizontal to vertical surfaces in less time, using significantly less space.

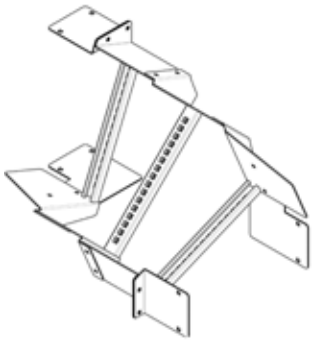
- Enables installation close to walls and other surfaces, eliminating the need for distance
- Provides enhanced cable protection in confined spaces
- Secures cables within fitting for clean, organized cable runs
- Ideally suited for confined spaces – no need to distance cable runs from wall to make transition
- Efficient cable protection in areas where conventional fittings will not fit
- Convenient right- or left-turn configurations
- Available in aluminum, pregalvanized steel and stainless steel; 12" (304.8mm) and 24" (609.6mm) widths, 6" (152.4mm) side rails
- Delivered pre-assembled and ready to install; drastically reduces time spent configuring fittings on site
- BIM models available upon request

For more information view the online video:
www.tnb.com/pub/en/node/2027

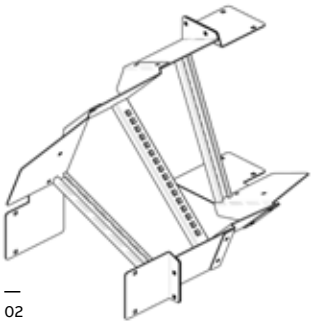
Helix™ cable tray fitting

Cat. No.	Material	Side rail (in)	Side rail (mm)	Width (in)	Width (mm)	Direction
AUF612LHVR	Aluminum	6	152.4	12	304.8	Right turn
AUF612LHVL						Left turn
AUF624LHVR				24	609.6	Right turn
AUF624LHVL						Left turn
SPF612LHVR	Pregalvanized steel			12	304.8	Right turn
SPF612LHVL						Left turn
SPF624LHVR				24	609.6	Right turn
SPF624LHVL						Left turn
SSF612LHVR	Stainless steel			12	304.8	Right turn
SSF612LHVL						Left turn
SSF624LHVR				24	609.6	Right turn
SSF624LHVL						Left turn

Supports should be positioned within 24" (600mm) of each Helix fitting extremity.



01

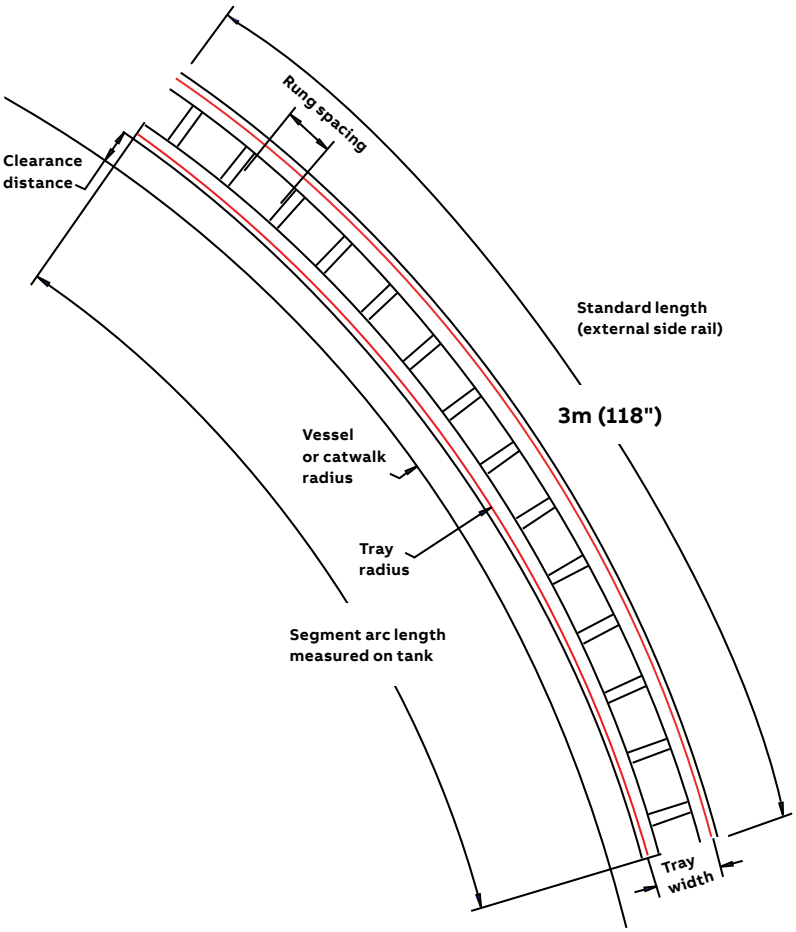


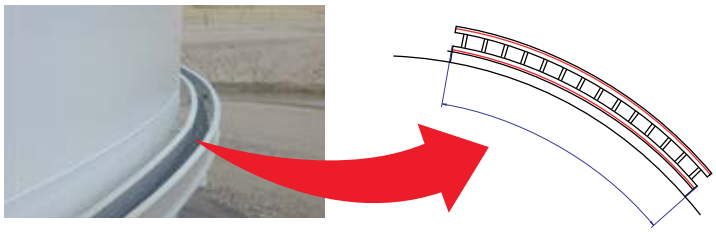
02

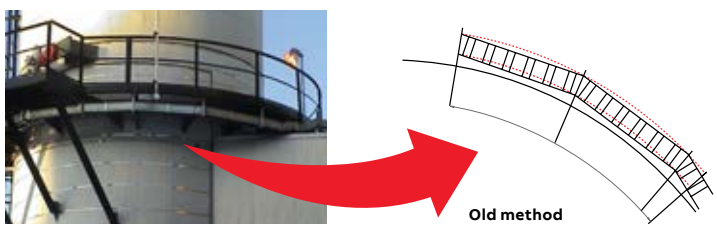
Metallic - Aluminum

Accessories - Large radius aluminum/cable tray

Large radius aluminum/cable tray







This cable tray design offers a custom-built cable support system for each petrochemical project tank or tower. It is typically installed around the outer perimeter of the catwalks and stairs that are mounted on the tank or vessel.

Thomas & Betts takes pride in manufacturing a complete system to meet your most rigorous requirements. Our cable support systems reduce the costly and labor-intensive modifications required to assemble straight sections, splice plates and accessories to fit your tank or vessel.

Features and benefits

- No mitered joints
- No bent splice plates
- Less costly
- Easier to install
- Faster to install
- Fewer skills required to install
- Cleaner lines
- Improved functionality and aesthetics

Data Required for Quotation

Height of the cable tray: X" (Xmm)
Width of the cable tray: X" (Xmm)
Rung spacing: X" (Xmm)
Load rating and support span: Xlb/ft (Xkg/m)
Radius of tank or vessel: X" (Xmm)
Clearance distance: X" (Xmm)
Quantity required: (number of segments)
Or total arc length: (measured on structure)

Thomas & Betts large radius aluminum cable tray systems mount flawlessly with no extra cutting, set up or surplus material. With the option of pre-assembly of this cable tray system prior to erection of the tank or vessel, you can drastically reduce installing time.

* NOTE: T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—
01 / 02 Solid covers
—
03 Ventilated flanged covers
—
04 Peaked flanged covers / peaked ventilated covers

Straight cover number selection

Tray covers
Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Cover mounting hardware must be ordered separately.

1) Solid covers (01 & 02)
These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have a ½" (12.7mm) flange.

Cover mounting hardware must be ordered separately.

2) Ventilated flanged covers (03)
This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.

3) For extreme applications: Peaked flanged covers / peaked ventilated covers (04)
Peaked covers offer mechanical protection, reduce pooling of liquids on the cover and the accumulation of snow or ice. Peaked covers have a 15° angle.

Cover mounting hardware must be ordered separately.

NOTE: Aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—
01

—
02

—
03

—
04

(ABW - 3 - 12) - SNC - 72

Material prefix	
Aluminum	**ABW**

Cover series	
3	

Width		
6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type	
Solid non-flanged cover	**SNC**
Solid flanged cover	**SFC**
Ventilated flanged cover	**VFC**
Peaked flanged cover*	**PFC**
Peaked ventilated flanged cover*	**PVC**

Length	
72 ft	**72**
3m	**3**

Metallic - Aluminum covers

Fittings covers

Fittings covers - Number selection

A **UW** - **12** - **SNC** - **HB** **90** - **24**

Material prefix
Aluminum **A**

Fitting style prefix
U-beam **UW**
H-beam **HW**

Width

6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type
Solid non-flanged cover **SNC**
Solid flanged cover **SFC**
Ventilated flanged cover **VFC**

Fitting type
Horizontal bend **HB**
Vertical inside bend **VI**

Degree

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius

12"	(304.8mm)	**12**
24"	(609.6mm)	**24**
36"	(914.4mm)	**36**
48"	(1,219.2mm)	**48**

A **UW** - **18** - **12** - **SNC** - **RT** - **12**

Material prefix
Aluminum **A**

Fitting style prefix
U-beam **UW**
H-beam **HW**

Width 1

6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Width 2**

6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type
Solid non-flanged cover **SNC**
Solid flanged cover **SFC**
Ventilated flanged cover **VFC**

Fitting type

Horizontal reducing tee	**RT**
Horizontal expanding tee	**ET**
Horizontal expanding cross	**EX**
Horizontal straight reducer	**HSR***
Horizontal left reducer	**HRL***
Horizontal right reducer	**HRR***
Horizontal tee	**HT**
Horizontal cross	**HX**
Vertical tee up	**VTU**
Horizontal wye right	**HYR***
Vertical wye left	**HYL***

Nominal radius

12"	(304.8mm)	**12**
24"	(609.6mm)	**24**
36"	(914.4mm)	**36**
48"	(1,219.2mm)	**48**

NOTE: For ET and EX, W2 > W1.
For RT, HSR, HLR, HRR, W1 > W2.
** Not required for VTU, HYR, HYL, HT, HX.
* Radius not required for HSR, HLR, HRR, HYR, HYL.

A **UW** - **4** - **12** - **SNC** - **VO** **90** - **24**

Material prefix
Aluminum **A**

Fitting style prefix
U-beam **UW**
H-beam **HW**

Side rail height

4"	(101.6mm)	**4**
5"	(127mm)	**5**
6"	(152.4mm)	**6**
7"	(177.8mm)	**7**

Width

6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type
Solid non-flanged cover **SNC**
Solid flanged cover **SFC**
Ventilated flanged cover **VFC**

Fitting type
Vertical outside bend **VO**
Vertical tee down **VTD**
Cable support **CS**

Degree

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius

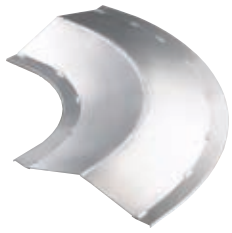
12"	(304.8mm)	**12**
24"	(609.6mm)	**24**
36"	(914.4mm)	**36**
48"	(1,219.2mm)	**48**

NOTE: For peaked fitting covers, refer to page A-101.
* Not required for VTD nor for CS.

Metallic - Aluminum covers

Peaked covers

Horizontal bend/vertical inside bend (peaked cover) - Number selection



NOTE: Pregalvanized not available.

A	UW	-	12	-	PFC	-	HB	90	-	24

Fitting style prefix
U-beam **UW**
H-beam **HW**

Material prefix
Aluminum **A**

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

Cover type
Peaked flanged cover **PFC**
Peaked ventilated flanged cover **PVC**

Fitting type
Horizontal bend **HB**
Vertical inside bend **VI**

Degree
30° **30**
45° **45**
60° **60**
90° **90**

Nominal radius
12" (304.8mm) **12**
24" (609.6mm) **24**
36" (914.4mm) **36**
48" (1,219.2mm) **48**

Vertical outside bend (peaked cover) - Number selection

* Not required for VI
NOTE: Pregalvanized not available.

A	UW	-	4	-	12	-	PFC	-	VO	-	90	-	24

Fitting style prefix
U-beam **UW**
H-beam **HW**

Material prefix
Aluminum **A**

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

Cover type
Peaked flanged cover **PFC**
Peaked ventilated flanged cover **PVC**

Side rail height*
4" (101.6mm) **4**
5" (127mm) **5**
6" (152.4mm) **6**
7" (177.8mm) **7**

Fitting type
Vertical outside bend **VO**
Vertical inside bend **VI**

Degree
30° **30**
45° **45**
60° **60**
90° **90**

Nominal radius
12" (304.8mm) **12**
24" (609.6mm) **24**
36" (914.4mm) **36**
48" (1,219.2mm) **48**

Horizontal tee (peaked cover) - Number selection

NOTE: Pregalvanized not available.

A	UW	-	12	-	PFC	-	HB	-	24

Fitting style prefix
U-beam **UW**
H-beam **HW**

Material prefix
Aluminum **A**

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

Cover type
Peaked flanged cover **PFC**
Peaked ventilated flanged cover **PVC**

Fitting type
Horizontal tee **HT**

Nominal radius
12" (304.8mm) **12**
24" (609.6mm) **24**
36" (914.4mm) **36**
48" (1,219.2mm) **48**

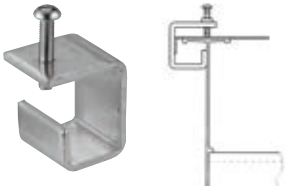
Metallic - Aluminum covers

Accessories for covers

Quantity of standard cover clamps required			
Straight section 1.8m (6ft)	4 pcs.	Tees	6 pcs.
Straight section 3m (10ft) and 3.7m (12ft)	6 pcs.	Crosses	8 pcs.
Horizontal and vertical bends	4 pcs.		

IMPORTANT NOTE: "B" in Cat. No. indicates this accessory can be used for both styles.
NOTE: When using heavy-duty cover clamp, only half the quantity of pieces are required.

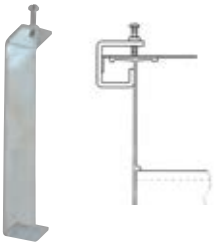
Economical cover clamp



Cat. No.	Material	Side rail height (in)	Side rail height (mm)
ABW-SCC	Zinc-plated steel	All sizes	All sizes

Rigid indoor cover clamp for flat and flanged covers.
Cannot be used with U-style fittings.

Universal fitting cover clamp



Cat. No.	Material	Side rail height (in)	Side rail height (mm)
ABW(*)FCC	Zinc-plated steel	4	101.6
		5	127
		6	152.4
		7	177.8

Rigid indoor cover clamp for flat and flanged covers.
(*) Insert side rail height.

Heavy-duty cover clamp

Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
ABW4(*)HCC	Aluminum	4	101.6	4	101.6
ABW5(*)HCC		5	127	9	127
ABW6(*)HCC		6	152.4	12	152.4
ABW7(*)HCC		7	177.8	18	457.2
				24	609.6
				30	762
				36	914.4
				42	1.066.8

Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.
(*) Insert tray width.

—

Extreme heavy-duty cover clamp

Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
ABW4(*)ECC	Aluminum	4	101.6	4	101.6
ABW5(*)ECC		5	127	9	127
ABW6(*)ECC		6	152.4	12	152.4
ABW7(*)ECC		7	177.8	18	457.2
				24	609.6
				30	762
				36	914.4
				42	1.066.8

Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.
(*) Insert tray width.

—

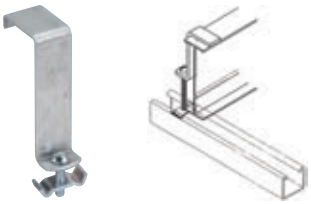
Heavy-duty peaked cover clamp

Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
ABW4(*)HPC	Aluminum	4	101.6	4	101.6
ABW5(*)HPC		5	127	9	127
ABW6(*)HPC		6	152.4	12	152.4
ABW7(*)HPC		7	177.8	18	457.2
				24	609.6
				30	762
				36	914.4
				42	1.066.8

Wraparound design formed to fit peaked cover for outdoor applications. Hardware included.
(*) Insert tray width.

—

Heavy-duty peaked cover clamp



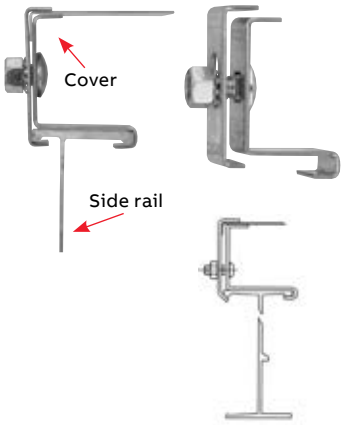
Cat. No.	Material	Side rail height (in)	Side rail height (mm)
ABW(*)HDC	Aluminum	4	101.6
		5	127
		6	152.4
		7	177.8

Designed to secure cable tray to support system.
NOTE: Hardware included (*) Insert side rail height.

Metallic - Aluminum covers

Accessories for covers

Raised cover clamp



Cat. No.	Material	Cover series	Cover offset (in)*	Cover offset (mm)*
ABW3(*)RCC	Zinc-plated steel	3	1	25.4
			2	50.8
			3	76.2

* Cover offset. NOTE: For straight section and PFC and SFC covers only.
Designed to raise cover above tray for added ventilation.

Raised cover clamp

Cat. No.	Material	Tray width (in)*	Tray width (mm)*
ABW(*)PEC	Aluminum	6	152.4
		9	228.6
		12	304.8
		18	457.2
		24	609.6
		30	762
		36	914.4
		42	1,066.8

* Insert tray width. Used for transition between peaked covers to straight covers.

Raised cover clamp

Cat. No.	Material	Tray width (in)*	Tray width (mm)*
ABW(*)PEC	Plastic	6	152.4
		9	228.6
		12	304.8
		18	457.2
		24	609.6
		30	762
		36	914.4
		42	1,066.8

* Insert tray width.

Metallic - Aluminum splice plates

Snap-in and transition plates

Snap-in splice plate

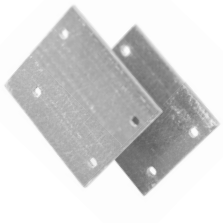
- Designed to lock into place for easy alignment and installation
- Packaged in pairs with zinc-plated hardware
- Kit contents: 8 bolts, 8 nuts, 8 washers, ⅜" diameter
- Provided as standard with each straight and fitting

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
ABW-4-SSP	Aluminum	4	101.6
ABW-5-SSP	Aluminum	5	127
ABW-6-SSP	Aluminum	6	152.4
ABW-7-SSP	Aluminum	7	177.8

Snap-in expansion splice plate

- Allows for a 1" (25.4mm) expansion or contraction of tray system
- Packaged in pairs with zinc-plated hardware
- Kit contents: 8 bolts, 4 nuts, 4 stop nuts, ⅜" diameter

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
ABW-4-SSP	Aluminum	4	101.6
ABW-5-SSP	Aluminum	5	127
ABW-6-SSP	Aluminum	6	152.4
ABW-7-SSP	Aluminum	7	177.8



Transition splice plate

- Designed to make the transition from aluminum to steel cable tray. Works for all 6" side rails
- Allows for a 1" (25.4mm) expansion or contraction of tray system
- Packaged in pairs with zinc-plated hardware
- Kit contents: 8 bolts, 4 nuts, 4 stop nuts, ⅜" diameter

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
XNM-XP400-(*)-SS6	Polyester/fiberglass	6	152.4

Each pair of plates:
8 x carriage bolt ⅜ x 1" SS316
8 x ⅜" serrated flange nut SS316

Metallic - Aluminum splice plates

Flexible coupler and vertical adjustable plate

The flexible coupler provides easy installation without cutting cable tray side rails. Once installed, the bendable plate allows for electrical continuity, therefore eliminating the requirement for a bonding jumper.

Flexible coupler

Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
ABW-(*)06HBP	Aluminum	4 to 7	101.6 to 177.8	6	152.4
ABW-(*)09HBP				9	228.6
ABW-(*)12HBP				12	304.8
ABW-(*)18HBP				18	457.2
ABW-(*)24HBP				24	609.6
ABW-(*)30HBP				30	762
ABW-(*)36HBP				36	914.4

* Insert side rail height

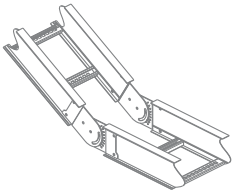
Optional rung information for flexible coupler

Cat. No.	Material	Tray width (in)	Tray width (mm)
ABW-R(*)HBP	Aluminum	06	152.4
		09	228.6
		12	304.8
		18	457.2
		24	609.6
		30	762
		36	914.4

* Insert tray width

- Hinged vertical plates provide maximum flexibility for changes in elevation
- Furnished in pairs with hardware
- Kit contents: 10 carriage bolts, 2 cap screws, 12 serrated flange nuts, ⅜" diameter

Vertical adjustable plate

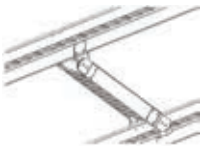


Cat. No.	Material	Side rail height (in)	Tray width (mm)
ABW-4-VSP	Aluminum	4	101.6
ABW-5-VSP		5	127
ABW-6-VSP		6	152.4
ABW-7-VSP		7	177.8

Metallic - Aluminum splice plates

Branch pivot connectors, box-to-tray plates and closure end plate

Box-to-tray plates



Cat. No.	Material	Side rail height (in)	Side rail height (mm)
ABW-4-BPC	Aluminum	4	101.6
ABW-5-BPC		5	127
ABW-6-BPC		6	152.4
ABW-7-BPC		7	177.8

NOTE: Allows cables to run from one tray level to another.

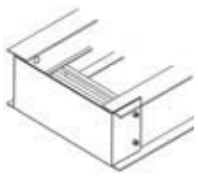
- Designed to secure tray to electrical panels or boxes, walls or end supports
- Furnished in pairs with hardware
- Kit contents: 8 bolts, 8 nuts, 8 lock washers, ⅜" diameter

Box-to-tray plates

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
ABW-4-SSP	Aluminum	4	101.6
ABW-5-SSP		5	127
ABW-6-SSP		6	152.4
ABW-7-SSP		7	177.8

- Provides closure for any tray end
- Packaged with hardware
- Kit contents: 4 bolts, 4 nuts, 4 washers, ⅜" diameter

Closure end plate



Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
ABW-4(*)-CEP	Aluminum	4	101.6	6	152.4
				9	228.6
ABW-5(*)-CEP		5	127	12	304.8
				18	457.2
ABW-6(*)-CEP		6	152.4	24	609.6
				30	762
ABW-7(*)-CEP		7	177.8	36	914.4
				42	1,066.8

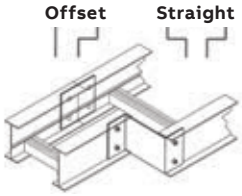
* Insert tray width

Metallic - Aluminum splice plates

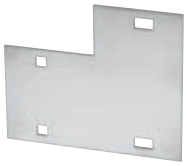
Reducing splice plate and step-down splice plate

- Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction
- Packaged with hardware
- Kit contents: 4 bolts, 4 nuts, 4 washers, ⅜" diameter

Reducing splice plate

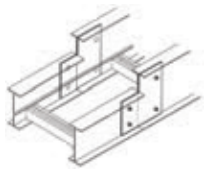
	Cat. No.	Material	Side rail height (in)	Side rail height (mm)
	ABW-4(*)-RSP	Aluminum	4	101.6
	ABW-5(*)-RSP		5	127
	ABW-6(*)-RSP		6	152.4
	ABW-7(*)-RSP		7	177.8

NOTE: (*) For offset reduction: insert width to be reduced. For straight reduction: insert ½ width to be reduced (two required).
Example: ABW-403-RSP = 3" (76.2mm) offset reducer.



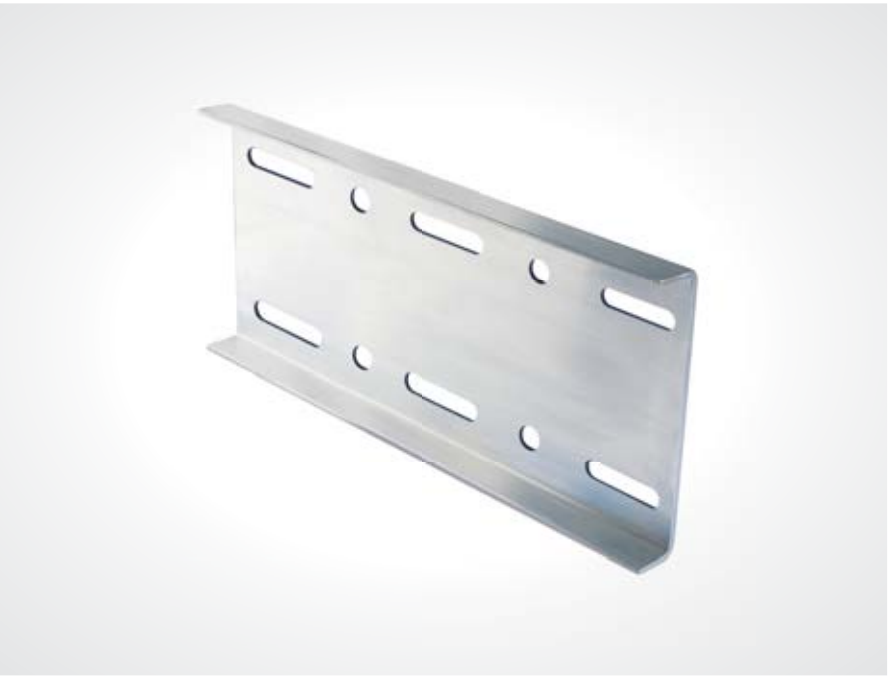
- Connects side rails of different heights
- Kit contents: 4 bolts, 4 nuts, 4 washers, ⅜" diameter

Step-down splice plate

	Cat. No.	Material	Side rail height (in)	Side rail height (mm)
	ABW(*)(**)SDS	Aluminum	4	101.6
			5	127
			6	152.4
			7	177.8

(*) Side rail height 1. (**) Side rail height 2.
NOTE: Side rail height 1 is greater then side rail height 2.

Super-duty splice plate™
For strength, reliability and savings



Super-duty splice plate

	Cat. No.	Kit includes
	ABW6SDP	2 Super-duty splice plates 12 Ribbed-neck carriage bolts 8 Nylon insert locknuts 8 Serrated flanged locknuts 12 Nylon washers (spacers)

Comes complete with all hardware required for either expansion or mid-span splicing.
Hardware is Type 316 stainless steel.

Reduce structural support and installation costs

One splice plate, two solutions
The NEW ultra-robust Super-Duty Splice Plate allows cost-efficient expansion by reducing the need for structural supports. It can also be used for sturdy midspan splicing. Engineers, end users and contractors benefit from significant cost reductions without sacrificing quality or structural integrity.

- Use fewer NEMA-recommended structural supports at expansion joints, significantly reducing material and labor costs
- Unique, reinforced design eliminates the need to drill and install additional hardware on the flange, saving time during installation
- Nylon washers make movement easier and reduce friction
- No lubrication of side rail required during installation or maintenance

Super strength, superior design

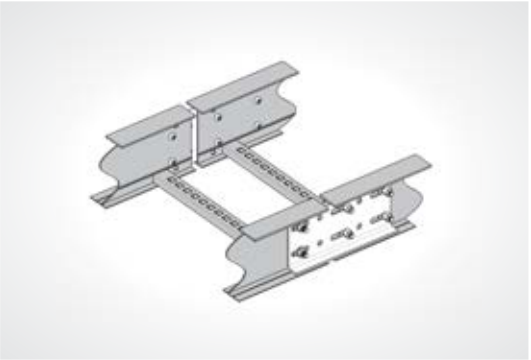
- Extra-wide 13" (330.2mm) high-strength, heat-treated aluminum
- Unique design maximizes rigidity, resistance and overall strength
- Tested and rated for 6" (152.4mm) aluminum side rails,Series AH36-AH66
- Nylon washers make movement easier and reduce friction
- No hardware required for installation on flange
- Allows for true contraction/expansion under full loads
- No lubrication of the side rail required during installation or maintenance
- Plate is pre-drilled for both expansion and mid-span applications
- Supplied with all hardware required for both types of installation

01 Expansion splice

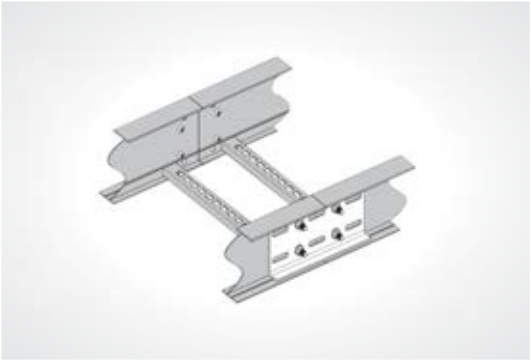
02 Mid-span splice

N.B.: For purposes of illustration, bonding jumper is not shown but is required at expansion joints.

01



02

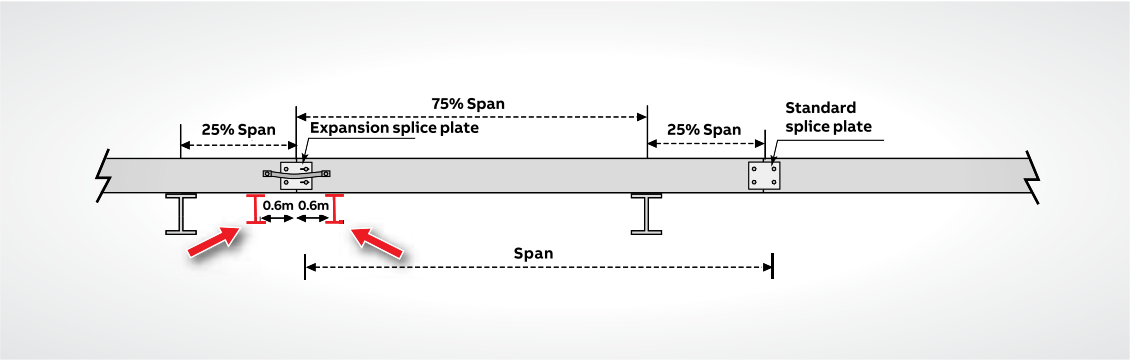


Expansion splicing – eliminate the need for additional supports

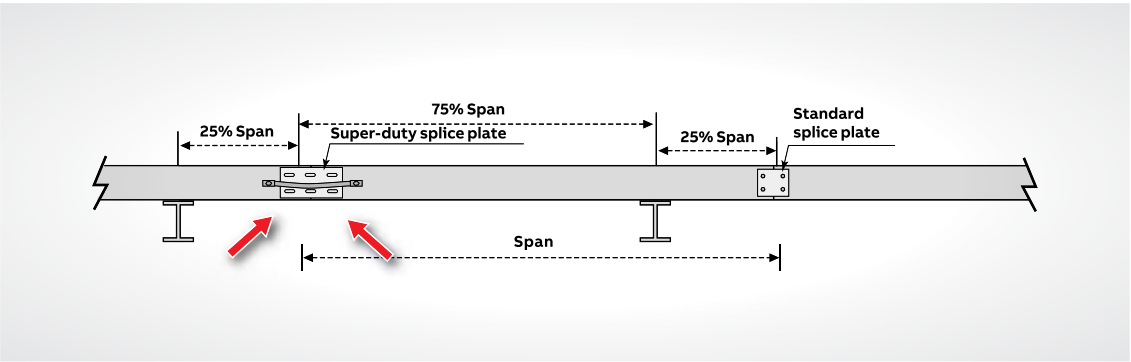
03 NEMA installation with additional supports

04 No additional supports needed with Super-Duty Splice Plate

03



04



Over-support splice adapter
Beam installation

Over-support splice adapter (beam installation)
- Place splices directly over supports
- No additional support required

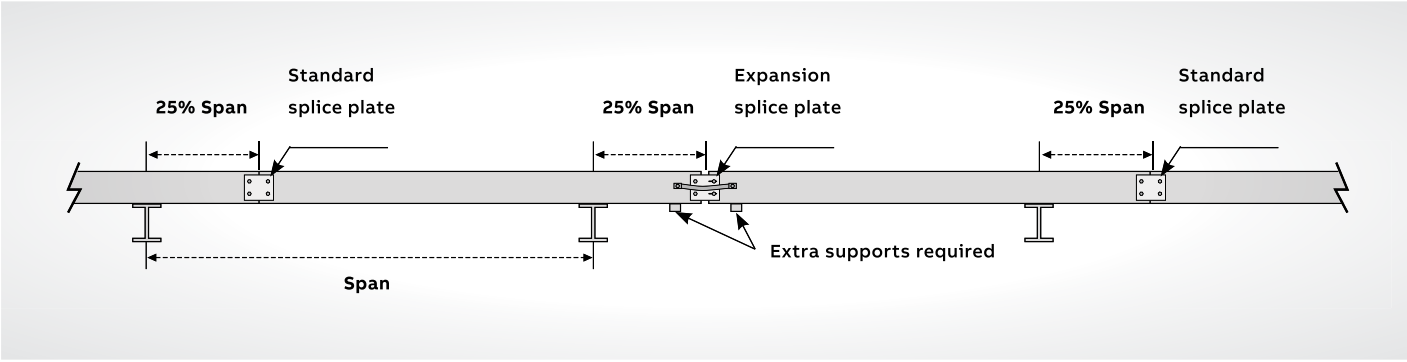
Standard ¼ (25%) span

Cat. No.	Over-support splice adapter Beam installation	Quantity
ABW46-OSS-B	Expansion over support beam 29" (7.37m)	2
	SHWCTC, heavy-duty hold-down clamp	
	HGW-SHC, standard hold-down clamp	
	E142-3/8x100EG, ⅜" – 16 x 1" hex cap screws	
	AC100-3/8EGC, ⅜" strut nut	

T&B Over-support

Cat. No.	Over-support splice adapter Beam installation	Quantity
ABW46-OSS-S	Expansion over support beam 29" (7.37m)	2
	HGW-SHC, standard hold-down clamp clamp	4
	E142-3/8x100EG, ⅜" – 16 x 1" hex cap screws	
	AC100-3/8EGC, ⅜" strut nut	

NOTE: Every expansion joint requires the use of a bonding jumper such as FBD16-1 (16" (406.4mm), 600 A).
NEMA VE2: Splice joints should be designed and placed so as to maximize the rigidity of the cable tray over support.
Splice plates and adapters are part of a system specifically designed for placement directly over supports.



—
01

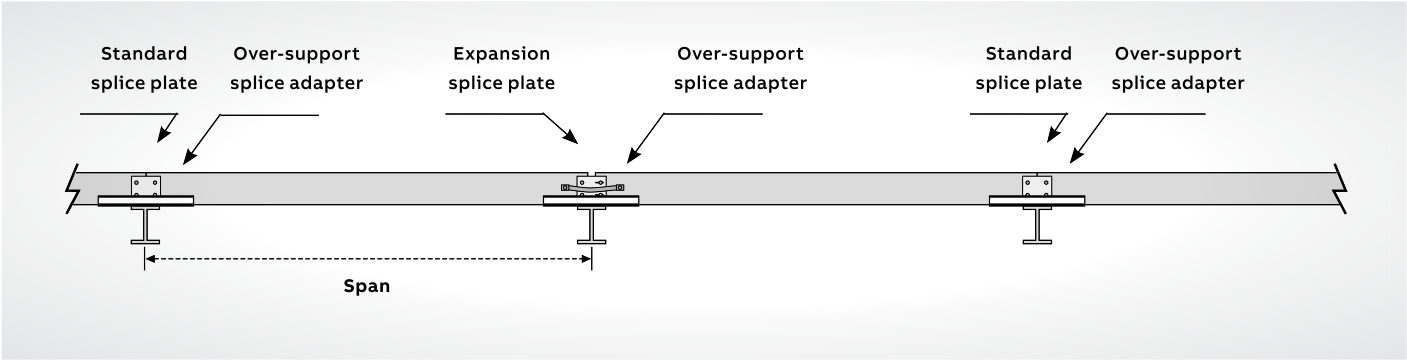
—
01 **Standard ¼ (25%) span**
Typical installation based on NEMA VE2

—
02 **T&B over-support**
Mid-span splice

Standard ¼ span

Typical installation based on NEMA VE2
Supports are placed at ¼ (25%) span. Supports should be located within 2 feet of each side of expansion splice plates.

Cat. No.	Over-support splice adapter Beam installation	Qty
ABW46-OSS-B	Expansion over support beam 29" (736.6mm)	2
	SHWCTC, heavy-duty hold-down clamp	
	HGW-SHC, standard hold-down clamp	
	E142-3/8x100EG, ⅜" – 16 x 1" hex cap screws	
	AC100-3/8EGC, ⅜" strut nut	



—
02

T&B over-support

Installation method
Supports are placed right under the joints of the installation. The splice adapter allows a wider distribution of the support, therefore minimizing the stress and deflection of the assembly.

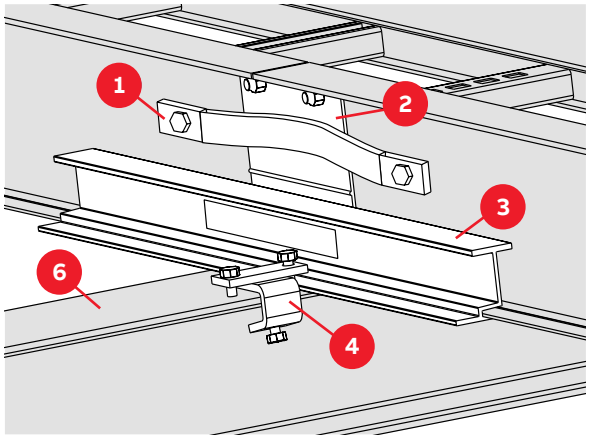
Cat. No.	Over-support splice adapter Strut installation	Qty
ABW46-OSS-B	Expansion over support beam 29" (736.6mm)	2
	HGW-SHC, standard hold-down clamp	4
	E142-3/8x100EG, ⅜" – 16 x 1" hex cap screws	
	AC100-3/8EGC, ⅜" strut nut	

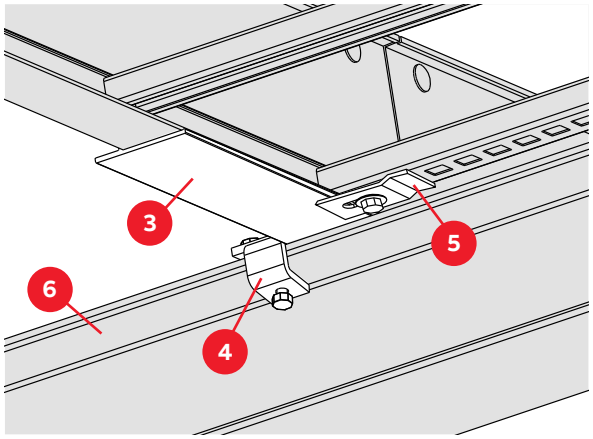
NOTE: Every expansion joint requires the use of a bonding jumper such as FBD16-1 (16", 600 A).

Over-support splice adapter
Expansion joints

03 Bottom view
04 Inside view

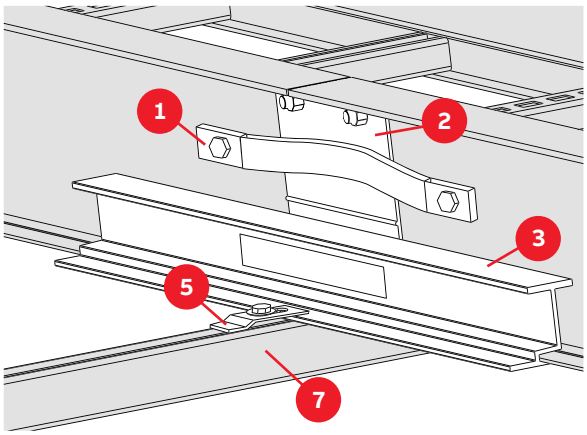
Beam installation – ABW46-OSS-B

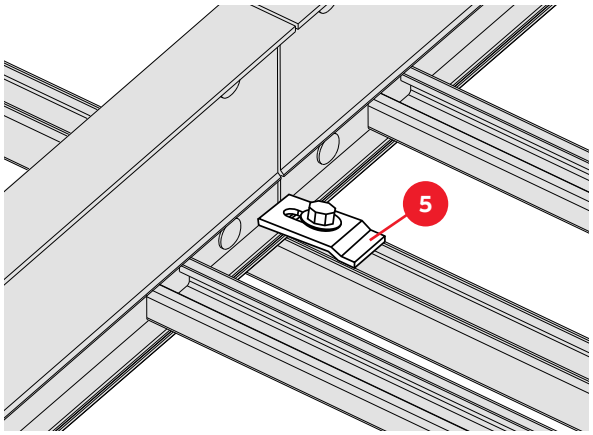




03

Beam installation – ABW46-OSS-B





04

Installation components
1) Bonding jumper (required on expansion joint only)
2) Splice plate
3) Over-support splice adapter
4) Beam clamp
5) Hold-down clamp (required on hold-down joint only)
6) Structural beam
7) Strut

Cable tray installation
- For gap setting at expansion joint, refer to NEMA chart on the following page.
- Every over-support joint must have a pair of oversupport splice adapters (both standard splices and expansion splices).

01 Expansion plate gap chart

NOTE: Every expansion joint requires the use of a bonding jumper such as FBD16-1 (16", 600 amps)

ABW46-OSS-B

Over-support splice adapter – Beam installation

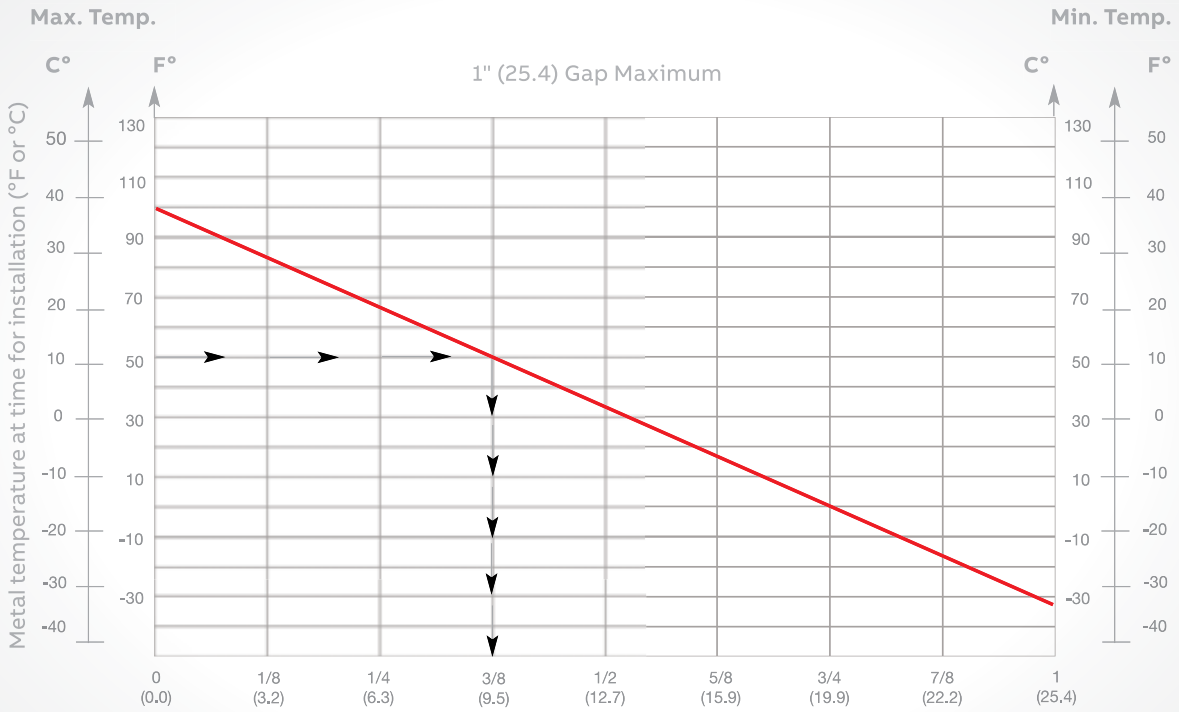
- Expansion over support beam 29" (736.6mm)
- SHW-CTC, Heavy-duty hold-down clamp (complete with mounting hardware)
- SHW-HEC, Standard hold-down clamp
- E142-3/8x100EG, ⅜"–16 x 1" hex cap screws
- AC100-3/8EGC, ⅜" strut nut

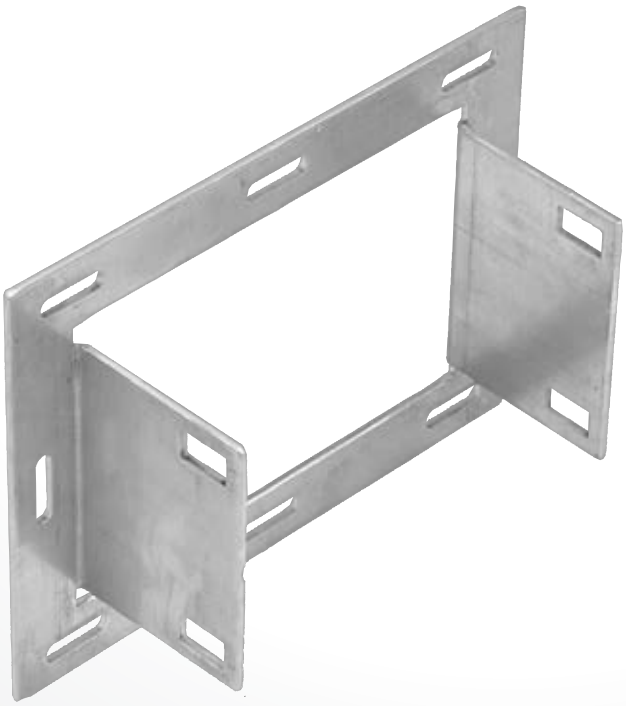
ABW46-OSS-S

Over-support splice adapter – Strut installation

- Expansion over support beam 29" (736.6mm)
- SHW-HEC, Standard hold-down clamp
- E142-3/8x100EG, ⅜"–16 x 1" hex cap screws
- AC100-3/8EGC, ⅜" strut nut

01



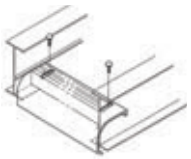


Metallic - Aluminum cable protection

Drop out and wall penetration sleeve

- Designed to provide a smooth radius surface at any position on the tray or trough bottom
- Drop outs are easily attached using hardware provided
- Standard radius 4" (101.6mm)

Drop out

	Cat. No.	Description	Tray width (in)	Tray width (mm)
	ABW(*)DO	For ladder and ventilated tray Aluminum	6	152.4
			9	228.6
			12	304.8
			18	457.2
			24	609.6
			30	127
			36	914.4
			42	1,006.8

(*) Insert side rail height.

- Designed to pass through walls and fire walls
- Hardware included
- IMPORTANT: Not fire rated
- Fire stop not included
- Sold with cover

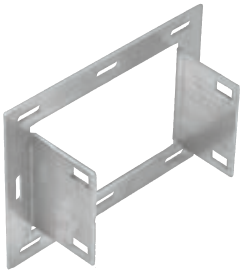
Wall penetration sleeve

Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
ABW(*)(**)WPS	Aluminum	4	101.6	6	152.4
				9	228.6
		5	127	12	304.8
				18	457.2
		6	152.4	24	609.6
				30	127
		7	177.8	36	914.4
				42	1,006.8

(*) Insert side rail height. (**) Insert tray width.

Metallic - Aluminum cable protection

Frame-type tray and expansion pad



- Designed to secure tray to electrical enclosures and panels
- Hardware included

Frame-type tray to box plate

Cat. No	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
ABW(*)(**)FBP	Aluminum	4	101.6	6	152.4
				9	228.6
		5	127	12	304.8
				18	457.2
		6	152.4	24	609.6
				30	762
		7	177.8	36	914.4
				42	1,066.8

(*) Insert side rail height. (**) Insert tray width.

Nylon expansion pad

	Cat. No.	Material
	ABW-NSP	Natural nylon

(*) Insert side rail height. (**) Insert tray width.
NOTE: Allows for thermal expansion and contraction of cable trays over supports.

Metallic - Aluminum barrier strips

Barrier strips, vertical bend barriers and strip splice

SBH

SB

- Aluminum barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware.
- 72" (1,83m) barriers are flexible for use with horizontal fittings

Barrier strips

Cat. No.	Designed for side rail height (in)	Designed for side rail height (mm)	Length (in)	Length (m)
ABW-4-SBH-72	4	101.6	72	1.83
ABW-5-SBH-72	5	127		
ABW-6-SBH-72	6	152.4		
ABW-7-SBH-72	7	177.8 m		
ABW-4-SB-(*)	4	101.6	144	3.65
ABW-5-SB-(*)	5	127		
ABW-6-SB-(*)	6	152.5		
ABW-7-SB-(*)	7	177.8		

NOTE: 72" (1.83m) barriers provided with 3 SPW10SCR. 144" (3.65m) barriers provided with 6 SPW10SCR.
(*) Insert length.

Inside/outside vertical bend barriers

Inside bend Cat. No.	Outside bend Cat. No.	Designed for side rail height (in)	Designed for side rail height (mm)
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	4	101.6
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	5	127
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	6	152.4
AUW(*)VIB-(**)-(+)	AUW(*)VOB-(**)-(+)	7	177.8
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	4	101.6
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	5	127
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	6	152.4
AHW(*)VIB-(**)-(+)	AHW(*)VOB-(**)-(+)	7	177.8

(*) Insert side rail height (**) Insert bend angle (+) Insert bend radius.

Barrier strip splice

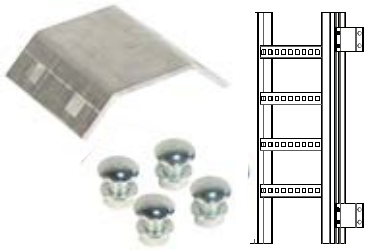
Cat. No.	Material
ABWBSS	Plastic

NOTE: Alignment splice for joining connecting barrier strips.

Metallic - Aluminum clamps and hardware

Hold down clamps and tapping screws

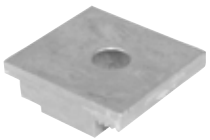
Hold-down clamp



Cat. No.	Type	Material	Design load (lb)	Design load (kg)
ABW-HDCS	Single	Aluminum	600 lb / pair	272.2 kg / pair
ABW-HDCD	Double		1000 lb / pair	453.6 kg / pair

NOTE: For vertical applications.

Hold-down clamp



Cat. No.	Material
ABW-HEC	Aluminum
ABW-HEC-HDW	

NOTE: Hardware supplied with one bolt and one springless strut nut, 0.95mm diameter.

Self-drilling tapping screw

Cat. No.	Material	Description
SPW-1/4-CB	Zinc-plated steel	¼" carriage bolt
SPW-3/8-CB		⅜" carriage bolt
SPW-1/4-HN		¼" hex. nut
SPW-3/8-HN		⅜" hex. nut
SPW-3/8-HWK		Zinc-plated steel hardware kit
SSW-3/8-CB	316 Stainless	⅜" carriage bolt
SSW-3/8-HN		⅜" hex. nut
SSW-3/8-HWK		316 Stainless steel hardware kit

Self-drilling tapping screw

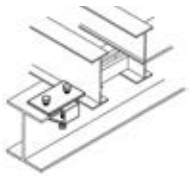
Cat. No.	Material	Description
SPW-10-SCR	Zinc-plated steel	Self-drilling tapping screw
SSW-10-SCR	Stainless steel	

Metallic - Aluminum clamps and hardware

Cable tray guide and vertical tray hanger

Cable tray guide

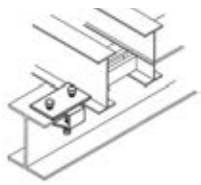
- Expansion guide for single or double runs of cable tray
- No need to field drill the channel or I-beam



Cat. No.	Material
SPW-CTG	Zinc-plated steel
SHW-CTG	Hot-dipped galvanized steel

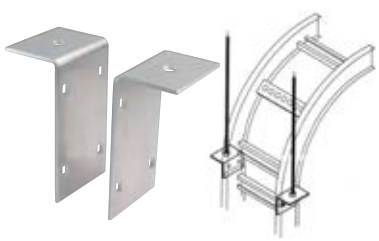
Cable tray guide

- Clamps for single run of cable tray
- No need to field drill the channel or I-beam



Cat. No.	Material
SPW-CTG	Zinc-plated steel
SHW-CTG	Hot-dipped galvanized steel

Vertical tray hanger



Cat. No.	Material	Side rail height (in)	Side rail height (mm)
ABW(*)VTH	Aluminum	4	101.6
		5	127
		6	152.4
		7	177.8

* Insert side rail height

Metallic - Steel
Straight lengths - Tray bottom

01 Ladder
02 Ventillated
03 Solid trough

Ladder, ventilated and solid trough

Ladder
Formed side rails are welded to 1⅝" (41.3mm) wide rungs to provide maximum rigidity and strength. Rung design includes exclusive Ty-Rap® cable tie slots on 1" (25.4mm) centers.

Ventilated
A fabricated structure consisting of integral or separate longitudinal rails and a bottom having openings sufficient for the passage of air and utilizing 75% or less of the plane area of the surface to support cables.

The maximum open spacings between cable support surfaces of transverse elements do not exceed 102mm (4") in the direction parallel to the tray side rails (rung to rung).

Solid trough
Solid sheet welded to steel side rails below rungs. This design offers added cable protection.

01

02

03

Straight section number selection

How to create catalog numbers
Thomas & Betts has created a numbering system based on the order of selection criteria. For example, the first selection issue is the environment to which the cable tray will be subjected. This selection will lead to the best material for your application. For complete details on the cable tray selection process, see pages 22-51 in the technical section.

Methods
1. Select the material best suited to your environment. Refer to technical section page 24-29.
2. Determine the tray series using the NEMA/CSA load/span designations page 30-38, and sizing cable tray page 40.
3. Select nominal depth and width of tray based on cable loading. See “Sizing Cable Tray” pages 41-43.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters or inches.

SH **3** - **6** - **24** - **L09** - **144**

Material prefix	
Pregalvanized	**SP**
Hot-dipped galvanized after fabrication	**SH**
Stainless steel 316	**SS**

Series		Side rail height
Series 1	**1**	3⅝" (92.1mm)
Series 1 Series 3	**1** **3**	4" (101.6mm)
Series 2 Series 4 Series 5	**2** **4** **5**	5" (127mm)
Series 1 Series 3 Series 4	**1** **3** **4**	6" (152.4mm)
Series 3	**3**	7" (177.8mm)

Width			
6"	(152.4mm)		**06**
9"	(228.6mm)		**09**
12"	(304.8mm)		**12**
18"	(457.2mm)		**18**
24"	(609.6mm)		**24**
30"	(762mm)		**30**
36"	(914.4mm)		**36**
42"	(1,066.8mm)		**42**

Bottom type	
6" (152.4mm) rung spacing	**L06**
9" (228.6mm) rung spacing	**L09**
12" (304.8mm) rung spacing	**L12**
Ventilated**	**V**
Solid trough	**S**

Length	
12 ft	**144**
24 ft	**288**
3m	**3**
6m	**6**

Key		
**	=	Series 1-3 and 1-4 are not available in 6 meter and 288" (7.3m) lengths
***	=	For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages 222 - 261 of this catalog

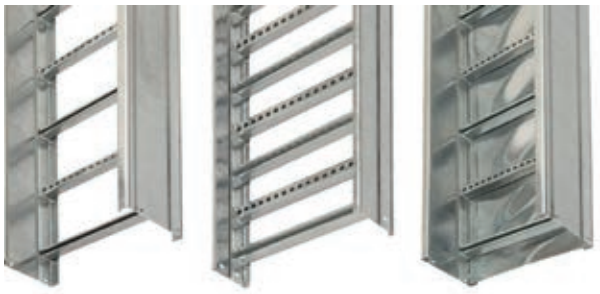
NOTE: The following special options are available.
To order, add the indicated suffix to the very end of the catalog number:

FO	=	Flange out	**UM**	=	Marine rung holes up
G	=	Ground holes (specify locations and size)	**RU**	=	Rung with square holes on top
H	=	Stainless steel type 316 hardware nuts and bolts	**FR**	=	Flat rung
MR	=	Marine rung alternated			

Contact your ABB representative for additional options.

Metallic - Steel straight lengths

3⅝" Straight sections / Series 1-3 - Ladder, ventilated and solid trough



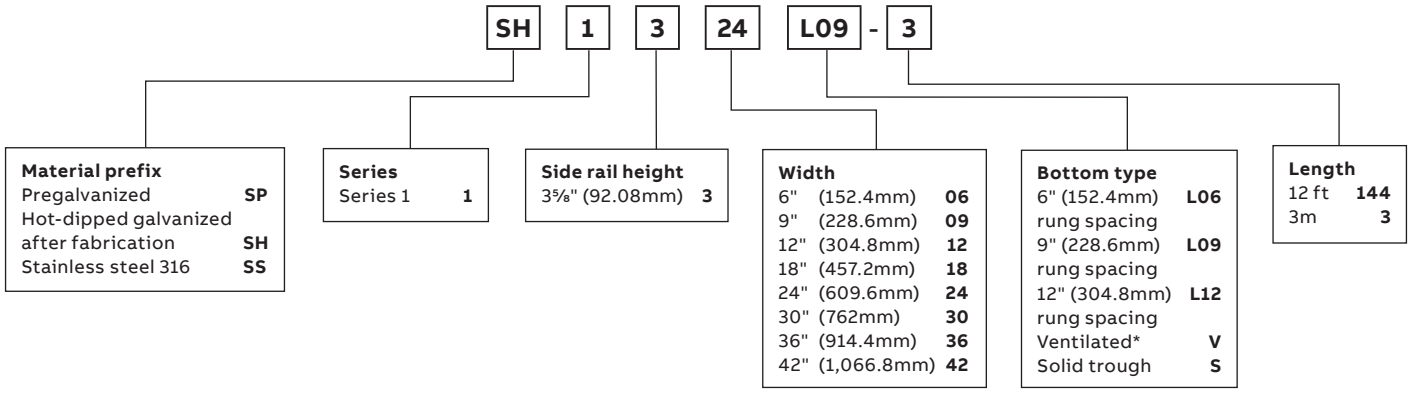
Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

3⅝" Straight sections / Series 1-3 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)			
Series		**NEMA**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**	**12' (3.66m)**
SP1-3 SH1-3 SS1-3	**Load (lb)/ft)**	12A	200	112.5	72	50
	Load (kg)/m)		297.63	167.42	107.15	74.41
	Deflection (in)		0.242	0.43	0.672	0.967
	Deflection (mm)		6.15	10.92	17.07	24.56
	K factor		0.0012	0.0038	0.0093	0.019

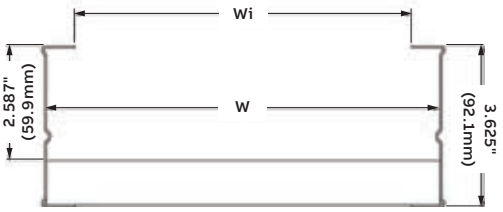
Straight section number selection



* For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages 222 - 261 of this catalog.

For fittings, consult pages 174 - 201.

Dimensions

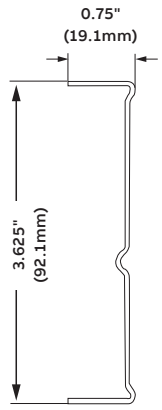


	SP1-3, SH1-3, SS1-3			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	8.86	225.04
	9	228.6	11.86	301.24
	12	304.8	14.86	377.44
	18	457.2	20.86	529.84
	24	609.6	26.86	682.24
	30	762	32.86	834.64
	36	914.4	38.86	987.04
	42	1066.8	44.86	1139.44

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

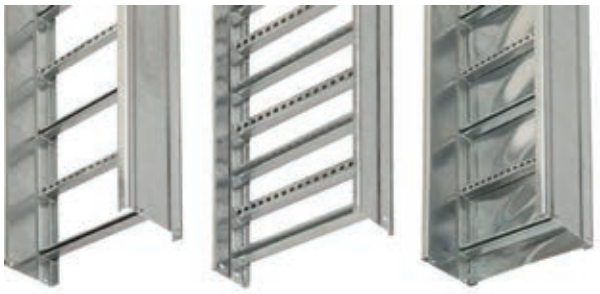
Load ratings: 1.5 safety factor



			Classifications			
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®	ABS
	SP1-3 SH1-3 SS1-3	Ix = 0.804"⁴ (33.7cm⁴) Sx = 0.444"³ (7.28cm³) Area = 0.488"² (3.15cm²)	12A	C/3 m	UL cross sectional area: 0.40"² (2.58cm²)	Stainless steel only

Metallic - Steel straight lengths

4" Straight sections / Series 1-4, 3-4 - Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

4" Straight sections / Series 1-4, 3-4 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
SP1-4 SH1-4 SS1-4	Load (lb)/ft)	12C	224	224	151	105	–	–	–	–
	Load (kg)/m)		333.35	333.35	224.71	156.26	–	–	–	–
	Deflection (in)		0.110	0.349	0.574	0.827	–	–	–	–
	Deflection (mm)		2.79	8.86	14.58	21.01	–	–	–	–
	K factor		0.0005	0.0016	0.0038	0.0079	–	–	–	–
SP3-4 SH3-4 SS3-4	Load (lb)/ft)	20A	224	224	200	139	102	78	62	50
	Load (kg)/m)		333.35	333.35	297.63	206.85	151.79	116.08	92.27	74.41
	Deflection (in)		0.098	0.309	0.674	0.971	1.332	1.727	2.185	2.698
	Deflection (mm)		2.49	7.85	17.12	24.66	33.83	43.87	55.5	68.53
	K factor		0.0004	0.0014	0.0034	0.0070	0.0130	0.022	0.035	0.054

Straight section number selection

SH **3** **4** **24** **L09** **144**

Material prefix	
Pregalvanized	**SP**
Hot-dipped galvanized after fabrication	**SH**
Stainless steel 316	**SS**

Series	
Series 1	**1**
Series 3	**3**

Side rail height	
4" (101.6mm)	**4**

Width	
6" (152.4mm)	**06**
9" (228.6mm)	**09**
12" (304.8mm)	**12**
18" (457.2mm)	**18**
24" (609.6mm)	**24**
30" (762mm)	**30**
36" (914.4mm)	**36**
42" (1,066.8mm)	**42**

Bottom type	
6" (152.4mm) rung spacing	**L06**
9" (228.6mm) rung spacing	**L09**
12" (304.8mm) rung spacing	**L12**
Ventilated**	**V**
Solid trough	**S**

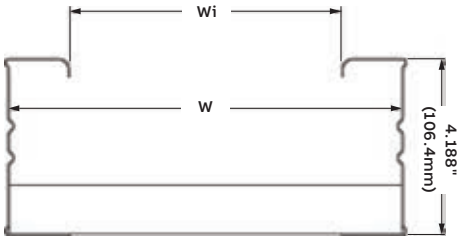
Length	
12 ft	**144**
24 ft	**288**
3m	**3**
6m	**6**

* Series 1-4 not available in 6 meter or 288" (7,315.2mm) lengths.

** For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages 222 - 261 of this catalog.

For fittings, consult pages 174 - 201.

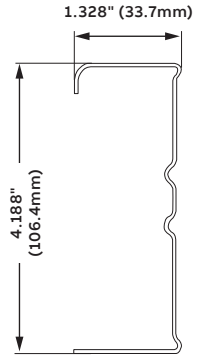
—
Dimensions



	SP1-4, SH1-4, SS1-4, SP3-4, SH3-4, SS3-4			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	3.34	84.84
	9	228.6	6.34	161.04
	12	304.8	9.34	237.24
	18	457.2	15.34	389.64
	24	609.6	21.34	542.04
	30	762	27.34	694.44
	36	914.4	33.34	846.84
	42	1066.8	39.34	999.24

Technical specifications
Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

—
Load ratings: 1.5 safety factor



		Classifications			
Series	Side rail design factors 1 pair	NEMA	CSA	UL®	ABS
SP1-4 SH1-4 SS1-4	Ix = 1.974"⁴ (82.16cm⁴) Sx = 0.788"³ (12.91cm³) Area = 0.682"² (4.40cm²)	12C	D/3 m	UL cross sectional area: 0.70"² (4.52cm²)	Stainless steel only
SP3-4 SH3-4 SS3-4	Ix = 2.224"⁴ (92.57cm⁴) Sx = 1.022"³ (16.75cm³) Area = 1.080"² (6.97cm³)	20A	D/6 m	UL cross sectional area: 0.70"² (4.52cm²)	Stainless steel only

Metallic - Steel straight lengths

5" Straight sections / Series 2-5, 4-5, 5-5 - Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

5" Straight sections / Series 2-5, 4-5, 5-5 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
SP2-5 SH2-5 SS2-5	Load (lb)/ft)	20A	224	224	200	139	102	78	62	50
	Load (kg)/m)		333.35	333.35	297.63	206.85	151.79	116.08	92.27	74.41
	Deflection (in)		0.075	0.238	0.519	0.747	1.017	1.329	1.682	2.076
	Deflection (mm)		1.91	6.05	13.18	18.97	25.83	33.76	42.72	52.73
	K factor		0.0003	0.0011	0.0026	0.0054	0.0100	0.017	0.0271	0.042
SP4-5 SH4-5 SS4-5	Load (lb)/ft)	20B	224	224	224	208	153	117	93	75
	Load (kg)/m)		333.35	333.35	333.35	309.54	227.69	174.11	138.40	111.61
	Deflection (in)		0.058	0.184	0.448	0.864	1.176	1.536	1.944	2.4
	Deflection (mm)		1.47	4.67	11.38	21.95	29.87	39.01	49.38	60.96
	K factor		0.0003	0.0008	0.0020	0.0041	0.0077	0.0131	0.0211	0.032
SP5-5 SH5-5 SS5-5	Load (lb)/ft)	20C	–	224	224	224	204	156	123	100
	Load (kg)/m)		–	333.35	333.35	333.35	303.58	232.15	183.04	148.82
	Deflection (in)		–	0.148	0.362	0.752	1.268	1.657	2.097	2.589
	Deflection (mm)		–	3.76	9.19	19.10	32.21	42.09	53.26	65.76
	K factor		–	0.0007	0.0016	0.0034	0.0062	0.0106	0.0169	0.0259

Straight section number selection

SH **2** **5** **24** **L09** **144**

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 2 **2**
Series 4 **4**
Series 5 **5**

Side rail height
5" (127mm) **5**

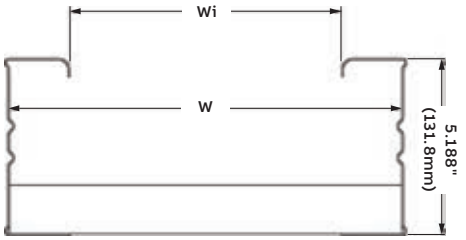
Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated** **V**
Solid trough **S**

Length
12 ft **144**
24 ft **288**
3m **3**
6m **6**

For fittings, consult pages 174 - 201.

Dimensions

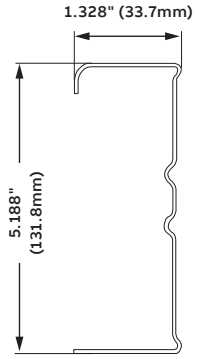


	SP2-5, SH2-5, SS2-5, SP4-5, SH4-5, SS4-5, SP5-5, SH5-5, SS5-5			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	3.34	84.84
	9	228.6	6.34	161.04
	12	304.8	9.34	237.24
	18	457.2	15.34	389.64
	24	609.6	21.34	542.04
	30	762	27.34	694.44
	36	914.4	33.34	846.84
	42	1066.8	39.34	999.24

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

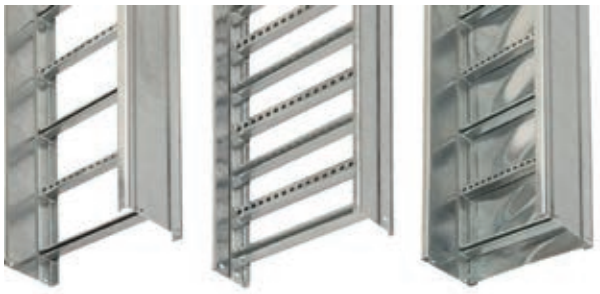
Load ratings: 1.5 safety factor



			Classifications			
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®	ABS
	SP1-4 SH1-4 SS1-4	Ix = 2.89"⁴ (120.29cm⁴) Sx = 1.09"³ (17.86cm³) Area = 0.778"² (5.02cm²)	12C	D/6 m	UL cross sectional area: 0.70"² (4.52cm²)	Stainless steel only
	SP3-4 SH3-4 SS3-4	Ix = 3.75"⁴ (156.09cm⁴) Sx = 1.40"³ (22.94cm³) Area = 1.018"² (6.57cm³)	20A	E/6 m	UL cross sectional area: 1.00"² (6.45cm²)	Stainless steel only
	SP3-4 SH3-4 SS3-4	Ix = 4.635"⁴ (192.92cm⁴) Sx = 1.732"³ (28.38cm³) Area = 1.24"² (8.00cm³)	20A	Exceeds E/6 m	UL cross sectional area: 1.00"² (6.45cm²)	Stainless steel only

Metallic - Steel straight lengths

6" Straight sections / Series 1-6, 3-6, 4-6 - Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

6" Straight sections / Series 1-6, 3-6, 4-6 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
SP1-6 SH1-6 SS1-6	Load (lb)/ft)	20A	224	224	200	139	102	78	62	50
	Load (kg)/m)		333.35	333.35	297.63	206.85	151.79	116.08	92.27	74.41
	Deflection (in)		0.049	0.155	0.338	0.486	0.662	0.865	1.095	1.351
	Deflection (mm)		1.24	3.94	8.59	12.34	16.81	21.97	27.81	34.32
	K factor		0.0002	0.0007	0.0017	0.0036	0.0065	0.0111	0.0177	0.0270
SP3-6 SH3-6 SS3-6	Load (lb)/ft)	20B	224	224	224	208	153	117	93	75
	Load (kg)/m)		333.35	333.35	333.35	309.54	227.69	174.11	138.4	111.61
	Deflection (in)		0.041	0.128	0.313	0.603	0.821	1.072	1.357	1.675
	Deflection (mm)		1.04	3.25	7.95	15.32	20.85	27.23	34.47	42.55
	K factor		0.0002	0.0006	0.0014	0.0029	0.0055	0.0092	0.0146	0.0223
SP4-6 SH4-6 SS4-6	Load (lb)/ft)	20C	–	224	224	224	224	182	144	117
	Load (kg)/m)		–	333.35	333.35	333.35	333.35	270.85	214.30	174.11
	Deflection (in)		–	0.096	0.234	0.486	0.900	1.247	1.579	1.949
	Deflection (mm)		–	2.44	5.94	12.34	22.86	31.67	40.11	49.5
	K factor		–	0.0004	0.0011	0.0022	0.0041	0.0069	0.011	0.0167

Straight section number selection

SH **3** **6** **24** **L12** **144**

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 1 **1**
Series 3 **3**
Series 4 **4**

Side rail height
6" (152.4mm) **6**

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

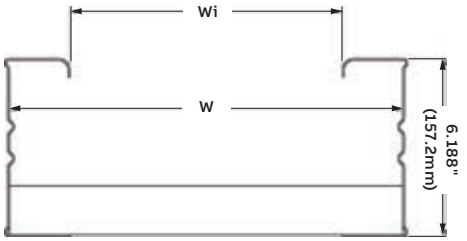
Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated** **V**
Solid trough **S**

Length
12 ft **144**
24 ft **288**
3m **3**
6m **6**

** For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages 222 - 261 of this catalog.

For fittings, consult pages 174 - 201.

Dimensions

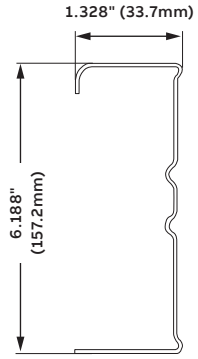


	SP1-6, SH1-6, SS1-6, SP3-6, SH3-6, SS3-6, SP4-6, SH4-6, SS4-6			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	3.34	84.84
	9	228.6	6.34	161.04
	12	304.8	9.34	237.24
	18	457.2	15.34	389.64
	24	609.6	21.34	542.04
	30	762	27.34	694.44
	36	914.4	33.34	846.84
	42	1066.8	39.34	999.24

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

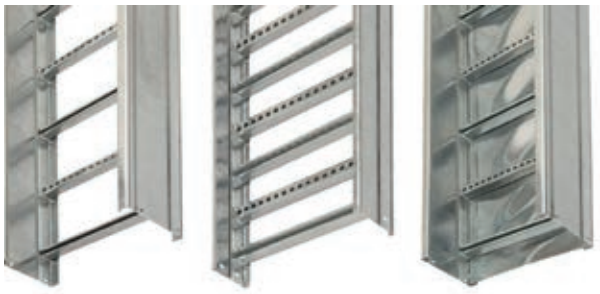
Load ratings: 1.5 safety factor



			Classifications			
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®	ABS
	SP1-4 SH1-4 SS1-4	Ix = 4.44"⁴ (184.81cm⁴) Sx = 1.39"³ (22.78cm³) Area = 0.874"² (5.64cm²)	12C	D/6 m	UL cross sectional area: 0.70"² (4.52cm²)	Stainless steel only
	SP3-4 SH3-4 SS3-4	Ix = 5.373"⁴ (223.64cm⁴) Sx = 1.70"³ (27.86cm³) Area = 1.40"² (9.03cm³)	20A	E/6 m	UL cross sectional area: 1.00"² (6.45cm²)	Stainless steel only
	SP3-4 SH3-4 SS3-4	Ix = 7.173"⁴ (298.56cm⁴) Sx = 2.250"³ (36.87cm³) Area = 1.40"² (9.03cm³)	20A	Exceeds E/6 m	UL cross sectional area: 1.00"² (6.45cm²)	Stainless steel only

Metallic - Steel straight lengths

7" Straight sections / Series 3-7 - Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 42" (1,066.8mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

7" Straight sections / Series 3-7 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)							
Series		**NEMA**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**	**12' (3.66m)**	**14' (4.27m)**	**16' (4.88m)**	**18' (5.49m)**	**20' (6.10m)**
SP3-7 SH3-7 SS3-7	**Load (lb)/ft)**	20C+	–	224	224	224	224	188	148	120
	Load (kg)/m)		–	333.35	333.35	333.35	333.35	279.77	220.25	178.58
	Deflection (in)		–	0.066	0.161	0.335	0.62	0.885	1.12	1.383
	Deflection (mm)		–	1.68	4.09	8.51	15.75	22.48	28.45	35.13
	K factor		–	0.0003	0.0007	0.0015	0.0028	0.0047	0.0076	0.0115

Straight section number selection

SH **3** **7** **24** **L09** - **288**

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 3 **3**

Side rail height
7" (177.8mm) **7**

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**
42" (1,066.8mm) **42**

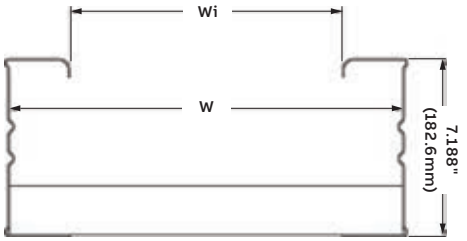
Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated** **V**
Solid trough **S**

Length
12 ft **144**
3m **3**

** For load CSA Class C/3M, NEMA 8C or less, please see an alternative ventilated series of cable tray called One-Piece found on pages 222 - 261 of this catalog.

For fittings, consult pages 174 - 201.

Dimensions

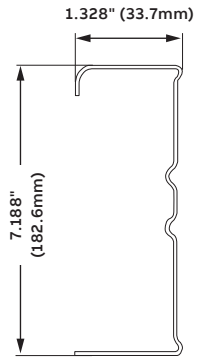


			SP3-7, SH3-7, SS3-7	
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	3.34	84.84
	9	228.6	6.34	161.04
	12	304.8	9.34	237.24
	18	457.2	15.34	389.64
	24	609.6	21.34	542.04
	30	762	27.34	694.44
	36	914.4	33.34	846.84
	42	1066.8	39.34	999.24

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

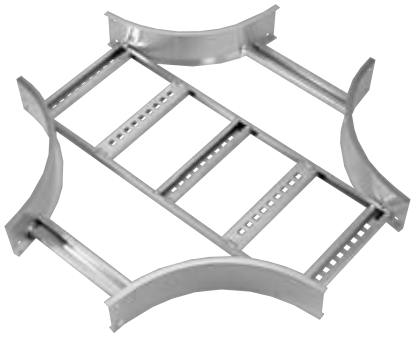


			Classifications			
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®	ABS
	SP1-4 SH1-4 SS1-4	Ix = 10.411"⁴ (433.34cm⁴) Sx = 1.39"³ (22.78cm³) Area = 1.54"² (9.94cm²)	Exceeds 12C	Exceeds E/6 m	UL cross sectional area: 1.50"² (9.68cm²)	Stainless steel only

Metallic - Steel
Horizontal fittings

—
01 H-style 90°
horizontal bend
—
02 H-style horizontal cross
—
03 H-style C90°
vertical bend

—
01



—
02

—
03

Horizontal fittings selection

Fittings in a cable tray system are required to change cable routing direction and to join straight sections and other fittings.

SHF 6 - 24 - L - VO - 90 - 24

Material prefix	
Pregalvanized	**SPF**
Hot-dipped galvanized after fabrication	**SHF**
Stainless steel 316	**SSF**

Side rail height	
4" (101.6mm)	**4**
5" (127mm)	**5**
6" (152.4mm)	**6**
7" (177.8mm)	**7**

Width		
6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Bottom type	
Ladder*	**L**
Ventilated***	**V**
Solid trough****	**S**

Fitting type	
Horizontal bend	**HB**
Horizontal tee	**HT**
Horizontal cross	**HX**
Vertical inside bend	**VI**
Vertical outside bend	**VO**
Vertical tee down	**VTD**
Vertical tee up	**VTU**
Horizontal wye right	**HYR**
Horizontal wye left	**HYL**
Horizontal reducing tee	**RT**
Horizontal expanding tee	**ET**
Horizontal expand cross	**EX**
Horizontal left reducer	**HLR**
Horizontal straight reducer	**HSR**
Horizontal right reducer	**HRR**
Cable support fitting	**CS**

Angle**	
30°	**30**
30°	**45**
30°	**60**
30°	**90**

Nominal radius	
12" (304.8mm)	**12**
24" (609.6mm)	**24**
36" (914.4mm)	**36**
48" (1,219.2mm)	**48**

Key

† = For HB, VI, VO fitting types only

* = Manufactured with 9" (228.6mm) rung spacing measured at the center line of fitting

*** = Manufactured with 4" (101.6mm) edge to edge rung spacing measured at the center line of fitting

**** = Manufactured with flat sheet inserted under rungs with 9" (228.6mm) rung spacing measured at the center line of fitting

NOTE: The following special options are available.
To order, add the indicated suffix to the very end of the catalog number:

FO = Flange out

G = Ground holes (specify locations and size)

H = Stainless steel type 316 hardware nuts and bolts

MR = Marine rung alternated

UM = Marine rung holes up

RU = Rung with square holes on top

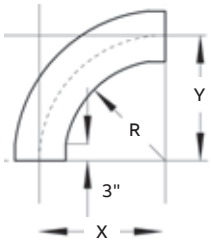
FR = Flat rung

Contact your ABB representative for additional options.

Metallic - Steel fittings

90°/60° Horizontal bend fittings

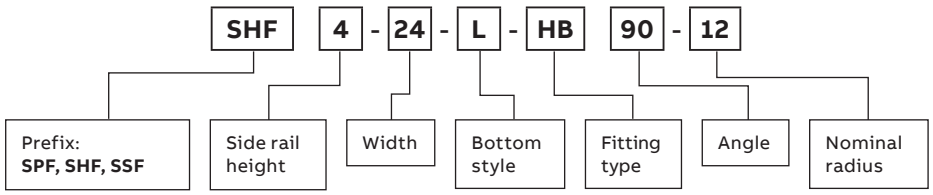
90° Horizontal bend



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HB90-12	15	381.00	15	381.00
		9	228.6	Prefix(†)-09-(*)-HB90-12	16½	419.10	16½	419.10
		12	304.8	Prefix(†)-12-(*)-HB90-12	18	457.20	18	457.20
		18	457.2	Prefix(†)-18-(*)-HB90-12	21	533.40	21	533.40
		24	609.6	Prefix(†)-24-(*)-HB90-12	24	609.60	24	609.60
		30	762	Prefix(†)-30-(*)-HB90-12	27	685.80	27	685.80
		36	914.4	Prefix(†)-36-(*)-HB90-12	30	762.00	30	762.00
		42	1,066.8	Prefix(†)-42-(*)-HB90-12	33	838.20	33	838.20
24	609.6	6	152.4	Prefix(†)-06-(*)-HB90-24	27	685.80	27	685.80
		9	228.6	Prefix(†)-09-(*)-HB90-24	28½	723.90	28½	723.90
		12	304.8	Prefix(†)-12-(*)-HB90-24	30	762.00	30	762.00
		18	457.2	Prefix(†)-18-(*)-HB90-24	33	838.20	33	838.20
		24	609.6	Prefix(†)-24-(*)-HB90-24	36	914.40	36	914.40
		30	762	Prefix(†)-30-(*)-HB90-24	39	990.60	39	990.60
		36	914.4	Prefix(†)-36-(*)-HB90-24	42	1066.80	42	1066.80
		42	1,066.8	Prefix(†)-42-(*)-HB90-24	45	1143.00	45	1143.00
36	914.4	6	152.4	Prefix(†)-06-(*)-HB90-36	39	990.60	39	990.60
		9	228.6	Prefix(†)-09-(*)-HB90-36	40½	1028.70	40½	1028.70
		12	304.8	Prefix(†)-12-(*)-HB90-36	42	1066.80	42	1066.80
		18	457.2	Prefix(†)-18-(*)-HB90-36	45	1143.00	45	1143.00
		24	609.6	Prefix(†)-24-(*)-HB90-36	48	1219.20	48	1219.20
		30	762	Prefix(†)-30-(*)-HB90-36	51	1295.40	51	1295.40
		36	914.4	Prefix(†)-36-(*)-HB90-36	54	1371.60	54	1371.60
		42	1,066.8	Prefix(†)-42-(*)-HB90-36	57	1447.80	57	1447.80
48	1,219.2	6	152.4	Prefix(†)-06-(*)-HB90-48	51	1295.40	51	1295.40
		9	228.6	Prefix(†)-09-(*)-HB90-48	52½	1333.50	52½	1333.50
		12	304.8	Prefix(†)-12-(*)-HB90-48	54	1371.60	54	1371.60
		18	457.2	Prefix(†)-18-(*)-HB90-48	57	1447.80	57	1447.80
		24	609.6	Prefix(†)-24-(*)-HB90-48	60	1524.00	60	1524.00
		30	762	Prefix(†)-30-(*)-HB90-48	63	1600.20	63	1600.20
		36	914.4	Prefix(†)-36-(*)-HB90-48	66	1676.40	66	1676.40
		42	1,066.8	Prefix(†)-42-(*)-HB90-48	69	1752.60	69	1752.60

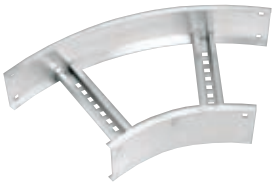
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.

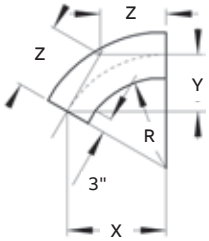
Fitting number selection



—

60° Horizontal bend





Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HB60-12	14⅞	377.83	8⅝	219.08	9 15/16	252.41
		9	228.6	Prefix(†)-09-(*)-HB60-12	16 3/16	411.16	9⅜	238.13	10 13/16	274.64
		12	304.8	Prefix(†)-12-(*)-HB60-12	17½	444.50	10⅛	257.18	11 11/16	296.86
		18	457.2	Prefix(†)-18-(*)-HB60-12	20 1/16	509.59	11⅝	295.28	13⅜	339.73
		24	609.6	Prefix(†)-24-(*)-HB60-12	22 11/16	576.26	13⅛	333.38	15⅛	384.18
		30	762	Prefix(†)-30-(*)-HB60-12	25 5/16	642.94	14⅝	371.48	16⅞	428.63
		36	914.4	Prefix(†)-36-(*)-HB60-12	27⅞	708.03	16⅛	409.58	18 9/16	471.49
		42	1,066.8	Prefix(†)-42-(*)-HB60-12	30½	774.70	17⅝	447.68	20 5/16	515.94
24	609.6	6	152.4	Prefix(†)-06-(*)-HB60-24	25 5/16	642.94	14⅝	371.48	16⅞	428.63
		9	228.6	Prefix(†)-09-(*)-HB60-24	26 9/16	674.69	15⅜	390.53	17¾	450.85
		12	304.8	Prefix(†)-12-(*)-HB60-24	27⅞	708.03	16⅛	409.58	18 9/16	471.49
		18	457.2	Prefix(†)-18-(*)-HB60-24	30½	774.70	17⅝	447.68	20 5/16	515.94
		24	609.6	Prefix(†)-24-(*)-HB60-24	33 1/16	839.79	19⅛	485.78	22 1/16	560.39
		30	762	Prefix(†)-30-(*)-HB60-24	35 11/16	906.46	20⅝	523.88	23 13/16	604.84
		36	914.4	Prefix(†)-36-(*)-HB60-24	38¼	971.55	22⅛	561.98	25½	647.70
		42	1,066.8	Prefix(†)-42-(*)-HB60-24	40⅞	1038.23	23⅝	600.08	27¼	692.15
36	914.4	6	152.4	Prefix(†)-06-(*)-HB60-36	35 11/16	906.46	20⅝	523.88	23 13/16	604.84
		9	228.6	Prefix(†)-09-(*)-HB60-36	37	939.80	21⅜	542.93	24⅝	625.48
		12	304.8	Prefix(†)-12-(*)-HB60-36	38¼	971.55	22⅛	561.98	25½	647.70
		18	457.2	Prefix(†)-18-(*)-HB60-36	40⅞	1038.23	23⅝	600.08	27¼	692.15
		24	609.6	Prefix(†)-24-(*)-HB60-36	43½	1104.90	25⅛	638.18	29	736.60
		30	762	Prefix(†)-30-(*)-HB60-36	46 1/16	1169.99	26⅝	676.28	30 11/16	779.46
		36	914.4	Prefix(†)-36-(*)-HB60-36	48 11/16	1236.66	28⅛	714.38	32 7/16	823.91
		42	1,066.8	Prefix(†)-42-(*)-HB60-36	51¼	1301.75	29⅝	752.48	34 3/16	868.36
48	1,219.2	6	152.4	Prefix(†)-06-(*)-HB60-48	46 1/16	1169.99	26⅝	676.28	30 11/16	779.46
		9	228.6	Prefix(†)-09-(*)-HB60-48	47⅜	1203.33	27⅜	695.33	31 9/16	801.69
		12	304.8	Prefix(†)-12-(*)-HB60-48	48 11/16	1236.66	28⅛	714.38	32 7/16	823.91
		18	457.2	Prefix(†)-18-(*)-HB60-48	51¼	1301.75	29⅝	752.48	34 3/16	868.36
		24	609.6	Prefix(†)-24-(*)-HB60-48	53⅞	1368.43	31⅛	790.58	35 15/16	912.81
		30	762	Prefix(†)-30-(*)-HB60-48	56 7/16	1433.51	32⅝	828.68	37⅝	955.68
		36	914.4	Prefix(†)-36-(*)-HB60-48	59 1/16	1500.19	34⅛	866.78	39⅜	1000.13
		42	1,066.8	Prefix(†)-42-(*)-HB60-48	61 11/16	1566.86	35⅝	904.88	41⅛	1044.58

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.

—

*Dimension
Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

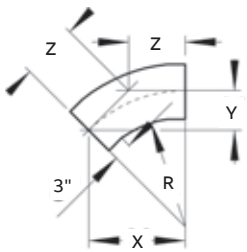
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°, 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

Metallic - Steel fittings

45°/30° Horizontal bend fittings

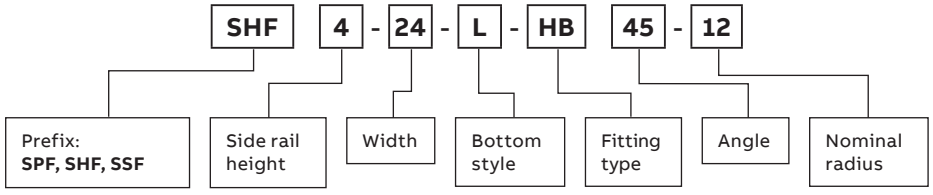
45° Horizontal bend



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HB45-12	13⅝	346.08	5⅝	142.88	8	203.20
		9	228.6	Prefix(†)-09-(*)-HB45-12	14¹¹⁄₁₆	373.06	6¹⁄₁₆	153.99	8⁹⁄₁₆	217.49
		12	304.8	Prefix(†)-12-(*)-HB45-12	15¾	400.05	6½	165.10	9³⁄₁₆	233.36
		18	457.2	Prefix(†)-18-(*)-HB45-12	17⅞	454.03	7⅜	187.33	10⁷⁄₁₆	265.11
		24	609.6	Prefix(†)-24-(*)-HB45-12	20	508.00	8¼	209.55	11¹¹⁄₁₆	296.86
		30	762	Prefix(†)-30-(*)-HB45-12	22¹⁄₁₆	560.39	9⅛	231.78	12¹⁵⁄₁₆	328.61
		36	914.4	Prefix(†)-36-(*)-HB45-12	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		42	1,066.8	Prefix(†)-42-(*)-HB45-12	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	15⁷⁄₁₆	392.11
24	609.6	6	152.4	Prefix(†)-06-(*)-HB45-24	22¹⁄₁₆	560.39	9⅛	231.78	12¹⁵⁄₁₆	328.61
		9	228.6	Prefix(†)-09-(*)-HB45-24	23⅛	587.38	9⁹⁄₁₆	242.89	13⁹⁄₁₆	344.49
		12	304.8	Prefix(†)-12-(*)-HB45-24	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		18	457.2	Prefix(†)-18-(*)-HB45-24	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	15⁷⁄₁₆	392.11
		24	609.6	Prefix(†)-24-(*)-HB45-24	28⁷⁄₁₆	722.31	11¹³⁄₁₆	300.04	16¹¹⁄₁₆	423.86
		30	762	Prefix(†)-30-(*)-HB45-24	30⁹⁄₁₆	776.29	12¹¹⁄₁₆	322.26	17¹⁵⁄₁₆	455.61
		36	914.4	Prefix(†)-36-(*)-HB45-24	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19⅛	485.78
		42	1,066.8	Prefix(†)-42-(*)-HB45-24	34¹³⁄₁₆	884.24	14⅞	377.83	20⅜	517.53
36	914.4	6	152.4	Prefix(†)-06-(*)-HB45-36	30⁹⁄₁₆	776.29	12¹¹⁄₁₆	322.26	17¹⁵⁄₁₆	455.61
		9	228.6	Prefix(†)-09-(*)-HB45-36	31⅝	794.46	13⅛	333.38	18⁹⁄₁₆	471.49
		12	304.8	Prefix(†)-12-(*)-HB45-36	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19⅛	485.78
		18	457.2	Prefix(†)-18-(*)-HB45-36	34¹³⁄₁₆	884.24	14⁷⁄₁₆	366.71	20⅜	517.53
		24	609.6	Prefix(†)-24-(*)-HB45-36	36¹⁵⁄₁₆	938.21	15¹⁵⁄₁₆	404.81	21⅝	549.28
		30	762	Prefix(†)-30-(*)-HB45-36	39¹⁄₁₆	992.19	16³⁄₁₆	411.16	22⅞	581.03
		36	914.4	Prefix(†)-36-(*)-HB45-36	41³⁄₁₆	1046.16	17¹⁄₁₆	433.39	24⅛	612.78
		42	1,066.8	Prefix(†)-42-(*)-HB45-36	43⁵⁄₁₆	1100.14	17¹⁵⁄₁₆	455.61	25⅜	644.53
48	1,219.2	6	152.4	Prefix(†)-06-(*)-HB45-48	39¹⁄₁₆	992.19	16³⁄₁₆	411.16	22⅞	581.03
		9	228.6	Prefix(†)-09-(*)-HB45-48	40⅛	1019.18	16⅜	415.93	23½	596.90
		12	304.8	Prefix(†)-12-(*)-HB45-48	41³⁄₁₆	1046.16	17½	444.50	24⅛	612.78
		18	457.2	Prefix(†)-18-(*)-HB45-48	43⁵⁄₁₆	1100.14	17¹⁵⁄₁₆	379.41	25⅜	644.53
		24	609.6	Prefix(†)-24-(*)-HB45-48	45⁷⁄₁₆	1154.11	18¹³⁄₁₆	477.84	26⅝	676.28
		30	762	Prefix(†)-30-(*)-HB45-48	47⁹⁄₁₆	1208.09	19¹¹⁄₁₆	500.06	27¾	704.85
		36	914.4	Prefix(†)-36-(*)-HB45-48	49¹¹⁄₁₆	1262.06	20⁹⁄₁₆	522.29	29⅛	739.78
		42	1,066.8	Prefix(†)-42-(*)-HB45-48	51¹³⁄₁₆	1316.04	21⁷⁄₁₆	544.51	30⁵⁄₁₆	769.94

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.

Fitting number selection

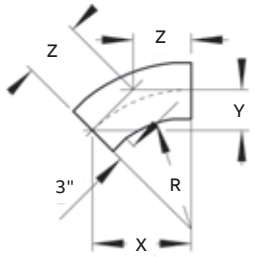


—

30° Horizontal bend

Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HB30-12	11⅝	295.28	3⅛	79.38	6³⁄₁₆	157.16
		9	228.6	Prefix(†)-09-(*)-HB30-12	12⅜	314.33	3⁵⁄₁₆	84.14	6⅝	168.28
		12	304.8	Prefix(†)-12-(*)-HB30-12	13½	342.90	3½	88.90	7	177.80
		18	457.2	Prefix(†)-18-(*)-HB30-12	14⅝	371.48	3¹⁵⁄₁₆	100.01	7¹³⁄₁₆	198.44
		24	609.6	Prefix(†)-24-(*)-HB30-12	16⅛	409.58	4⅝	109.54	8⅝	219.08
		30	762	Prefix(†)-30-(*)-HB30-12	17⅝	447.68	4¹¹⁄₁₆	119.06	9⁷⁄₁₆	239.71
		36	914.4	Prefix(†)-36-(*)-HB30-12	19⅛	485.78	5⅛	130.18	10¼	260.35
		42	1,066.8	Prefix(†)-42-(*)-HB30-12	20⅝	523.88	5½	139.70	11⅛	282.58
24	609.6	6	152.4	Prefix(†)-06-(*)-HB30-24	17⅝	447.68	4¹¹⁄₁₆	119.06	9⁷⁄₁₆	239.71
		9	228.6	Prefix(†)-09-(*)-HB30-24	18⅜	466.73	4¹⁵⁄₁₆	125.41	9¹³⁄₁₆	249.24
		12	304.8	Prefix(†)-12-(*)-HB30-24	19⅛	485.78	5³⁄₁₆	130.18	10¼	260.35
		18	457.2	Prefix(†)-18-(*)-HB30-24	20⅝	523.88	5⅝	139.70	11⁹⁄₁₆	280.99
		24	609.6	Prefix(†)-24-(*)-HB30-24	22⅛	561.98	5¹⁵⁄₁₆	150.81	11¹³⁄₁₆	300.04
		30	762	Prefix(†)-30-(*)-HB30-24	23⅝	600.08	6⁵⁄₁₆	160.34	12⅝	320.68
		36	914.4	Prefix(†)-36-(*)-HB30-24	25⅛	638.18	6¾	171.45	13⁷⁄₁₆	341.31
		42	1,066.8	Prefix(†)-42-(*)-HB30-24	26⅝	676.28	7⅛	180.98	14½	368.30
36	914.4	6	152.4	Prefix(†)-06-(*)-HB30-36	23⅝	600.08	6⁵⁄₁₆	160.34	12⅝	320.68
		9	228.6	Prefix(†)-09-(*)-HB30-36	24⅜	619.13	6½	165.10	13¹⁄₁₆	331.79
		12	304.8	Prefix(†)-12-(*)-HB30-36	25⅛	638.18	6¾	171.45	13⁷⁄₁₆	341.31
		18	457.2	Prefix(†)-18-(*)-HB30-36	26⅝	676.28	7¼	184.15	14¼	361.95
		24	609.6	Prefix(†)-24-(*)-HB30-36	28⅛	714.38	7½	190.50	15¹⁄₁₆	382.59
		30	762	Prefix(†)-30-(*)-HB30-36	29⅝	752.48	7¹⁵⁄₁₆	198.97	15⅞	403.23
		36	914.4	Prefix(†)-36-(*)-HB30-36	31⅛	790.58	8⁵⁄₁₆	211.14	16¹¹⁄₁₆	423.86
		42	1,066.8	Prefix(†)-42-(*)-HB30-36	32⅝	828.68	8¾	222.25	17½	444.50
48	1,219.2	6	152.4	Prefix(†)-06-(*)-HB30-48	29⅝	752.48	7¹⁵⁄₁₆	201.61	15⅞	403.23
		9	228.6	Prefix(†)-09-(*)-HB30-48	30⅜	771.53	8⅛	206.38	16¼	412.75
		12	304.8	Prefix(†)-12-(*)-HB30-48	31⅞	809.63	8⁵⁄₁₆	211.14	16¹¹⁄₁₆	423.86
		18	457.2	Prefix(†)-18-(*)-HB30-48	32⅝	828.68	8¾	222.25	17½	444.50
		24	609.6	Prefix(†)-24-(*)-HB30-48	34⅛	866.78	9⅛	231.78	18¼	463.55
		30	762	Prefix(†)-30-(*)-HB30-48	35⅝	904.88	9⁹⁄₁₆	242.89	19¹⁄₁₆	484.19
		36	914.4	Prefix(†)-36-(*)-HB30-48	37⅛	942.98	9¹⁵⁄₁₆	252.41	19⅞	504.83
		42	1,066.8	Prefix(†)-42-(*)-HB30-48	38⅝	981.08	10⁵⁄₁₆	261.94	20¹¹⁄₁₆	525.46

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.



—

*Dimension
Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

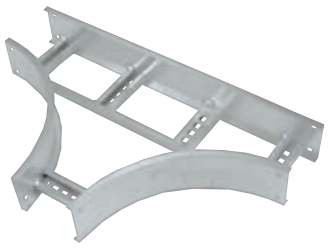
Selection guide

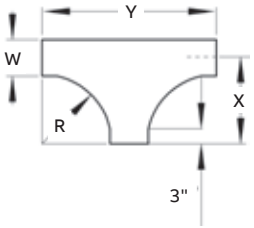
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°, 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

Metallic - Steel fittings

Horizontal tee and cross fittings

Horizontal tee

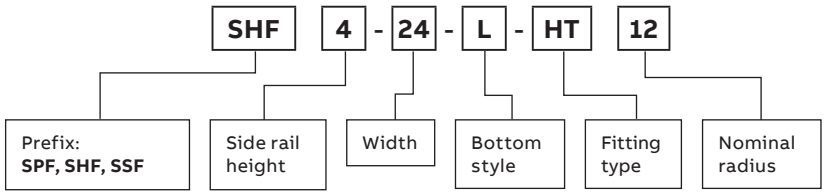




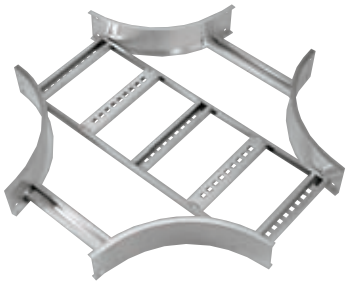
Nominal Radius		Nominal Width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HT12	15	381.00	30	762.00
		9	228.6	Prefix(†)-09-(*)-HT12	16½	419.10	33	838.20
		12	304.8	Prefix(†)-12-(*)-HT12	18	457.20	36	914.40
		18	457.2	Prefix(†)-18-(*)-HT12	21	533.40	42	1066.80
		24	609.6	Prefix(†)-24-(*)-HT12	24	609.60	48	1219.20
		30	762	Prefix(†)-30-(*)-HT12	27	685.80	54	1371.60
		36	914.4	Prefix(†)-36-(*)-HT12	30	762.00	60	1524.00
		42	1,066.8	Prefix(†)-42-(*)-HT12	33	838.20	66	1676.40
24	609.6	6	152.4	Prefix(†)-06-(*)-HT24	27	685.80	54	1371.60
		9	228.6	Prefix(†)-09-(*)-HT24	28½	723.90	57	1447.80
		12	304.8	Prefix(†)-12-(*)-HT24	30	762.00	60	1524.00
		18	457.2	Prefix(†)-18-(*)-HT24	33	838.20	66	1676.40
		24	609.6	Prefix(†)-24-(*)-HT24	36	914.40	72	1828.80
		30	762	Prefix(†)-30-(*)-HT24	39	990.60	78	1981.20
		36	914.4	Prefix(†)-36-(*)-HT24	42	1066.80	84	2133.60
		42	1,066.8	Prefix(†)-42-(*)-HT24	45	1143.00	90	2286.00
36	914.4	6	152.4	Prefix(†)-06-(*)-HT36	39	990.60	78	1981.20
		9	228.6	Prefix(†)-09-(*)-HT36	40½	1028.70	81	2057.40
		12	304.8	Prefix(†)-12-(*)-HT36	42	1066.80	84	2133.60
		18	457.2	Prefix(†)-18-(*)-HT36	45	1143.00	90	2286.00
		24	609.6	Prefix(†)-24-(*)-HT36	48	1219.20	96	2438.40
		30	762	Prefix(†)-30-(*)-HT36	51	1295.40	102	2590.80
		36	914.4	Prefix(†)-36-(*)-HT36	54	1371.60	108	2743.20
		42	1,066.8	Prefix(†)-42-(*)-HT36	57	1447.80	114	2895.60
48	1,219.2	6	152.4	Prefix(†)-06-(*)-HT48	51	1295.40	102	2590.80
		9	228.6	Prefix(†)-09-(*)-HT48	52½	1333.50	105	2667.00
		12	304.8	Prefix(†)-12-(*)-HT48	54	1371.60	108	2743.20
		18	457.2	Prefix(†)-18-(*)-HT48	57	1447.80	114	2895.60
		24	609.6	Prefix(†)-24-(*)-HT48	60	1524.00	120	3048.00
		30	762	Prefix(†)-30-(*)-HT48	63	1600.20	126	3200.40
		36	914.4	Prefix(†)-36-(*)-HT48	66	1676.40	132	3352.80
		42	1,066.8	Prefix(†)-42-(*)-HT48	69	1752.60	138	3505.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.

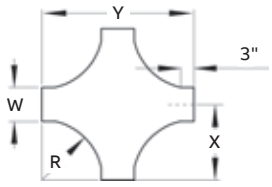
Fitting number selection



—
Horizontal cross



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HX12	15	381.00	30	762.00
		9	228.6	Prefix(†)-09-(*)-HX12	16½	419.10	33	838.20
		12	304.8	Prefix(†)-12-(*)-HX12	18	457.20	36	914.40
		18	457.2	Prefix(†)-18-(*)-HX12	21	533.40	42	1066.80
		24	609.6	Prefix(†)-24-(*)-HX12	24	609.60	48	1219.20
		30	762	Prefix(†)-30-(*)-HX12	27	685.80	54	1371.60
		36	914.4	Prefix(†)-36-(*)-HX12	30	762.00	60	1524.00
		42	1,066.8	Prefix(†)-42-(*)-HX12	33	838.20	66	1676.40
24	609.6	6	152.4	Prefix(†)-06-(*)-HX24	27	685.80	54	1371.60
		9	228.6	Prefix(†)-09-(*)-HX24	28½	723.90	57	1447.80
		12	304.8	Prefix(†)-12-(*)-HX24	30	762.00	60	1524.00
		18	457.2	Prefix(†)-18-(*)-HX24	33	838.20	66	1676.40
		24	609.6	Prefix(†)-24-(*)-HX24	36	914.40	72	1828.80
		30	762	Prefix(†)-30-(*)-HX24	39	990.60	78	1981.20
		36	914.4	Prefix(†)-36-(*)-HX24	42	1066.80	84	2133.60
		42	1,066.8	Prefix(†)-42-(*)-HX24	45	1143.00	90	2286.00
36	914.4	6	152.4	Prefix(†)-06-(*)-HX36	39	990.60	78	1981.20
		9	228.6	Prefix(†)-09-(*)-HX36	40½	1028.70	81	2057.40
		12	304.8	Prefix(†)-12-(*)-HX36	42	1066.80	84	2133.60
		18	457.2	Prefix(†)-18-(*)-HX36	45	1143.00	90	2286.00
		24	609.6	Prefix(†)-24-(*)-HX36	48	1219.20	96	2438.40
		30	762	Prefix(†)-30-(*)-HX36	51	1295.40	102	2590.80
		36	914.4	Prefix(†)-36-(*)-HX36	54	1371.60	108	2743.20
		42	1,066.8	Prefix(†)-42-(*)-HX36	57	1447.80	114	2895.60
48	1,219.2	6	152.4	Prefix(†)-06-(*)-HX48	51	1295.40	102	2590.80
		9	228.6	Prefix(†)-09-(*)-HX48	52½	1333.50	105	2667.00
		12	304.8	Prefix(†)-12-(*)-HX48	54	1371.60	108	2743.20
		18	457.2	Prefix(†)-18-(*)-HX48	57	1447.80	114	2895.60
		24	609.6	Prefix(†)-24-(*)-HX48	60	1524.00	120	3048.00
		30	762	Prefix(†)-30-(*)-HX48	63	1600.20	126	3200.40
		36	914.4	Prefix(†)-36-(*)-HX48	66	1676.40	132	3352.80
		42	1,066.8	Prefix(†)-42-(*)-HX48	69	1752.60	138	3505.20



(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.

—
*Dimension
Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

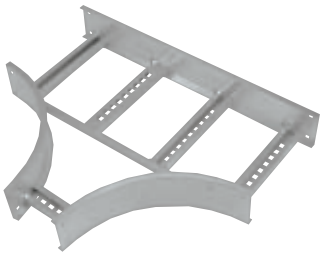
Selection guide

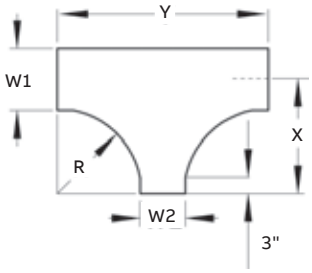
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

Metallic - Steel fittings

Horizontal reducing tee

Horizontal reducing tee

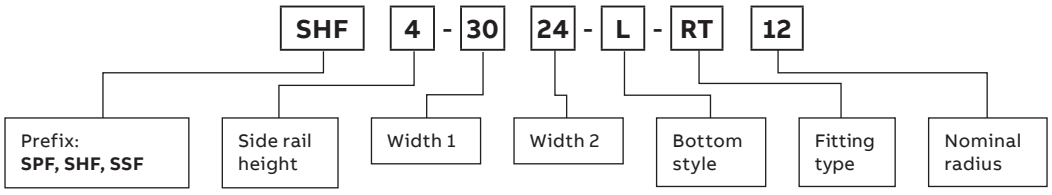




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	Prefix(†)-4236-(*)-RT(+)	33	838.20	60	1524.00	45	1143.00	84	2133.60
		30	762	Prefix(†)-4230-(*)-RT(+)	33	838.20	54	1371.60	45	1143.00	74	1879.60
		24	609.6	Prefix(†)-4224-(*)-RT(+)	33	838.20	48	1219.20	45	1143.00	72	1828.80
		18	457.2	Prefix(†)-4218-(*)-RT(+)	33	838.20	42	1066.80	45	1143.00	66	1676.40
		12	304.8	Prefix(†)-4212-(*)-RT(+)	33	838.20	36	914.40	45	1143.00	60	1524.00
		9	228.6	Prefix(†)-4209-(*)-RT(+)	33	838.20	33	838.20	45	1143.00	57	1447.80
		6	152.4	Prefix(†)-4206-(*)-RT(+)	33	838.20	30	762.00	45	1143.00	54	1371.60
36	914.4	30	762	Prefix(†)-3630-(*)-RT(+)	30	762.00	54	1371.60	42	1066.80	78	1981.20
		24	609.6	Prefix(†)-3624-(*)-RT(+)	30	762.00	48	1219.20	42	1066.80	72	1828.80
		18	457.2	Prefix(†)-3618-(*)-RT(+)	30	762.00	42	1066.80	42	1066.80	66	1676.40
		12	304.8	Prefix(†)-3612-(*)-RT(+)	30	762.00	36	914.40	42	1066.80	60	1524.00
		9	228.6	Prefix(†)-3609-(*)-RT(+)	30	762.00	33	838.20	42	1066.80	57	1447.80
		6	152.4	Prefix(†)-3606-(*)-RT(+)	30	762.00	30	762.00	42	1066.80	54	1371.60
30	762	24	609.6	Prefix(†)-3024-(*)-RT(+)	27	685.80	48	1219.20	39	990.60	72	1828.80
		18	457.2	Prefix(†)-3018-(*)-RT(+)	27	685.80	42	1066.80	39	990.60	66	1676.40
		12	304.8	Prefix(†)-3012-(*)-RT(+)	27	685.80	36	914.40	39	990.60	60	1524.00
		9	228.6	Prefix(†)-3009-(*)-RT(+)	27	685.80	33	838.20	39	990.60	57	1447.80
		6	152.4	Prefix(†)-3006-(*)-RT(+)	27	685.80	30	762.00	39	990.60	54	1371.60
24	609.6	18	457.2	Prefix(†)-2418-(*)-RT(+)	24	609.60	42	1066.80	36	914.40	66	1676.40
		12	304.8	Prefix(†)-2412-(*)-RT(+)	24	609.60	36	914.40	36	914.40	60	1524.00
		9	228.6	Prefix(†)-2409-(*)-RT(+)	24	609.60	33	838.20	36	914.40	57	1447.80
		6	152.4	Prefix(†)-2406-(*)-RT(+)	24	609.60	30	762.00	36	914.40	54	1371.60
18	457.2	12	304.8	Prefix(†)-1812-(*)-RT(+)	21	533.40	36	914.40	33	838.20	60	1524.00
		9	228.6	Prefix(†)-1809-(*)-RT(+)	21	533.40	33	838.20	33	838.20	57	1447.80
		6	152.4	Prefix(†)-1806-(*)-RT(+)	21	533.40	30	762.00	33	838.20	54	1371.60
12	304.8	9	228.6	Prefix(†)-1209-(*)-RT(+)	18	457.20	33	838.20	30	762.00	57	1447.80
		6	152.4	Prefix(†)-1206-(*)-RT(+)	18	457.20	30	762.00	30	762.00	54	1371.60
9	228.6	6	152.4	Prefix(†)-0906-(*)-RT(+)	16½	419.10	30	762.00	28½	723.90	54	1371.60

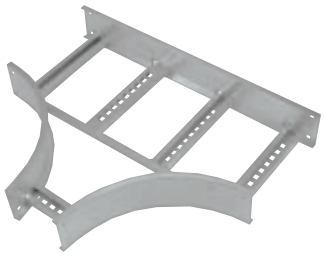
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.

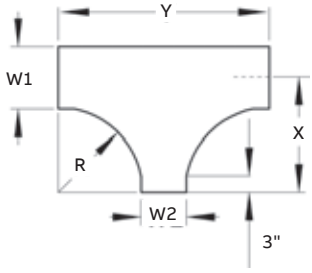
Fitting number selection



—

Horizontal reducing tee (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	Prefix(†)-4236-(*)-RT(+)	57	1447.80	108	2743.20	69	1752.60	132	3352.80
		30	762	Prefix(†)-4230-(*)-RT(+)	57	1447.80	102	2590.80	69	1752.60	126	3200.40
		24	609.6	Prefix(†)-4224-(*)-RT(+)	57	1447.80	96	2438.40	69	1752.60	120	3048.00
		18	457.2	Prefix(†)-4218-(*)-RT(+)	57	1447.80	90	2286.00	69	1752.60	114	2895.60
		12	304.8	Prefix(†)-4212-(*)-RT(+)	57	1447.80	84	2133.60	69	1752.60	108	2743.20
		9	228.6	Prefix(†)-4209-(*)-RT(+)	57	1447.80	81	2057.40	69	1752.60	105	2667.00
		6	152.4	Prefix(†)-4206-(*)-RT(+)	57	1447.80	78	1981.20	69	1752.60	102	2590.80
36	914.4	30	762	Prefix(†)-3630-(*)-RT(+)	54	1371.60	102	2590.80	66	1676.40	126	3200.40
		24	609.6	Prefix(†)-3624-(*)-RT(+)	54	1371.60	96	2438.40	66	1676.40	120	3048.00
		18	457.2	Prefix(†)-3618-(*)-RT(+)	54	1371.60	90	2286.00	66	1676.40	114	2895.60
		12	304.8	Prefix(†)-3612-(*)-RT(+)	54	1371.60	84	2133.60	66	1676.40	108	2743.20
		9	228.6	Prefix(†)-3609-(*)-RT(+)	54	1371.60	81	2057.40	66	1676.40	105	2667.00
		6	152.4	Prefix(†)-3606-(*)-RT(+)	54	1371.60	78	1981.20	66	1676.40	102	2590.80
30	762	24	609.6	Prefix(†)-3024-(*)-RT(+)	51	1295.40	96	2438.40	63	1600.20	120	3048.00
		18	457.2	Prefix(†)-3018-(*)-RT(+)	51	1295.40	90	2286.00	63	1600.20	114	2895.60
		12	304.8	Prefix(†)-3012-(*)-RT(+)	51	1295.40	84	2133.60	63	1600.20	108	2743.20
		9	228.6	Prefix(†)-3009-(*)-RT(+)	51	1295.40	81	2057.40	63	1600.20	105	2667.00
		6	152.4	Prefix(†)-3006-(*)-RT(+)	51	1295.40	78	1981.20	63	1600.20	102	2590.80
24	609.6	18	457.2	Prefix(†)-2418-(*)-RT(+)	48	1219.20	90	2286.00	60	1524.00	114	2895.60
		12	304.8	Prefix(†)-2412-(*)-RT(+)	48	1219.20	84	2133.60	60	1524.00	108	2743.20
		9	228.6	Prefix(†)-2409-(*)-RT(+)	48	1219.20	81	2057.40	60	1524.00	105	2667.00
		6	152.4	Prefix(†)-2406-(*)-RT(+)	48	1219.20	78	1981.20	60	1524.00	102	2590.80
18	457.2	12	304.8	Prefix(†)-1812-(*)-RT(+)	45	1143.00	84	2133.60	57	1447.80	108	2743.20
		9	228.6	Prefix(†)-1809-(*)-RT(+)	45	1143.00	81	2057.40	57	1447.80	105	2667.00
		6	152.4	Prefix(†)-1806-(*)-RT(+)	45	1143.00	78	1981.20	57	1447.80	102	2590.80
12	304.8	9	228.6	Prefix(†)-1209-(*)-RT(+)	42	1066.80	81	2057.40	54	1371.60	105	2667.00
		6	152.4	Prefix(†)-1206-(*)-RT(+)	42	1066.80	78	1981.20	54	1371.60	102	2590.80
9	228.6	6	152.4	Prefix(†)-0906-(*)-RT(+)	40½	1028.70	78	1981.20	52½	1333.50	102	2590.80

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.

—

*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

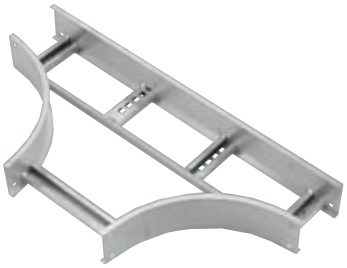
Selection guide

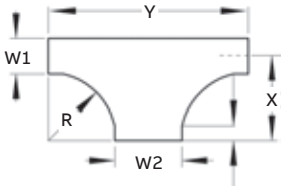
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Tray widths W2: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

Metallic - Steel fittings

Horizontal expanding tee

Horizontal expanding tee

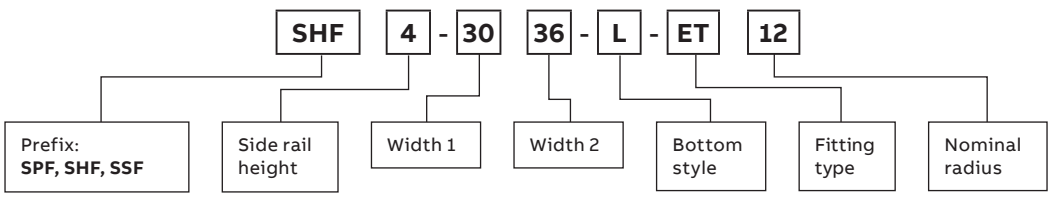




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	Prefix(†)-3642-(*)-ET(+)	30	762.00	66	1676.40	42	1066.80	90	2286.00
30	762	36	914.4	Prefix(†)-3036-(*)-ET(+)	27	685.80	60	1524.00	39	990.60	84	2133.60
		42	1,066.8	Prefix(†)-3042-(*)-ET(+)	27	685.80	66	1676.40	39	990.60	90	2286.00
24	609.6	30	762	Prefix(†)-2430-(*)-ET(+)	24	609.60	54	1371.60	36	914.40	78	1981.20
		36	914.4	Prefix(†)-2436-(*)-ET(+)	24	609.60	60	1524.00	36	914.40	84	2133.60
		42	1,066.8	Prefix(†)-2442-(*)-ET(+)	24	609.60	66	1676.40	36	914.40	90	2286.00
18	457.2	24	609.6	Prefix(†)-1824-(*)-ET(+)	21	533.40	48	1219.20	33	838.20	72	1828.80
		30	762	Prefix(†)-1830-(*)-ET(+)	21	533.40	54	1371.60	33	838.20	78	1981.20
		36	914.4	Prefix(†)-1836-(*)-ET(+)	21	533.40	60	1524.00	33	838.20	84	2133.60
		42	1,066.8	Prefix(†)-1842-(*)-ET(+)	21	533.40	66	1676.40	33	838.20	90	2286.00
12	304.8	18	457.2	Prefix(†)-1218-(*)-ET(+)	18	457.20	42	1066.80	30	762.00	66	1676.40
		24	609.6	Prefix(†)-1224-(*)-ET(+)	18	457.20	48	1219.20	30	762.00	72	1828.80
		30	762	Prefix(†)-1230-(*)-ET(+)	18	457.20	54	1371.60	30	762.00	78	1981.20
		36	914.4	Prefix(†)-1236-(*)-ET(+)	18	457.20	60	1524.00	30	762.00	84	2133.60
		42	1,066.8	Prefix(†)-1242-(*)-ET(+)	18	457.20	66	1676.40	30	762.00	90	2286.00
9	228.6	12	304.8	Prefix(†)-0912-(*)-ET(+)	16½	419.10	36	914.40	28½	723.90	60	1524.00
		18	457.2	Prefix(†)-0918-(*)-ET(+)	16½	419.10	42	1066.80	28½	723.90	66	1676.40
		24	609.6	Prefix(†)-0924-(*)-ET(+)	16½	419.10	48	1219.20	28½	723.90	72	1828.80
		30	762	Prefix(†)-0930-(*)-ET(+)	16½	419.10	54	1371.60	28½	723.90	78	1981.20
		36	914.4	Prefix(†)-0936-(*)-ET(+)	16½	419.10	60	1524.00	28½	723.90	84	2133.60
		42	1,066.8	Prefix(†)-0942-(*)-ET(+)	16½	419.10	66	1676.40	28½	723.90	90	2286.00
6	152.4	9	228.6	Prefix(†)-0609-(*)-ET(+)	15	381.00	33	838.20	27	685.80	57	1447.80
		12	304.8	Prefix(†)-0612-(*)-ET(+)	15	381.00	36	914.40	27	685.80	60	1524.00
		18	457.2	Prefix(†)-0618-(*)-ET(+)	15	381.00	42	1066.80	27	685.80	66	1676.40
		24	609.6	Prefix(†)-0642-(*)-ET(+)	15	381.00	48	1219.20	27	685.80	72	1828.80
		30	762	Prefix(†)-0630-(*)-ET(+)	15	381.00	54	1371.60	27	685.80	78	1981.20
		36	914.4	Prefix(†)-0636-(*)-ET(+)	15	381.00	60	1524.00	27	685.80	84	2133.60
		42	1,066.8	Prefix(†)-0642-(*)-ET(+)	15	381.00	66	1676.40	27	685.80	90	2286.00

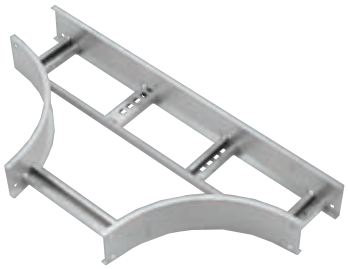
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.

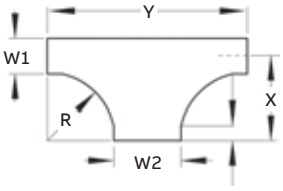
Fitting number selection



—

Horizontal expanding tee (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	Prefix(†)-3642-(*)-ET(+)	54	1371.60	114	2895.60	66	1676.40	138	3505.20
30	762	36	914.4	Prefix(†)-3036-(*)-ET(+)	51	1295.40	108	2743.20	63	1600.20	132	3352.80
		42	1,066.8	Prefix(†)-3042-(*)-ET(+)	51	1295.40	114	2895.60	63	1600.20	138	3505.20
24	609.6	30	762	Prefix(†)-2430-(*)-ET(+)	48	1219.20	102	2590.80	60	1524.00	126	3200.40
		36	914.4	Prefix(†)-2436-(*)-ET(+)	48	1219.20	108	2743.20	60	1524.00	132	3352.80
		42	1,066.8	Prefix(†)-2442-(*)-ET(+)	48	1219.20	114	2895.60	60	1524.00	138	3505.20
18	457.2	24	609.6	Prefix(†)-1824-(*)-ET(+)	45	1143.00	96	2438.40	57	1447.80	120	3048.00
		30	762	Prefix(†)-1830-(*)-ET(+)	45	1143.00	102	2590.80	57	1447.80	126	3200.40
		36	914.4	Prefix(†)-1836-(*)-ET(+)	45	1143.00	108	2743.20	57	1447.80	132	3352.80
		42	1,066.8	Prefix(†)-1842-(*)-ET(+)	45	1143.00	114	2895.60	57	1447.80	138	3505.20
12	304.8	18	457.2	Prefix(†)-1218-(*)-ET(+)	42	1066.80	90	2286.00	54	1371.60	114	2895.60
		24	609.6	Prefix(†)-1224-(*)-ET(+)	42	1066.80	96	2438.40	54	1371.60	120	3048.00
		30	762	Prefix(†)-1230-(*)-ET(+)	42	1066.80	102	2590.80	54	1371.60	126	3200.40
		36	914.4	Prefix(†)-1236-(*)-ET(+)	42	1066.80	108	2743.20	54	1371.60	132	3352.80
		42	1,066.8	Prefix(†)-1242-(*)-ET(+)	42	1066.80	114	2895.60	54	1371.60	138	3505.20
9	228.6	12	304.8	Prefix(†)-0912-(*)-ET(+)	40½	1028.70	84	2133.60	52½	1333.50	108	2743.20
		18	457.2	Prefix(†)-0918-(*)-ET(+)	40½	1028.70	90	2286.00	52½	1333.50	114	2895.60
		24	609.6	Prefix(†)-0924-(*)-ET(+)	40½	1028.70	96	2438.40	52½	1333.50	120	3048.00
		30	762	Prefix(†)-0930-(*)-ET(+)	40½	1028.70	102	2590.80	52½	1333.50	126	3200.40
		36	914.4	Prefix(†)-0936-(*)-ET(+)	40½	1028.70	108	2743.20	52½	1333.50	132	3352.80
		42	1,066.8	Prefix(†)-0942-(*)-ET(+)	40½	1028.70	114	2895.60	52½	1333.50	138	3505.20
6	152.4	9	228.6	Prefix(†)-0609-(*)-ET(+)	39	990.60	81	2057.40	51	1295.40	105	2667.00
		12	304.8	Prefix(†)-0612-(*)-ET(+)	39	990.60	84	2133.60	51	1295.40	108	2743.20
		18	457.2	Prefix(†)-0618-(*)-ET(+)	39	990.60	90	2286.00	51	1295.40	114	2895.60
		24	609.6	Prefix(†)-0642-(*)-ET(+)	39	990.60	96	2438.40	51	1295.40	120	3048.00
		30	762	Prefix(†)-0630-(*)-ET(+)	39	990.60	102	2590.80	51	1295.40	126	3200.40
		36	914.4	Prefix(†)-0636-(*)-ET(+)	39	990.60	108	2743.20	51	1295.40	132	3352.80
		42	1,066.8	Prefix(†)-0642-(*)-ET(+)	39	990.60	114	2895.60	51	1295.40	138	3505.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.

—

*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

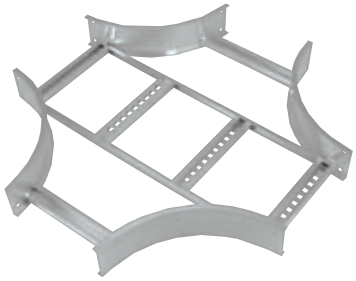
Selection guide

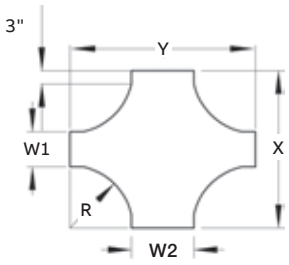
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 6, 9, 12, 18, 24, 30" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

Metallic - Steel fittings

H-style horizontal expanding cross

Horizontal expanding cross

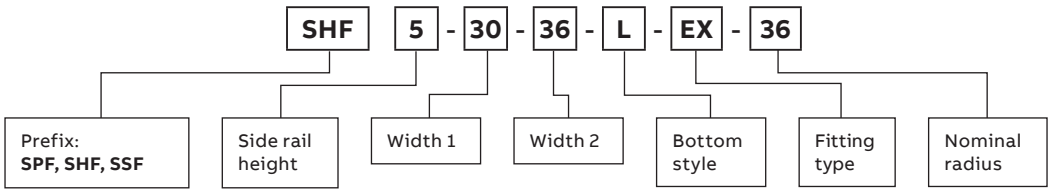




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	Prefix(†)-3642-(*)-EX(+)	60	1524.00	66	1676.40	84	2133.60	90	2286.00
30	762	36	914.4	Prefix(†)-3036-(*)-EX(+)	54	1371.60	60	1524.00	78	1981.20	84	2133.60
		42	1,066.8	Prefix(†)-3042-(*)-EX(+)	54	1371.60	66	1676.40	78	1981.20	90	2286.00
24	609.6	30	762	Prefix(†)-2430-(*)-EX(+)	48	1219.20	54	1371.60	72	1828.80	78	1981.20
		36	914.4	Prefix(†)-2436-(*)-EX(+)	48	1219.20	60	1524.00	72	1828.80	84	2133.60
		42	1,066.8	Prefix(†)-2442-(*)-EX(+)	48	1219.20	66	1676.40	72	1828.80	90	2286.00
18	457.2	24	609.6	Prefix(†)-1824-(*)-EX(+)	42	1066.80	48	1219.20	66	1676.40	72	1828.80
		30	762	Prefix(†)-1830-(*)-EX(+)	42	1066.80	54	1371.60	66	1676.40	78	1981.20
		36	914.4	Prefix(†)-1836-(*)-EX(+)	42	1066.80	60	1524.00	66	1676.40	84	2133.60
		42	1,066.8	Prefix(†)-1842-(*)-EX(+)	42	1066.80	66	1676.40	66	1676.40	90	2286.00
12	304.8	18	457.2	Prefix(†)-1218-(*)-EX(+)	36	914.40	42	1066.80	60	1524.00	66	1676.40
		24	609.6	Prefix(†)-1224-(*)-EX(+)	36	914.40	48	1219.20	60	1524.00	72	1828.80
		30	762	Prefix(†)-1230-(*)-EX(+)	36	914.40	54	1371.60	60	1524.00	78	1981.20
		36	914.4	Prefix(†)-1236-(*)-EX(+)	36	914.40	60	1524.00	60	1524.00	84	2133.60
		42	1,066.8	Prefix(†)-1242-(*)-EX(+)	36	914.40	66	1676.40	60	1524.00	90	2286.00
9	228.6	12	304.8	Prefix(†)-0912-(*)-EX(+)	33	838.20	36	914.40	57	1447.80	60	1524.00
		18	457.2	Prefix(†)-0918-(*)-EX(+)	33	838.20	42	1066.80	57	1447.80	66	1676.40
		24	609.6	Prefix(†)-0924-(*)-EX(+)	33	838.20	48	1219.20	57	1447.80	72	1828.80
		30	762	Prefix(†)-0930-(*)-EX(+)	33	838.20	54	1371.60	57	1447.80	78	1981.20
		36	914.4	Prefix(†)-0936-(*)-EX(+)	33	838.20	60	1524.00	57	1447.80	84	2133.60
		42	1,066.8	Prefix(†)-0942-(*)-EX(+)	33	838.20	66	1676.40	57	1447.80	90	2286.00
6	152.4	9	228.6	Prefix(†)-0609-(*)-EX(+)	30	762.00	33	838.20	54	1371.60	57	1447.80
		12	304.8	Prefix(†)-0612-(*)-EX(+)	30	762.00	36	914.40	54	1371.60	60	1524.00
		18	457.2	Prefix(†)-0618-(*)-EX(+)	30	762.00	42	1066.80	54	1371.60	66	1676.40
		24	609.6	Prefix(†)-0642-(*)-EX(+)	30	762.00	48	1219.20	54	1371.60	72	1828.80
		30	762	Prefix(†)-0630-(*)-EX(+)	30	762.00	54	1371.60	54	1371.60	78	1981.20
		36	914.4	Prefix(†)-0636-(*)-EX(+)	30	762.00	60	1524.00	54	1371.60	84	2133.60
		42	1,066.8	Prefix(†)-0642-(*)-EX(+)	30	762.00	66	1676.40	54	1371.60	90	2286.00

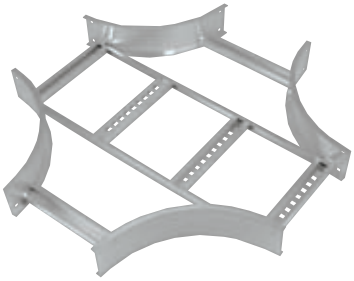
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.

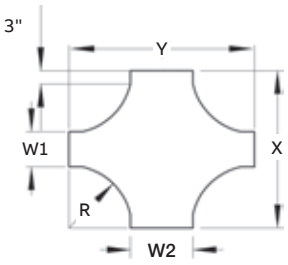
Fitting number selection



—

Horizontal expanding cross (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	X (mm)	Y (in)	Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	X (mm)	Y (in)	Y (mm)
36	914.4	42	1,066.8	Prefix(†)-3642-(*)-EX(+)	108	2743.20	114	2895.60	132	3352.80	138	3505.20
30	762	36	914.4	Prefix(†)-3036-(*)-EX(+)	102	2590.80	108	2743.20	126	3200.40	132	3352.80
		42	1,066.8	Prefix(†)-3042-(*)-EX(+)	102	2590.80	114	2895.60	126	3200.40	138	3505.20
24	609.6	30	762	Prefix(†)-2430-(*)-EX(+)	96	2438.40	102	2590.80	120	3048.00	126	3200.40
		36	914.4	Prefix(†)-2436-(*)-EX(+)	96	2438.40	108	2743.20	120	3048.00	132	3352.80
		42	1,066.8	Prefix(†)-2442-(*)-EX(+)	96	2438.40	114	2895.60	120	3048.00	138	3505.20
18	457.2	24	609.6	Prefix(†)-1824-(*)-EX(+)	90	2286.00	96	2438.40	114	2895.60	120	3048.00
		30	762	Prefix(†)-1830-(*)-EX(+)	90	2286.00	102	2590.80	114	2895.60	126	3200.40
		36	914.4	Prefix(†)-1836-(*)-EX(+)	90	2286.00	108	2743.20	114	2895.60	132	3352.80
		42	1,066.8	Prefix(†)-1842-(*)-EX(+)	90	2286.00	114	2895.60	114	2895.60	138	3505.20
12	304.8	18	457.2	Prefix(†)-1218-(*)-EX(+)	84	2133.60	90	2286.00	108	2743.20	114	2895.60
		24	609.6	Prefix(†)-1224-(*)-EX(+)	84	2133.60	96	2438.40	108	2743.20	120	3048.00
		30	762	Prefix(†)-1230-(*)-EX(+)	84	2133.60	102	2590.80	108	2743.20	126	3200.40
		36	914.4	Prefix(†)-1236-(*)-EX(+)	84	2133.60	108	2743.20	108	2743.20	132	3352.80
		42	1,066.8	Prefix(†)-1242-(*)-EX(+)	84	2133.60	114	2895.60	108	2743.20	138	3505.20
9	228.6	12	304.8	Prefix(†)-0912-(*)-EX(+)	81	2057.40	84	2133.60	105	2667.00	108	2743.20
		18	457.2	Prefix(†)-0918-(*)-EX(+)	81	2057.40	90	2286.00	105	2667.00	114	2895.60
		24	609.6	Prefix(†)-0924-(*)-EX(+)	81	2057.40	96	2438.40	105	2667.00	120	3048.00
		30	762	Prefix(†)-0930-(*)-EX(+)	81	2057.40	102	2590.80	105	2667.00	126	3200.40
		36	914.4	Prefix(†)-0936-(*)-EX(+)	81	2057.40	108	2743.20	105	2667.00	132	3352.80
		42	1,066.8	Prefix(†)-0942-(*)-EX(+)	81	2057.40	114	2895.60	105	2667.00	138	3505.20
6	152.4	9	228.6	Prefix(†)-0609-(*)-EX(+)	78	1981.20	81	2057.40	102	2590.80	105	2667.00
		12	304.8	Prefix(†)-0612-(*)-EX(+)	78	1981.20	84	2133.60	102	2590.80	108	2743.20
		18	457.2	Prefix(†)-0618-(*)-EX(+)	78	1981.20	90	2286.00	102	2590.80	114	2895.60
		24	609.6	Prefix(†)-0642-(*)-EX(+)	78	1981.20	96	2438.40	102	2590.80	120	3048.00
		30	762	Prefix(†)-0630-(*)-EX(+)	78	1981.20	102	2590.80	102	2590.80	126	3200.40
		36	914.4	Prefix(†)-0636-(*)-EX(+)	78	1981.20	108	2743.20	102	2590.80	132	3352.80
		42	1,066.8	Prefix(†)-0642-(*)-EX(+)	78	1981.20	114	2895.60	102	2590.80	138	3505.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.

—

*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

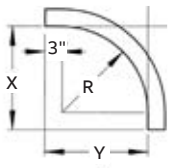
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 6, 9, 12, 18, 24, 30" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

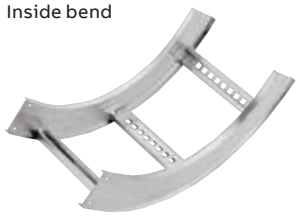
Metallic - Steel fittings

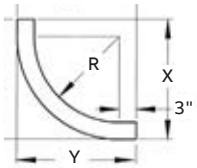
90° Vertical bend fittings

90° Vertical bend

	Nominal Radius		Nominal Width			(+) VO side rail				(+) VI side rail	
						3⅝" (88.9mm) - 7" (177.8mm)		3½" (88.9mm)		4" (101.6mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)90-12	12 304.80	12 304.80	15⅝ 396.88	15⅝ 396.88	16⅜ 419.10	16⅜ 419.10
			9	228.6	Prefix(†)-09-(*)-(+)90-12						
			12	304.8	Prefix(†)-12-(*)-(+)90-12						
			18	457.2	Prefix(†)-18-(*)-(+)90-12						
			24	609.6	Prefix(†)-24-(*)-(+)90-12						
			30	762	Prefix(†)-30-(*)-(+)90-12						
			36	914.4	Prefix(†)-36-(*)-(+)90-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)90-24	24 609.60	24 609.60	27⅝ 701.68	27⅝ 701.68	28³⁄₁₆ 715.96	28³⁄₁₆ 715.96
			9	228.6	Prefix(†)-09-(*)-(+)90-24						
			12	304.8	Prefix(†)-12-(*)-(+)90-24						
			18	457.2	Prefix(†)-18-(*)-(+)90-24						
			24	609.6	Prefix(†)-24-(*)-(+)90-24						
			30	762	Prefix(†)-30-(*)-(+)90-24						
			36	914.4	Prefix(†)-36-(*)-(+)90-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-24						
Inside bend	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)90-36	36 914.40	36 914.40	39⅝ 1006.48	39⅝ 1006.48	40³⁄₁₆ 1020.76	40³⁄₁₆ 1020.76
			9	228.6	Prefix(†)-09-(*)-(+)90-36						
			12	304.8	Prefix(†)-12-(*)-(+)90-36						
			18	457.2	Prefix(†)-18-(*)-(+)90-36						
			24	609.6	Prefix(†)-24-(*)-(+)90-36						
			30	762	Prefix(†)-30-(*)-(+)90-36						
			36	914.4	Prefix(†)-36-(*)-(+)90-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-36						
	48	1,219.2	6	152.4	Prefix(†)-06-(*)-(+)90-48	48 1219.20	48 1219.20	51⅝ 1311.28	51⅝ 1311.28	52³⁄₁₆ 1325.56	52³⁄₁₆ 1325.56
			9	228.6	Prefix(†)-09-(*)-(+)90-48						
			12	304.8	Prefix(†)-12-(*)-(+)90-48						
			18	457.2	Prefix(†)-18-(*)-(+)90-48						
			24	609.6	Prefix(†)-24-(*)-(+)90-48						
			30	762	Prefix(†)-30-(*)-(+)90-48						
			36	914.4	Prefix(†)-36-(*)-(+)90-48						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-48						

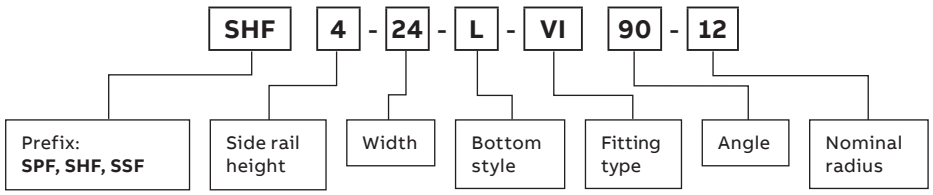






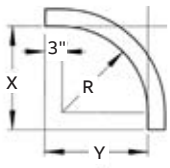
(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.

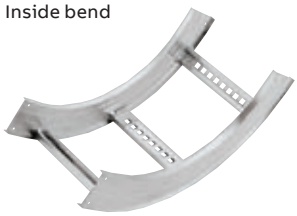
Fitting number selection

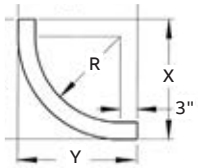


90° Vertical bend (continued)

	Nominal Radius		Nominal Width			(+) VI side rail					
						5" (127mm)		6" (152.4mm)		7" (177.8mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)90-12	17 3/16 436.56	17 3/16 436.56	18 3/16 461.96	18 3/16 461.96	19 3/16 487.36	19 3/16 487.36
			9	228.6	Prefix(†)-09-(*)-(+)90-12						
			12	304.8	Prefix(†)-12-(*)-(+)90-12						
			18	457.2	Prefix(†)-18-(*)-(+)90-12						
			24	609.6	Prefix(†)-24-(*)-(+)90-12						
			30	762	Prefix(†)-30-(*)-(+)90-12						
			36	914.4	Prefix(†)-36-(*)-(+)90-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)90-24	28 3/16 715.96	28 3/16 715.96	30 3/16 766.76	30 3/16 766.76	31 3/16 792.16	31 3/16 792.16
			9	228.6	Prefix(†)-09-(*)-(+)90-24						
			12	304.8	Prefix(†)-12-(*)-(+)90-24						
			18	457.2	Prefix(†)-18-(*)-(+)90-24						
			24	609.6	Prefix(†)-24-(*)-(+)90-24						
			30	762	Prefix(†)-30-(*)-(+)90-24						
			36	914.4	Prefix(†)-36-(*)-(+)90-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-24						
Inside bend	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)90-36	40 3/16 1020.76	40 3/16 1020.76	42 3/16 1071.56	42 3/16 1071.56	43 3/16 1046.16	43 3/16 1046.16
			9	228.6	Prefix(†)-09-(*)-(+)90-36						
			12	304.8	Prefix(†)-12-(*)-(+)90-36						
			18	457.2	Prefix(†)-18-(*)-(+)90-36						
			24	609.6	Prefix(†)-24-(*)-(+)90-36						
			30	762	Prefix(†)-30-(*)-(+)90-36						
			36	914.4	Prefix(†)-36-(*)-(+)90-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-36						
	48	1,219.2	6	152.4	Prefix(†)-06-(*)-(+)90-48	53 3/16 1350.96	53 3/16 1350.96	54 3/16 1376.36	54 3/16 1376.36	55 3/16 1401.76	55 3/16 1401.76
			9	228.6	Prefix(†)-09-(*)-(+)90-48						
			12	304.8	Prefix(†)-12-(*)-(+)90-48						
			18	457.2	Prefix(†)-18-(*)-(+)90-48						
			24	609.6	Prefix(†)-24-(*)-(+)90-48						
			30	762	Prefix(†)-30-(*)-(+)90-48						
			36	914.4	Prefix(†)-36-(*)-(+)90-48						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-48						







(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.

*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

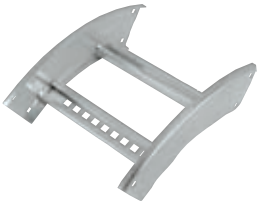
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

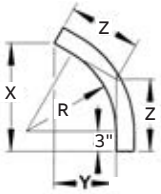
Metallic - Steel fittings

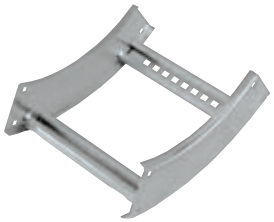
60° Vertical bend fittings

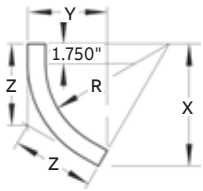
60° Vertical bend

	Nominal Radius		Nominal Width			(+) VO side rail 3⅝" (88.9mm) - 7" (177.8mm)			(+) VI side rail 3½" (88.9mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)60-12	10⅜ 263.53	6 152.40	6 15/16 176.21	13½ 342.90	9⅝ 244.48	9 228.60
			9	228.6	Prefix(†)-09-(*)-(+)60-12						
			12	304.8	Prefix(†)-12-(*)-(+)60-12						
			18	457.2	Prefix(†)-18-(*)-(+)60-12						
			24	609.6	Prefix(†)-24-(*)-(+)60-12						
			30	762	Prefix(†)-30-(*)-(+)60-12						
			36	914.4	Prefix(†)-36-(*)-(+)60-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)60-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)60-24	20 13/16 528.64	12 304.80	13⅞ 352.43	23 15/16 608.01	15⅝ 396.88	15 15/16 404.81
			9	228.6	Prefix(†)-09-(*)-(+)60-24						
			12	304.8	Prefix(†)-12-(*)-(+)60-24						
			18	457.2	Prefix(†)-18-(*)-(+)60-24						
			24	609.6	Prefix(†)-24-(*)-(+)60-24						
			30	762	Prefix(†)-30-(*)-(+)60-24						
			36	914.4	Prefix(†)-36-(*)-(+)60-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)60-24						
Inside bend	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)60-36	31 3/16 792.16	18 457.20	20 13/16 528.64	34 5/16 871.54	21⅝ 549.28	22⅞ 581.03
			9	228.6	Prefix(†)-09-(*)-(+)60-36						
			12	304.8	Prefix(†)-12-(*)-(+)60-36						
			18	457.2	Prefix(†)-18-(*)-(+)60-36						
			24	609.6	Prefix(†)-24-(*)-(+)60-36						
			30	762	Prefix(†)-30-(*)-(+)60-36						
			36	914.4	Prefix(†)-36-(*)-(+)60-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)60-36						
	48	1,219.2	6	152.4	Prefix(†)-06-(*)-(+)60-48	41 9/16 1055.69	24 609.60	27 11/16 703.26	44 11/16 1135.06	27⅝ 701.68	29 13/16 757.24
			9	228.6	Prefix(†)-09-(*)-(+)60-48						
			12	304.8	Prefix(†)-12-(*)-(+)60-48						
			18	457.2	Prefix(†)-18-(*)-(+)60-48						
			24	609.6	Prefix(†)-24-(*)-(+)60-48						
			30	762	Prefix(†)-30-(*)-(+)60-48						
			36	914.4	Prefix(†)-36-(*)-(+)60-48						
			42	1,066.8	Prefix(†)-42-(*)-(+)60-48						



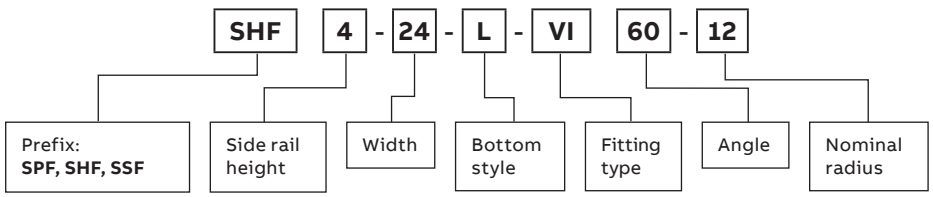






(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.

Fitting number selection



—

60° Vertical bend (continued)

Nominal Radius		Nominal Width			(+) VI side rail											
					4" (101.6mm)			5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-(+)60-12	14 355.60	10 3/16 258.76	9 3/8 238.13	14 7/8 377.83	11 3/16 284.16	9 15/16 236.54	15 3/4 400.05	12 3/16 309.56	10 1/2 266.70	16 5/8 422.28	13 3/16 334.96	11 1/16 280.99
		9	228.6	Prefix(†)-09-(*)-(+)60-12												
		12	304.8	Prefix(†)-12-(*)-(+)60-12												
		18	457.2	Prefix(†)-18-(*)-(+)60-12												
		24	609.6	Prefix(†)-24-(*)-(+)60-12												
		30	762	Prefix(†)-30-(*)-(+)60-12												
		36	914.4	Prefix(†)-36-(*)-(+)60-12												
		42	1,066.8	Prefix(†)-42-(*)-(+)60-12												
24	609.6	6	152.4	Prefix(†)-06-(*)-(+)60-24	24 7/16 620.71	16 3/16 411.16	16 1/4 412.75	25 1/4 641.35	17 3/16 436.56	16 7/8 428.63	26 1/8 663.58	18 3/16 461.96	17 7/16 442.91	27 685.80	19 3/16 487.36	18 457.20
		9	228.6	Prefix(†)-09-(*)-(+)60-24												
		12	304.8	Prefix(†)-12-(*)-(+)60-24												
		18	457.2	Prefix(†)-18-(*)-(+)60-24												
		24	609.6	Prefix(†)-24-(*)-(+)60-24												
		30	762	Prefix(†)-30-(*)-(+)60-24												
		36	914.4	Prefix(†)-36-(*)-(+)60-24												
		42	1,066.8	Prefix(†)-42-(*)-(+)60-24												
36	914.4	6	152.4	Prefix(†)-06-(*)-(+)60-36	34 13/16 884.24	22 3/4 577.85	23 3/16 588.96	35 11/16 906.46	23 3/16 588.96	23 3/4 603.25	36 1/2 927.10	24 3/16 614.36	24 3/8 619.13	37 7/16 950.91	25 3/16 639.76	24 15/16 633.41
		9	228.6	Prefix(†)-09-(*)-(+)60-36												
		12	304.8	Prefix(†)-12-(*)-(+)60-36												
		18	457.2	Prefix(†)-18-(*)-(+)60-36												
		24	609.6	Prefix(†)-24-(*)-(+)60-36												
		30	762	Prefix(†)-30-(*)-(+)60-36												
		36	914.4	Prefix(†)-36-(*)-(+)60-36												
		42	1,066.8	Prefix(†)-42-(*)-(+)60-36												
48	1,219.2	6	152.4	Prefix(†)-06-(*)-(+)60-48	45 3/16 1147.76	28 3/16 715.96	30 1/8 765.18	46 1/16 1169.99	29 3/16 741.36	30 11/16 779.46	46 15/16 1192.21	30 3/16 766.76	31 1/8 790.58	47 13/16 1214.44	31 3/16 792.16	31 7/8 809.63
		9	228.6	Prefix(†)-09-(*)-(+)60-48												
		12	304.8	Prefix(†)-12-(*)-(+)60-48												
		18	457.2	Prefix(†)-18-(*)-(+)60-48												
		24	609.6	Prefix(†)-24-(*)-(+)60-48												
		30	762	Prefix(†)-30-(*)-(+)60-48												
		36	914.4	Prefix(†)-36-(*)-(+)60-48												
		42	1,066.8	Prefix(†)-42-(*)-(+)60-48												

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.

—

*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

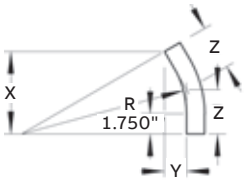
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

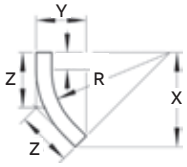
Metallic - Steel fittings

45° Vertical bends fittings

45° Vertical bend

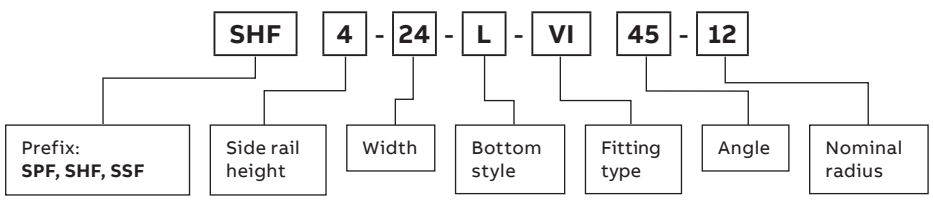
	Nominal Radius		Nominal Width			(+) VO side rail 3⅝" (88.9mm) - 7" (177.8mm)			(+) VI side rail 3½" (88.9mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)45-12	8½ 215.90	3½ 88.90	5 127.00	11¹⁄₁₆ 283.63	7⅛ 180.98	6½ 165.10
			9	228.6	Prefix(†)-09-(*)-(+)45-12						
			12	304.8	Prefix(†)-12-(*)-(+)45-12						
			18	457.2	Prefix(†)-18-(*)-(+)45-12						
			24	609.6	Prefix(†)-24-(*)-(+)45-12						
			30	762	Prefix(†)-30-(*)-(+)45-12						
			36	914.4	Prefix(†)-36-(*)-(+)45-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)45-24	17 431.80	7 177.80	9¹⁵⁄₁₆ 252.41	19½ 495.30	10⅝ 269.88	11⁷⁄₁₆ 290.51
			9	228.6	Prefix(†)-09-(*)-(+)45-24						
			12	304.8	Prefix(†)-12-(*)-(+)45-24						
			18	457.2	Prefix(†)-18-(*)-(+)45-24						
			24	609.6	Prefix(†)-24-(*)-(+)45-24						
			30	762	Prefix(†)-30-(*)-(+)45-24						
			36	914.4	Prefix(†)-36-(*)-(+)45-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-24						
Inside bend	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)45-36	25⁷⁄₁₆ 646.11	10⁹⁄₁₆ 268.29	14¹⁵⁄₁₆ 379.41	28 711.20	14³⁄₁₆ 360.36	16⁷⁄₁₆ 417.51
			9	228.6	Prefix(†)-09-(*)-(+)45-36						
			12	304.8	Prefix(†)-12-(*)-(+)45-36						
			18	457.2	Prefix(†)-18-(*)-(+)45-36						
			24	609.6	Prefix(†)-24-(*)-(+)45-36						
			30	762	Prefix(†)-30-(*)-(+)45-36						
			36	914.4	Prefix(†)-36-(*)-(+)45-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-36						
	48	1,219.2	6	152.4	Prefix(†)-06-(*)-(+)45-48	33¹⁵⁄₁₆ 862.01	14¹⁄₁₆ 357.19	19⅞ 504.83	36½ 927.1	17¹¹⁄₁₆ 449.26	21⅜ 542.93
			9	228.6	Prefix(†)-09-(*)-(+)45-48						
			12	304.8	Prefix(†)-12-(*)-(+)45-48						
			18	457.2	Prefix(†)-18-(*)-(+)45-48						
			24	609.6	Prefix(†)-24-(*)-(+)45-48						
			30	762	Prefix(†)-30-(*)-(+)45-48						
			36	914.4	Prefix(†)-36-(*)-(+)45-48						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-48						





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.

Fitting number selection



45° Vertical bend (continued)

Nominal Radius		Nominal Width			(+) VI side rail											
					4" (101.6mm)			5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-(+)45-12	11 7/16 290.51	7 11/16 195.26	6 11/16 169.86	12 1/8 307.98	8 11/16 220.66	7 1/8 180.98	12 7/8 327.03	9 11/16 246.06	7 1/2 190.50	13 9/16 344.49	10 11/16 271.46	7 15/16 201.61
		9	228.6	Prefix(†)-09-(*)-(+)45-12												
		12	304.8	Prefix(†)-12-(*)-(+)45-12												
		18	457.2	Prefix(†)-18-(*)-(+)45-12												
		24	609.6	Prefix(†)-24-(*)-(+)45-12												
		30	762	Prefix(†)-30-(*)-(+)45-12												
		36	914.4	Prefix(†)-36-(*)-(+)45-12												
		42	1,066.8	Prefix(†)-42-(*)-(+)45-12												
24	609.6	6	152.4	Prefix(†)-06-(*)-(+)45-24	19 15/16 506.41	11 3/16 284.16	11 11/16 296.86	20 5/8 523.88	12 3/16 309.56	12 1/16 306.39	21 3/8 542.93	13 3/16 334.96	12 1/2 317.50	22 1/16 560.39	14 3/16 360.36	12 15/16 328.61
		9	228.6	Prefix(†)-09-(*)-(+)45-24												
		12	304.8	Prefix(†)-12-(*)-(+)45-24												
		18	457.2	Prefix(†)-18-(*)-(+)45-24												
		24	609.6	Prefix(†)-24-(*)-(+)45-24												
		30	762	Prefix(†)-30-(*)-(+)45-24												
		36	914.4	Prefix(†)-36-(*)-(+)45-24												
		42	1,066.8	Prefix(†)-42-(*)-(+)45-24												
36	914.4	6	152.4	Prefix(†)-06-(*)-(+)45-36	28 7/16 722.31	14 3/4 374.65	16 5/8 422.28	29 1/8 739.78	15 3/4 400.05	17 1/16 433.39	29 13/16 757.24	16 3/16 411.16	17 1/2 444.50	30 1/2 774.70	17 3/4 450.85	17 7/8 454.03
		9	228.6	Prefix(†)-09-(*)-(+)45-36												
		12	304.8	Prefix(†)-12-(*)-(+)45-36												
		18	457.2	Prefix(†)-18-(*)-(+)45-36												
		24	609.6	Prefix(†)-24-(*)-(+)45-36												
		30	762	Prefix(†)-30-(*)-(+)45-36												
		36	914.4	Prefix(†)-36-(*)-(+)45-36												
		42	1,066.8	Prefix(†)-42-(*)-(+)45-36												
48	1,219.2	6	152.4	Prefix(†)-06-(*)-(+)45-48	36 7/8 936.63	18 1/4 463.55	21 5/8 549.28	37 5/8 955.68	19 1/4 488.95	22 558.8	39 5/16 998.54	20 1/4 514.35	22 7/16 569.91	39 990.6	21 1/4 539.75	22 7/8 581.03
		9	228.6	Prefix(†)-09-(*)-(+)45-48												
		12	304.8	Prefix(†)-12-(*)-(+)45-48												
		18	457.2	Prefix(†)-18-(*)-(+)45-48												
		24	609.6	Prefix(†)-24-(*)-(+)45-48												
		30	762	Prefix(†)-30-(*)-(+)45-48												
		36	914.4	Prefix(†)-36-(*)-(+)45-48												
		42	1,066.8	Prefix(†)-42-(*)-(+)45-48												

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.

*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

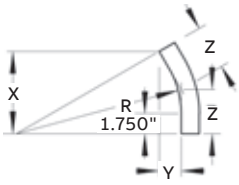
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

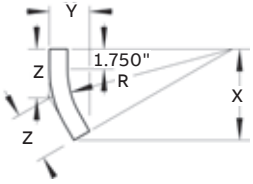
Metallic - Steel fittings

30° Vertical bend fittings

30° Vertical bend

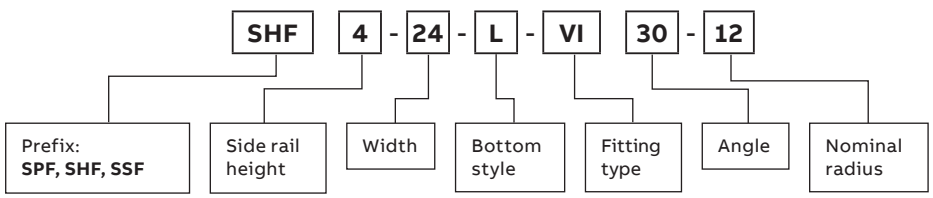
	Nominal Radius		Nominal Width			(+) VO side rail 3⅝" (88.9mm) - 7" (177.8mm)			(+) VI side rail 3½" (88.9mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)30-12	6 152.40	1⅝ 41.28	3³⁄₁₆ 80.96	7¹³⁄₁₆ 198.44	5¼ 133.35	4³⁄₁₆ 106.36
			9	228.6	Prefix(†)-09-(*)-(+)30-12						
			12	304.8	Prefix(†)-12-(*)-(+)30-12						
			18	457.2	Prefix(†)-18-(*)-(+)30-12						
			24	609.6	Prefix(†)-24-(*)-(+)30-12						
			30	762	Prefix(†)-30-(*)-(+)30-12						
			36	914.4	Prefix(†)-36-(*)-(+)30-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)30-24	12 304.80	3³⁄₁₆ 77.79	6⁷⁄₁₆ 163.51	13¹³⁄₁₆ 350.84	6¹³⁄₁₆ 173.04	7⅜ 187.33
			9	228.6	Prefix(†)-09-(*)-(+)30-24						
			12	304.8	Prefix(†)-12-(*)-(+)30-24						
			18	457.2	Prefix(†)-18-(*)-(+)30-24						
			24	609.6	Prefix(†)-24-(*)-(+)30-24						
			30	762	Prefix(†)-30-(*)-(+)30-24						
			36	914.4	Prefix(†)-36-(*)-(+)30-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-24						
Inside bend	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)30-36	18 457.20	4¹³⁄₁₆ 122.24	9⅝ 244.48	19¹³⁄₁₆ 503.24	8⁷⁄₁₆ 214.31	10⅝ 269.88
			9	228.6	Prefix(†)-09-(*)-(+)30-36						
			12	304.8	Prefix(†)-12-(*)-(+)30-36						
			18	457.2	Prefix(†)-18-(*)-(+)30-36						
			24	609.6	Prefix(†)-24-(*)-(+)30-36						
			30	762	Prefix(†)-30-(*)-(+)30-36						
			36	914.4	Prefix(†)-36-(*)-(+)30-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-36						
	48	1,219.2	6	152.4	Prefix(†)-06-(*)-(+)30-48	24 609.60	6⁷⁄₁₆ 163.51	12⅞ 327.03	25¹³⁄₁₆ 655.64	10¹⁄₁₆ 255.59	13¹³⁄₁₆ 350.84
			9	228.6	Prefix(†)-09-(*)-(+)30-48						
			12	304.8	Prefix(†)-12-(*)-(+)30-48						
			18	457.2	Prefix(†)-18-(*)-(+)30-48						
			24	609.6	Prefix(†)-24-(*)-(+)30-48						
			30	762	Prefix(†)-30-(*)-(+)30-48						
			36	914.4	Prefix(†)-36-(*)-(+)30-48						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-48						





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.

Fitting number selection



—

30° Vertical bend (continued)

(+) VI side rail

Nominal Radius		Nominal Width			4" (101.6mm)			5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	AUF(†)-06-(*)-(+)30-12	8 1/16 204.79	15 13/16 401.64	4 5/16 109.54	8 9/16 217.49	6 13/16 173.04	4 5/8 117.48	9 1/16 230.19	7 13/16 198.44	4 7/8 123.83	9 9/16 242.89	8 13/16 223.84	5 1/8 130.18
		9	228.6	AUF(†)-09-(*)-(+)30-12												
		12	304.8	AUF(†)-12-(*)-(+)30-12												
		18	457.2	AUF(†)-18-(*)-(+)30-12												
		24	609.6	AUF(†)-24-(*)-(+)30-12												
		30	762	AUF(†)-30-(*)-(+)30-12												
		36	914.4	AUF(†)-36-(*)-(+)30-12												
		42	1,066.8	AUF(†)-42-(*)-(+)30-12												
24	609.6	6	152.4	AUF(†)-06-(*)-(+)30-24	14 1/16 357.19	7 3/8 187.33	7 9/16 192.09	14 9/16 369.89	8 3/8 212.73	7 13/16 198.44	15 1/16 382.59	9 3/8 238.13	8 1/16 204.79	15 9/16 395.29	10 3/8 263.53	8 3/8 212.73
		9	228.6	AUF(†)-09-(*)-(+)30-24												
		12	304.8	AUF(†)-12-(*)-(+)30-24												
		18	457.2	AUF(†)-18-(*)-(+)30-24												
		24	609.6	AUF(†)-24-(*)-(+)30-24												
		30	762	AUF(†)-30-(*)-(+)30-24												
		36	914.4	AUF(†)-36-(*)-(+)30-24												
		42	1,066.8	AUF(†)-42-(*)-(+)30-24												
36	914.4	6	152.4	AUF(†)-06-(*)-(+)30-36	20 1/16 509.59	9 228.60	10 3/4 273.05	20 1/16 509.59	10 254.00	11 1/16 280.99	21 1/16 534.99	11 279.40	11 5/16 287.34	21 9/16 547.69	12 304.80	11 9/16 293.69
		9	228.6	AUF(†)-09-(*)-(+)30-36												
		12	304.8	AUF(†)-12-(*)-(+)30-36												
		18	457.2	AUF(†)-18-(*)-(+)30-36												
		24	609.6	AUF(†)-24-(*)-(+)30-36												
		30	762	AUF(†)-30-(*)-(+)30-36												
		36	914.4	AUF(†)-36-(*)-(+)30-36												
		42	1,066.8	AUF(†)-42-(*)-(+)30-36												
48	1,219.2	6	152.4	AUF(†)-06-(*)-(+)30-48	26 1/16 661.99	10 5/8 269.88	14 355.60	26 9/16 674.69	11 5/8 295.28	14 1/4 361.95	27 1/16 687.39	12 5/8 320.68	14 1/2 368.30	27 9/16 700.09	13 5/8 346.08	14 13/16 376.24
		9	228.6	AUF(†)-09-(*)-(+)30-48												
		12	304.8	AUF(†)-12-(*)-(+)30-48												
		18	457.2	AUF(†)-18-(*)-(+)30-48												
		24	609.6	AUF(†)-24-(*)-(+)30-48												
		30	762	AUF(†)-30-(*)-(+)30-48												
		36	914.4	AUF(†)-36-(*)-(+)30-48												
		42	1,066.8	AUF(†)-42-(*)-(+)30-48												

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No. Includes one pair of splice plates with hardware.

—

*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

Metallic - Steel fittings

Reducer fittings

Offset reducer – left

Reducer – left

Offset reducer – left

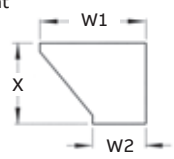
Horizontal reducer

Selection guide

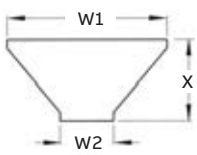
- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Tray widths W1: 42, 36, 30, 24, 18, 12, 9" (*mm)
- Tray widths W2: 36, 30, 24, 18, 12, 9, 6" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

Widths W1 (in)	W1 (mm)	W2 (in)	W2 (mm)	Left reducer Cat. No.	Dim. X (in)	Dim. X (mm)	Straight reducer (concentric) Cat. No.	Dim. X (in)	Dim. X (mm)	Right reducer Cat. No.	Dim. X (in)	Dim. X (mm)
42	1,066.8	36	914.4	Prefix(†)-42-36-(*)-HLR	15 7/16	392.11	Prefix(†)-42-36-(*)-HSR	13 3/4	349.25	Prefix(†)-42-36-(*)-HRR	15 7/16	392.11
		30	762	Prefix(†)-42-30-(*)-HLR	18 5/16	465.14	Prefix(†)-42-30-(*)-HSR	15 7/16	392.11	Prefix(†)-42-30-(*)-HRR	18 15/16	465.14
		24	609.6	Prefix(†)-42-24-(*)-HLR	22 3/8	568.33	Prefix(†)-42-24-(*)-HSR	17 3/16	436.56	Prefix(†)-42-24-(*)-HRR	22 3/8	568.33
		18	457.2	Prefix(†)-42-18-(*)-HLR	25 7/8	657.23	Prefix(†)-42-18-(*)-HSR	18 5/16	465.14	Prefix(†)-42-18-(*)-HRR	25 7/8	657.23
		12	304.8	Prefix(†)-42-12-(*)-HLR	29 5/16	744.54	Prefix(†)-42-12-(*)-HSR	20 5/8	523.88	Prefix(†)-42-12-(*)-HRR	29 5/16	744.54
		9	228.6	Prefix(†)-42-09-(*)-HLR	31 1/16	788.99	Prefix(†)-42-09-(*)-HSR	21 1/2	546.10	Prefix(†)-42-09-(*)-HRR	31 1/16	788.99
		6	152.4	Prefix(†)-42-06-(*)-HLR	32 3/4	831.85	Prefix(†)-42-06-(*)-HSR	22 3/8	568.33	Prefix(†)-42-06-(*)-HRR	32 3/4	831.85
36	914.4	30	762	Prefix(†)-36-30-(*)-HLR	15 7/16	392.11	Prefix(†)-36-30-(*)-HSR	13 3/4	349.25	Prefix(†)-36-30-(*)-HRR	15 7/16	392.11
		24	609.6	Prefix(†)-36-24-(*)-HLR	18 15/16	481.01	Prefix(†)-36-24-(*)-HSR	15 7/16	392.11	Prefix(†)-36-24-(*)-HRR	18 15/16	481.01
		18	457.2	Prefix(†)-36-18-(*)-HLR	22 3/8	568.33	Prefix(†)-36-18-(*)-HSR	17 3/8	441.33	Prefix(†)-36-18-(*)-HRR	22 3/8	568.33
		12	304.8	Prefix(†)-36-12-(*)-HLR	25 7/8	657.23	Prefix(†)-36-12-(*)-HSR	18 5/16	465.14	Prefix(†)-36-12-(*)-HRR	25 7/8	657.23
		9	228.6	Prefix(†)-36-09-(*)-HLR	27 9/16	700.09	Prefix(†)-36-09-(*)-HSR	19 13/16	503.24	Prefix(†)-36-09-(*)-HRR	27 9/16	700.09
		6	152.4	Prefix(†)-36-06-(*)-HLR	29 5/16	744.54	Prefix(†)-36-06-(*)-HSR	20 11/16	525.46	Prefix(†)-36-06-(*)-HRR	29 5/16	744.54
30	762	24	609.6	Prefix(†)-30-24-(*)-HLR	15 7/16	392.11	Prefix(†)-30-24-(*)-HSR	13 3/4	349.25	Prefix(†)-30-24-(*)-HRR	15 7/16	392.11
		18	457.2	Prefix(†)-30-18-(*)-HLR	18 15/16	481.01	Prefix(†)-30-18-(*)-HSR	15 7/16	392.11	Prefix(†)-30-18-(*)-HRR	18 15/16	481.01
		12	304.8	Prefix(†)-30-12-(*)-HLR	22 3/8	568.33	Prefix(†)-30-12-(*)-HSR	17 3/16	436.56	Prefix(†)-30-12-(*)-HRR	22 3/8	568.33
		9	228.6	Prefix(†)-30-09-(*)-HLR	24 1/8	612.78	Prefix(†)-30-09-(*)-HSR	18 1/16	458.79	Prefix(†)-30-09-(*)-HRR	24 1/8	612.78
		6	152.4	Prefix(†)-30-06-(*)-HLR	25 7/8	657.23	Prefix(†)-30-06-(*)-HSR	18 15/16	481.01	Prefix(†)-30-06-(*)-HRR	25 7/8	657.23
24	609.6	18	457.2	Prefix(†)-24-18-(*)-HLR	15 7/16	249.24	Prefix(†)-24-18-(*)-HSR	13 3/4	349.25	Prefix(†)-24-18-(*)-HRR	15 7/16	249.24
		12	304.8	Prefix(†)-24-12-(*)-HLR	18 15/16	481.01	Prefix(†)-24-12-(*)-HSR	15 7/16	392.11	Prefix(†)-24-12-(*)-HRR	18 15/16	481.01
		9	228.6	Prefix(†)-24-09-(*)-HLR	20 11/16	525.46	Prefix(†)-24-09-(*)-HSR	16 5/16	414.34	Prefix(†)-24-09-(*)-HRR	20 11/16	525.46
		6	152.4	Prefix(†)-24-06-(*)-HLR	22 3/8	568.33	Prefix(†)-24-06-(*)-HSR	17 3/16	436.56	Prefix(†)-24-06-(*)-HRR	22 3/8	568.33
18	457.2	12	304.8	Prefix(†)-18-12-(*)-HLR	15 7/16	392.11	Prefix(†)-18-12-(*)-HSR	13 3/4	349.25	Prefix(†)-18-12-(*)-HRR	15 7/16	392.11
		9	228.6	Prefix(†)-18-09-(*)-HLR	17 3/16	436.56	Prefix(†)-18-09-(*)-HSR	14 5/8	371.48	Prefix(†)-18-09-(*)-HRR	17 3/16	436.56
		6	152.4	Prefix(†)-18-06-(*)-HLR	18 15/16	481.01	Prefix(†)-18-06-(*)-HSR	15 7/16	392.11	Prefix(†)-18-06-(*)-HRR	18 15/16	481.01
12	304.8	9	228.6	Prefix(†)-12-09-(*)-HLR	13 3/4	349.25	Prefix(†)-12-09-(*)-HSR	12 7/8	327.03	Prefix(†)-12-09-(*)-HRR	13 3/4	349.25
		6	152.4	Prefix(†)-12-06-(*)-HLR	15 7/16	392.11	Prefix(†)-12-06-(*)-HSR	13 3/4	349.25	Prefix(†)-12-06-(*)-HRR	15 7/16	392.11
9	1,066.8	6	152.4	Prefix(†)-09-06-(*)-HLR	13 3/4	349.25	Prefix(†)-09-06-(*)-HSR	12 7/8	327.03	Prefix(†)-09-06-(*)-HRR	13 3/4	349.25

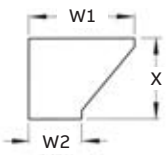
Offset reducer – right



Reducer – left



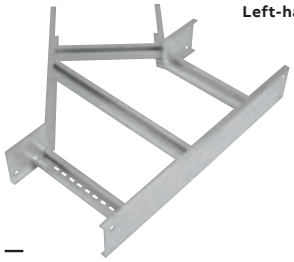
Offset reducer – left



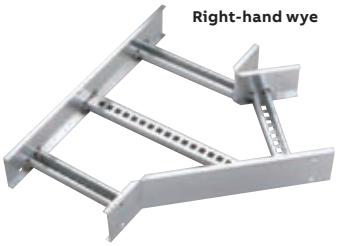
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.

Metallic - Steel fittings

45° Horizontal wye fittings



Left-hand wye



Right-hand wye

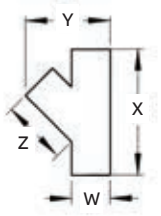
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

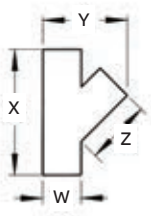
45° Horizontal wye

Width (in)	(mm)	Left-hand wye Cat. No.	Right-hand wye Cat. No.	Dimensions X (in)	X(mm)	Y (in)	Y(mm)	Z (in)	Z (mm)
6	152.4	Prefix(†)-06-(*)-HYL	Prefix(†)-06-(*)-HYR	18 5/16	465.14	14 13/16	376.24	12 7/16	315.91
9	228.6	Prefix(†)-09-(*)-HYL	Prefix(†)-09-(*)-HYR	22 1/2	571.50	19 15/16	506.41	15 7/16	392.11
12	304.8	Prefix(†)-12-(*)-HYL	Prefix(†)-12-(*)-HYR	26 3/4	679.45	25	635.00	18 7/16	468.31
18	457.2	Prefix(†)-18-(*)-HYL	Prefix(†)-18-(*)-HYR	35 1/4	895.35	35 1/4	895.35	24 7/16	620.71
24	609.6	Prefix(†)-24-(*)-HYL	Prefix(†)-24-(*)-HYR	43 1/2	1104.90	45 1/2	1155.70	30 7/16	773.11
30	762	Prefix(†)-30-(*)-HYL	Prefix(†)-30-(*)-HYR	52 1/4	1327.15	55 3/4	1416.05	36 7/16	925.51
36	914.4	Prefix(†)-36-(*)-HYL	Prefix(†)-36-(*)-HYR	60 11/16	1541.46	66	1676.40	42 7/16	1077.91
42	1,066.8	Prefix(†)-42-(*)-HYL	Prefix(†)-42-(*)-HYR	69 3/16	1757.36	76 1/4	1936.75	45 7/16	1154.11

Left-hand wye

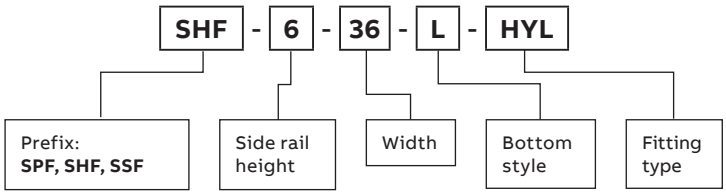


Right-hand wye



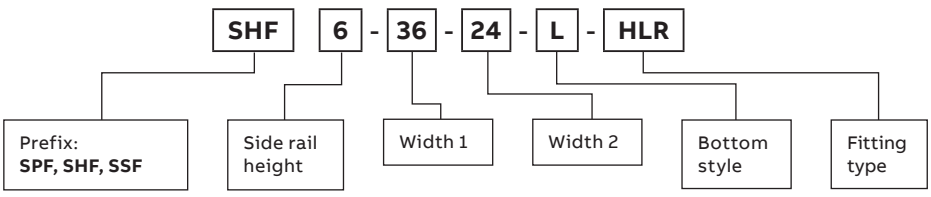
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.

Fitting number selection (45° Horizontal wye)



*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Fitting number selection (Horizontal reducer – see page 184)

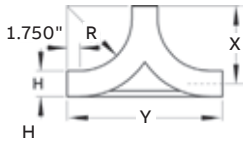


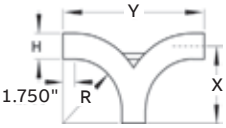
Metallic - Steel fittings

Vertical tee up/down fittings

Vertical tee up/down

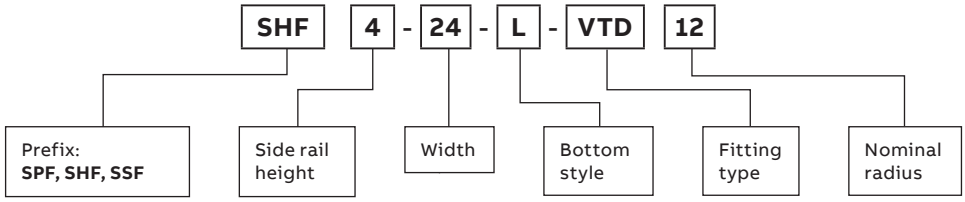
	Nominal Radius		Nominal Width				Side rail height "H"			
							3⅝" (92.1mm)		4" (101.6mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up	12	304.8	6	152.4	Prefix(†)-06-(*)-VTU12	Prefix(†)-06-(*)-VTD12	13 13/16 350.84	27 5/8 701.68	14 1/8 358.78	28 3/16 715.96
			9	228.6	Prefix(†)-09-(*)-VTU12	Prefix(†)-09-(*)-VTD12				
			12	304.8	Prefix(†)-12-(*)-VTU12	Prefix(†)-12-(*)-VTD12				
			18	457.2	Prefix(†)-18-(*)-VTU12	Prefix(†)-18-(*)-VTD12				
			24	609.6	Prefix(†)-24-(*)-VTU12	Prefix(†)-24-(*)-VTD12				
			30	762	Prefix(†)-30-(*)-VTU12	Prefix(†)-30-(*)-VTD12				
			36	914.4	Prefix(†)-36-(*)-VTU12	Prefix(†)-36-(*)-VTD12				
			42	1,066.8	Prefix(†)-42-(*)-VTU12	Prefix(†)-42-(*)-VTD12				
	24	609.6	6	152.4	Prefix(†)-06-(*)-VTU24	Prefix(†)-06-(*)-VTD24	25 13/16 655.64	51 5/8 1311.28	26 1/8 663.58	52 3/16 1325.56
			9	228.6	Prefix(†)-09-(*)-VTU24	Prefix(†)-09-(*)-VTD24				
			12	304.8	Prefix(†)-12-(*)-VTU24	Prefix(†)-12-(*)-VTD24				
			18	457.2	Prefix(†)-18-(*)-VTU24	Prefix(†)-18-(*)-VTD24				
			24	609.6	Prefix(†)-24-(*)-VTU24	Prefix(†)-24-(*)-VTD24				
			30	762	Prefix(†)-30-(*)-VTU24	Prefix(†)-30-(*)-VTD24				
			36	914.4	Prefix(†)-36-(*)-VTU24	Prefix(†)-36-(*)-VTD24				
			42	1,066.8	Prefix(†)-42-(*)-VTU24	Prefix(†)-42-(*)-VTD24				
Down	36	914.4	6	152.4	Prefix(†)-06-(*)-VTU36	Prefix(†)-06-(*)-VTD36	37 13/16 960.44	75 5/8 1920.88	38 1/8 968.38	76 3/16 1935.16
			9	228.6	Prefix(†)-09-(*)-VTU36	Prefix(†)-09-(*)-VTD36				
			12	304.8	Prefix(†)-12-(*)-VTU36	Prefix(†)-12-(*)-VTD36				
			18	457.2	Prefix(†)-18-(*)-VTU36	Prefix(†)-18-(*)-VTD36				
			24	609.6	Prefix(†)-24-(*)-VTU36	Prefix(†)-24-(*)-VTD36				
			30	762	Prefix(†)-30-(*)-VTU36	Prefix(†)-30-(*)-VTD36				
			36	914.4	Prefix(†)-36-(*)-VTU36	Prefix(†)-36-(*)-VTD36				
			42	1,066.8	Prefix(†)-42-(*)-VTU36	Prefix(†)-42-(*)-VTD36				
	48	1,219.2	6	152.4	Prefix(†)-06-(*)-VTU48	Prefix(†)-06-(*)-VTD48	49 13/16 1265.24	99 5/8 2530.48	50 1/8 1273.18	100 13/16 2544.76
			9	228.6	Prefix(†)-09-(*)-VTU48	Prefix(†)-09-(*)-VTD48				
			12	304.8	Prefix(†)-12-(*)-VTU48	Prefix(†)-12-(*)-VTD48				
			18	457.2	Prefix(†)-18-(*)-VTU48	Prefix(†)-18-(*)-VTD48				
			24	609.6	Prefix(†)-24-(*)-VTU48	Prefix(†)-24-(*)-VTD48				
			30	762	Prefix(†)-30-(*)-VTU48	Prefix(†)-30-(*)-VTD48				
			36	914.4	Prefix(†)-36-(*)-VTU48	Prefix(†)-36-(*)-VTD48				
			42	1,066.8	Prefix(†)-42-(*)-VTU48	Prefix(†)-42-(*)-VTD48				





(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.

Fitting number selection



—

Vertical tee up/down (continued)

Nominal Radius		Nominal Width				Side rail height "H"					
						5" (127mm)		6" (152.4mm)		7" (177.8mm)	
(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
12	304.6	6	152.4	Prefix(†)-06-(*)-VTU12	Prefix(†)-06-(*)-VTD12	14⅝ 371.48	29³⁄₁₆ 741.36	15⅛ 384.18	30³⁄₁₆ 766.76	15⅝ 396.88	31³⁄₁₆ 792.16
		9	228.6	Prefix(†)-09-(*)-VTU12	Prefix(†)-09-(*)-VTD12						
		12	304.8	Prefix(†)-12-(*)-VTU12	Prefix(†)-12-(*)-VTD12						
		18	457.2	Prefix(†)-18-(*)-VTU12	Prefix(†)-18-(*)-VTD12						
		24	609.6	Prefix(†)-24-(*)-VTU12	Prefix(†)-24-(*)-VTD12						
		30	762	Prefix(†)-30-(*)-VTU12	Prefix(†)-30-(*)-VTD12						
		36	914.4	Prefix(†)-36-(*)-VTU12	Prefix(†)-36-(*)-VTD12						
		42	1,066.8	Prefix(†)-42-(*)-VTU12	Prefix(†)-42-(*)-VTD12						
24	609.6	6	152.4	Prefix(†)-06-(*)-VTU24	Prefix(†)-06-(*)-VTD24	26⅝ 676.28	53³⁄₁₆ 1350.96	27⅛ 688.98	54³⁄₁₆ 1376.36	27⅝ 701.68	55³⁄₁₆ 1401.76
		9	228.6	Prefix(†)-09-(*)-VTU24	Prefix(†)-09-(*)-VTD24						
		12	304.8	Prefix(†)-12-(*)-VTU24	Prefix(†)-12-(*)-VTD24						
		18	457.2	Prefix(†)-18-(*)-VTU24	Prefix(†)-18-(*)-VTD24						
		24	609.6	Prefix(†)-24-(*)-VTU24	Prefix(†)-24-(*)-VTD24						
		30	762	Prefix(†)-30-(*)-VTU24	Prefix(†)-30-(*)-VTD24						
		36	914.4	Prefix(†)-36-(*)-VTU24	Prefix(†)-36-(*)-VTD24						
		42	1,066.8	Prefix(†)-42-(*)-VTU24	Prefix(†)-42-(*)-VTD24						
36	914.4	6	152.4	Prefix(†)-06-(*)-VTU36	Prefix(†)-06-(*)-VTD36	38⅝ 981.08	77³⁄₁₆ 1960.56	39⅛ 993.78	78³⁄₁₆ 1985.96	39⅝ 1006.48	79³⁄₁₆ 2011.36
		9	228.6	Prefix(†)-09-(*)-VTU36	Prefix(†)-09-(*)-VTD36						
		12	304.8	Prefix(†)-12-(*)-VTU36	Prefix(†)-12-(*)-VTD36						
		18	457.2	Prefix(†)-18-(*)-VTU36	Prefix(†)-18-(*)-VTD36						
		24	609.6	Prefix(†)-24-(*)-VTU36	Prefix(†)-24-(*)-VTD36						
		30	762	Prefix(†)-30-(*)-VTU36	Prefix(†)-30-(*)-VTD36						
		36	914.4	Prefix(†)-36-(*)-VTU36	Prefix(†)-36-(*)-VTD36						
		42	1,066.8	Prefix(†)-42-(*)-VTU36	Prefix(†)-42-(*)-VTD36						
48	1,219.2	6	152.4	Prefix(†)-06-(*)-VTU48	Prefix(†)-06-(*)-VTD48	50⅝ 1285.88	101³⁄₁₆ 2570.16	51⅛ 1298.58	102³⁄₁₆ 2595.56	51⅝ 1311.28	103³⁄₁₆ 2620.96
		9	228.6	Prefix(†)-09-(*)-VTU48	Prefix(†)-09-(*)-VTD48						
		12	304.8	Prefix(†)-12-(*)-VTU48	Prefix(†)-12-(*)-VTD48						
		18	457.2	Prefix(†)-18-(*)-VTU48	Prefix(†)-18-(*)-VTD48						
		24	609.6	Prefix(†)-24-(*)-VTU48	Prefix(†)-24-(*)-VTD48						
		30	762	Prefix(†)-30-(*)-VTU48	Prefix(†)-30-(*)-VTD48						
		36	914.4	Prefix(†)-36-(*)-VTU48	Prefix(†)-36-(*)-VTD48						
		42	1,066.8	Prefix(†)-42-(*)-VTU48	Prefix(†)-42-(*)-VTD48						

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.

—

*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

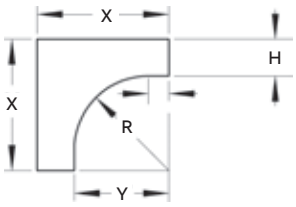
Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

Metallic - Steel fittings

Cable support fittings

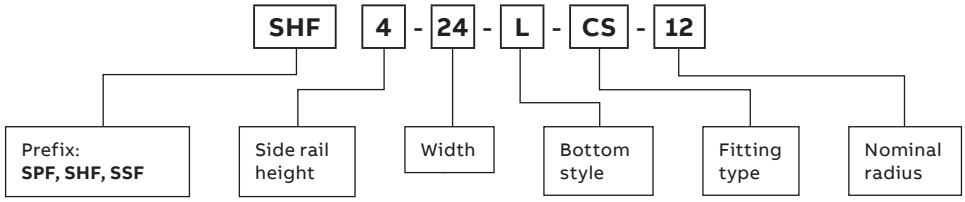
Cable support fitting



Nominal Radius		Nominal Width			Side rail height "H"		
					3⅝" (92.1mm)	4" (101.6mm)	5" (127mm)
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	X (in) / (mm)	X (in) / (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-CS12	15⅝ 396.88	16³⁄₁₆ 411.16	17³⁄₁₆ 436.56
		9	228.6	Prefix(†)-09-(*)-CS12			
		12	304.8	Prefix(†)-12-(*)-CS12			
		18	457.2	Prefix(†)-18-(*)-CS12			
		24	609.6	Prefix(†)-24-(*)-CS12			
		30	762	Prefix(†)-30-(*)-CS12			
		36	914.4	Prefix(†)-36-(*)-CS12			
		42	1,066.8	Prefix(†)-42-(*)-CS12			
24	609.6	6	152.4	Prefix(†)-06-(*)-CS24	27⅝ 701.68	28³⁄₁₆ 715.96	29³⁄₁₆ 741.36
		9	228.6	Prefix(†)-09-(*)-CS24			
		12	304.8	Prefix(†)-12-(*)-CS24			
		18	457.2	Prefix(†)-18-(*)-CS24			
		24	609.6	Prefix(†)-24-(*)-CS24			
		30	762	Prefix(†)-30-(*)-CS24			
		36	914.4	Prefix(†)-36-(*)-CS24			
		42	1,066.8	Prefix(†)-42-(*)-CS24			
36	914.4	6	152.4	Prefix(†)-06-(*)-CS36	39⅝ 1006.48	40³⁄₁₆ 1020.76	41³⁄₁₆ 1046.16
		9	228.6	Prefix(†)-09-(*)-CS36			
		12	304.8	Prefix(†)-12-(*)-CS36			
		18	457.2	Prefix(†)-18-(*)-CS36			
		24	609.6	Prefix(†)-24-(*)-CS36			
		30	762	Prefix(†)-30-(*)-CS36			
		36	914.4	Prefix(†)-36-(*)-CS36			
		42	1,066.8	Prefix(†)-42-(*)-CS36			
48	1,219.2	6	152.4	Prefix(†)-06-(*)-CS48	51⅝ 1311.28	52³⁄₁₆ 1325.56	53³⁄₁₆ 1350.96
		9	228.6	Prefix(†)-09-(*)-CS48			
		12	304.8	Prefix(†)-12-(*)-CS48			
		18	457.2	Prefix(†)-18-(*)-CS48			
		24	609.6	Prefix(†)-24-(*)-CS48			
		30	762	Prefix(†)-30-(*)-CS48			
		36	914.4	Prefix(†)-36-(*)-CS48			
		42	1,066.8	Prefix(†)-42-(*)-CS48			

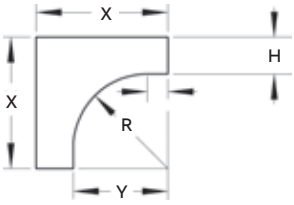
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.

Fitting number selection



Cable support fitting (continued)

Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Side rail height "H" 6" (152.4mm) X (in) / (mm)	Side rail height "H" 7" (177.8mm) X (in) / (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-CS12	18 3/16 461.96	19 3/16 487.36
		9	228.6	Prefix(†)-09-(*)-CS12		
		12	304.8	Prefix(†)-12-(*)-CS12		
		18	457.2	Prefix(†)-18-(*)-CS12		
		24	609.6	Prefix(†)-24-(*)-CS12		
		30	762	Prefix(†)-30-(*)-CS12		
		36	914.4	Prefix(†)-36-(*)-CS12		
		42	1,066.8	Prefix(†)-42-(*)-CS12		
24	609.6	6	152.4	Prefix(†)-06-(*)-CS24	30 3/16 766.76	31 3/16 792.16
		9	228.6	Prefix(†)-09-(*)-CS24		
		12	304.8	Prefix(†)-12-(*)-CS24		
		18	457.2	Prefix(†)-18-(*)-CS24		
		24	609.6	Prefix(†)-24-(*)-CS24		
		30	762	Prefix(†)-30-(*)-CS24		
		36	914.4	Prefix(†)-36-(*)-CS24		
		42	1,066.8	Prefix(†)-42-(*)-CS24		
36	914.4	6	152.4	Prefix(†)-06-(*)-CS36	42 3/16 1071.56	43 3/16 1096.96
		9	228.6	Prefix(†)-09-(*)-CS36		
		12	304.8	Prefix(†)-12-(*)-CS36		
		18	457.2	Prefix(†)-18-(*)-CS36		
		24	609.6	Prefix(†)-24-(*)-CS36		
		30	762	Prefix(†)-30-(*)-CS36		
		36	914.4	Prefix(†)-36-(*)-CS36		
		42	1,066.8	Prefix(†)-42-(*)-CS36		
48	1,219.2	6	152.4	Prefix(†)-06-(*)-CS48	54 3/16 1376.36	55 3/16 1401.76
		9	228.6	Prefix(†)-09-(*)-CS48		
		12	304.8	Prefix(†)-12-(*)-CS48		
		18	457.2	Prefix(†)-18-(*)-CS48		
		24	609.6	Prefix(†)-24-(*)-CS48		
		30	762	Prefix(†)-30-(*)-CS48		
		36	914.4	Prefix(†)-36-(*)-CS48		
		42	1,066.8	Prefix(†)-42-(*)-CS48		



(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.

*Dimension Conversion Table:
3" = 76.2mm
4" = 101.6mm
5" = 127mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Prefix: SPF (pregalv.), SHF (hot-dip), SSF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 3, 4, 5, 6, 7" (*mm)

Metallic - Steel
Helix™ cable tray fitting

01 Right-turn assembly
02 Left-turn assembly

The Helix cable tray fitting. Efficiency is in its DNA

Go from horizontal to vertical with maximum cable protection in minimum space
Making transitions from horizontal to vertical cable tray runs has never been easier or more efficient. The latest evolution in cable tray fittings, the Helix fitting assembly was developed specifically for use in confined areas. It allows installers to transition from horizontal to vertical surfaces in less time, using significantly less space.

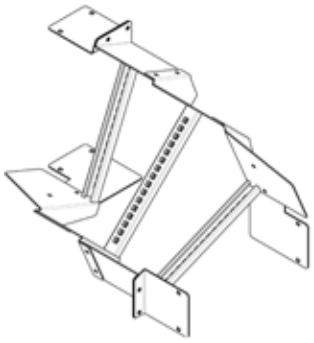
- Enables installation close to walls and other surfaces, eliminating the need for distance.
- Provides enhanced cable protection in confined spaces.
- Secures cables within fitting for clean, organized cable runs.
- Ideally suited for confined spaces – no need to distance cable runs from wall to make transition.
- Efficient cable protection in areas where conventional fittings will not fit.
- Convenient right- or left-turn configurations.
- Available in aluminum, pregalvanized steel and stainless steel; 12" (304.8mm) and 24" (609.6mm) widths, 6" (152.4mm) side rails.
- Delivered pre-assembled and ready to install; drastically reduces time spent configuring fittings on site.
- BIM models available upon request.

For more information view the online video:
www.tnb.com/pub/en/node/2027

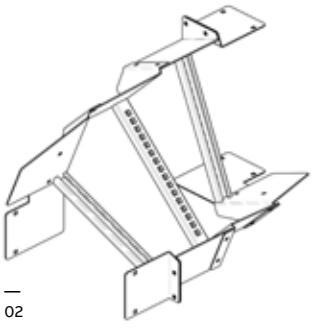
Helix™ cable tray fitting

Cat. No.	Material	Side rail (in)	Side rail (mm)	Width (in)	Width (mm)	Direction
AUF612LHVR	Aluminum	6	152.4	12	304.8	Right turn
AUF612LHVL						Left turn
AUF624LHVR				24	609.6	Right turn
AUF624LHVL						Left turn
SPF612LHVR	Pregalvanized steel			12	304.8	Right turn
SPF612LHVL						Left turn
SPF624LHVR				24	609.6	Right turn
SPF624LHVL						Left turn
SSF612LHVR	Stainless steel			12	304.8	Right turn
SSF612LHVL						Left turn
SSF624LHVR				24	609.6	Right turn
SSF624LHVL						Left turn

Supports should be positioned within 24" (600mm) of each Helix fitting extremity.



01



02

Metallic - Steel

Straight covers

01 / 02 Solid covers
03 Ventilated flanged covers
04 Peaked flanged covers / peaked ventilated covers

Straight cover number selection

Tray covers
Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Cover mounting hardware must be ordered separately.

1) Solid covers (01 & 02)
These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have a ½" (12.7mm) flange.

Cover mounting hardware must be ordered separately.

2) Ventilated flanged covers (03)
This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.

3) For extreme applications: Peaked flanged covers / peaked ventilated covers (04)
Peaked covers offer mechanical protection, reduce pooling of liquids on the cover and the accumulation of snow or ice. Peaked covers have a 15° angle.

Cover mounting hardware must be ordered separately.

01


02


03


04


(SPW - 12) - SNC - 3

Material prefix
Aluminum **ABW**

Width

6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**

Cover type

Solid non-flanged cover	**SNC**
Solid flanged cover	**SFC**
Ventilated flanged cover	**VFC**
Peaked flanged cover*	**PFC**

Length

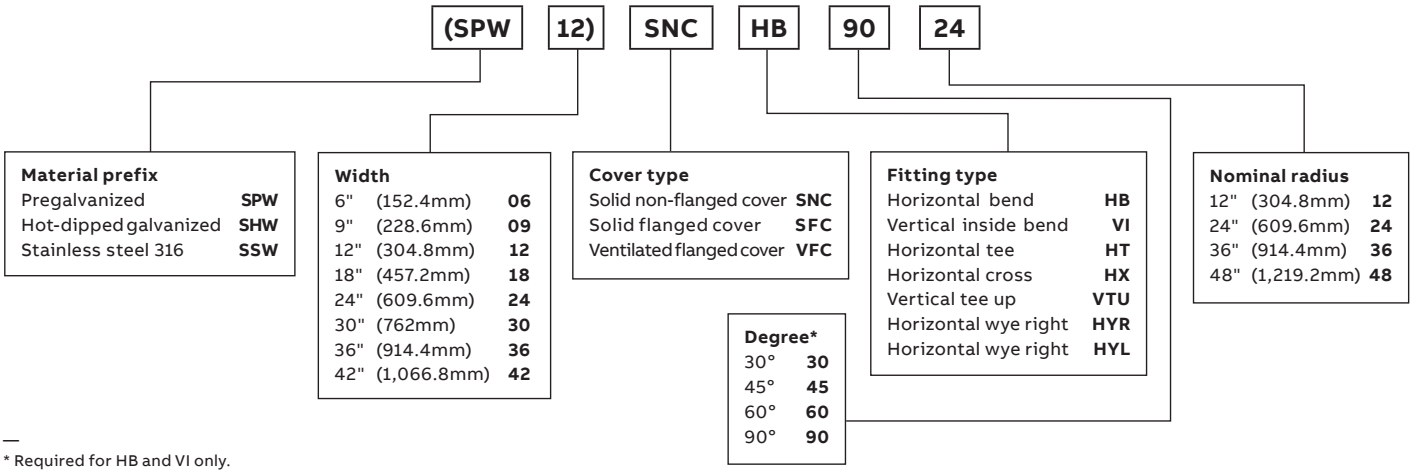
72 ft	**72**
3m	**3**

* Hot-dipped covers only available in 72" and 1500mm lengths.

Metallic - Steel

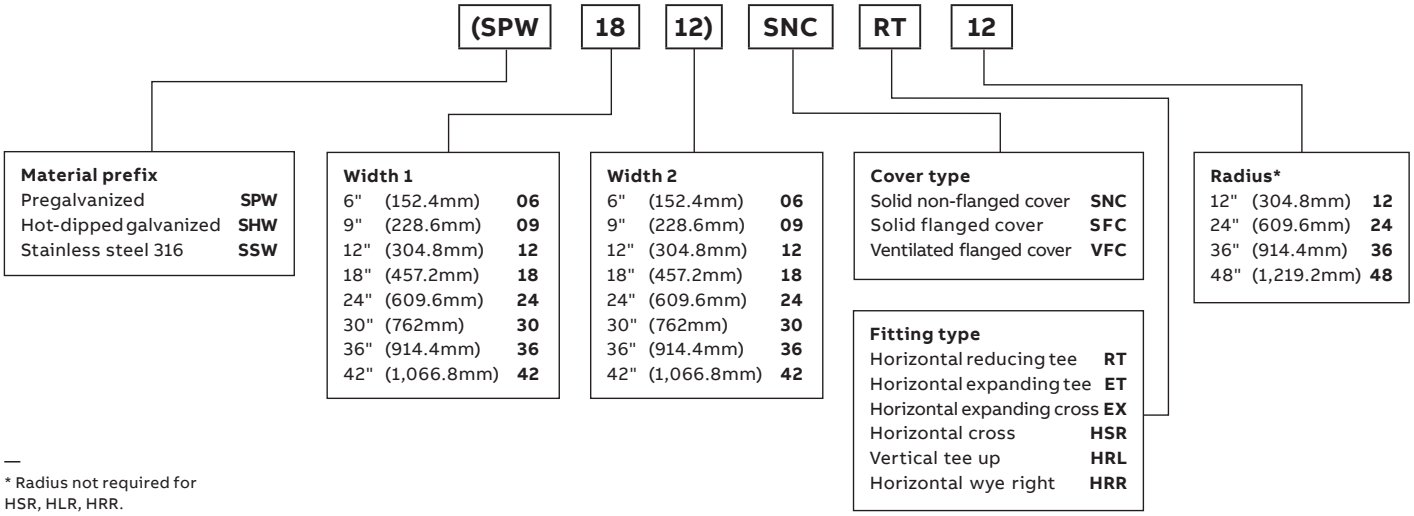
Fitting covers

Fitting covers - Number selection

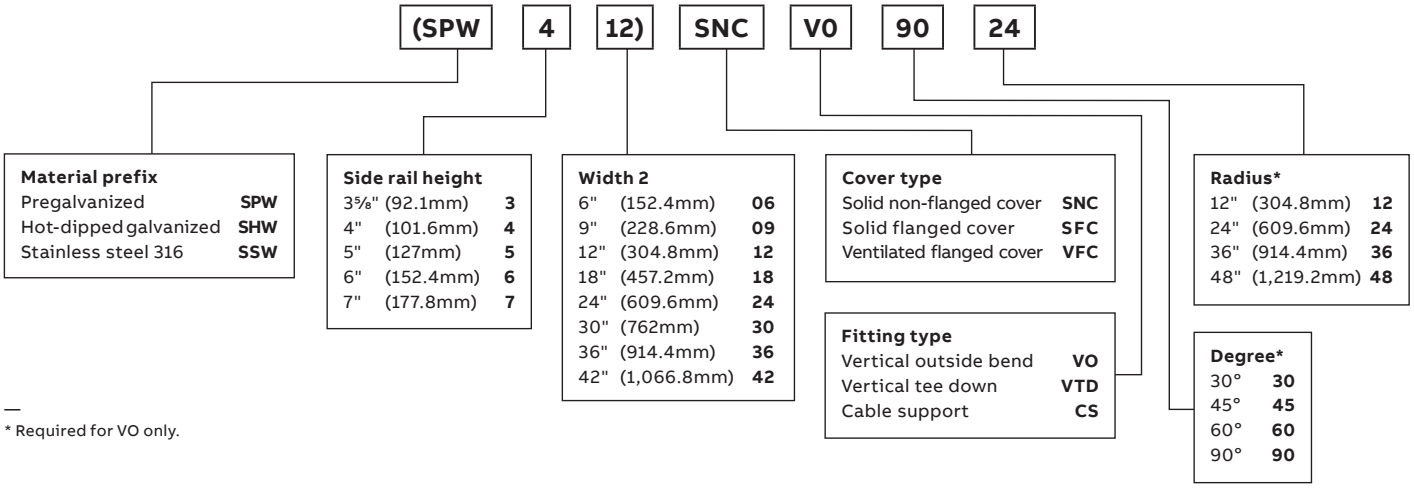


* Required for HB and VI only.

Fitting covers - Number selection



* Radius not required for HSR, HLR, HRR.



* Required for VO only.

Metallic - Steel

Peaked covers

Peaked covers - Number selection

SHW - 12 - PFC - HB 90 - 24

Material prefix
Hot-dipped galvanized **SHW**
Stainless steel 316 **SSW**

Width

6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type
Peaked flanged cover **PFC**
Peaked ventilated flanged cover **PVC**

Fitting type
Horizontal bend **HB**
Vertical inside bend **VI**

Degree
30° **30**
45° **45**
60° **60**
90° **90**

Nominal radius

12"	(304.8mm)	**12**
24"	(609.6mm)	**24**
36"	(914.4mm)	**36**
48"	(1,219.2mm)	**48**

NOTE: Pregalvanized not available.

SSW - 6 - 12 - PFC - VO 90 - 24

Material prefix
Hot-dipped galvanized **SHW**
Stainless steel 316 **SSW**

Side rail height

4"	(101.6mm)	**4**
5"	(127mm)	**5**
6"	(152.4mm)	**6**
7"	(177.8mm)	**7**

Width

6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type
Peaked flanged cover **PFC**
Peaked ventilated flanged cover **PVC**

Fitting type
Vertical outside bend **VO**

Degree
30° **30**
45° **45**
60° **60**
90° **90**

Nominal radius

12"	(304.8mm)	**12**
24"	(609.6mm)	**24**
36"	(914.4mm)	**36**
48"	(1,219.2mm)	**48**

NOTE: Pregalvanized not available.

SHW - 24 - PFC - HT - 24

Material prefix
Hot-dipped galvanized **SHW**
Stainless steel 316 **SSW**

Width

6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type
Peaked flanged cover **PFC**
Peaked ventilated flanged cover **PVC**

Fitting type
Horizontal tee **HT**

Nominal radius

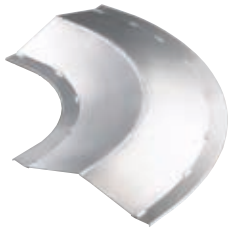
12"	(304.8mm)	**12**
24"	(609.6mm)	**24**
36"	(914.4mm)	**36**
48"	(1,219.2mm)	**48**

NOTE: Pregalvanized not available.

Metallic - Steel

Peaked covers

Horizontal bend/vertical inside bend - for horizontal bend (peaked cover) - Number selection



NOTE: Pregalvanized not available.

SH - 12 - PFC - HB - 90 - 24

Material prefix	
Hot-dipped galvanised	**SH**
Stainless steel	**SS**

Width		
6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type	
Peaked flanged cover	**PFC**
Peaked ventilated flanged cover	**PVC**

Fitting type	
Horizontal bend	**HB**
Vertical inside bend	**VI**

Degree	
30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius		
12"	(304.8mm)	**12**
24"	(609.6mm)	**24**
36"	(914.4mm)	**36**
48"	(1,219.2mm)	**48**

Vertical outside bend (peaked cover) - Number selection

* Not required for VI
NOTE: Pregalvanized not available.

SH - 4 - 12 - PFC - VO - 90 - 24

Material prefix	
Hot-dipped galvanised	**SH**
Stainless steel	**SS**

Width		
6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type	
Peaked flanged cover	**PFC**
Peaked ventilated flanged cover	**PVC**

Side rail height*		
4"	(101.6mm)	**4**
5"	(127mm)	**5**
6"	(152.4mm)	**6**
7"	(177.8mm)	**7**

Fitting type	
Vertical outside bend	**VO**
Vertical inside bend	**VI**

Degree	
30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius		
12"	(304.8mm)	**12**
24"	(609.6mm)	**24**
36"	(914.4mm)	**36**
48"	(1,219.2mm)	**48**

Horizontal tee (peaked cover) - Number selection

NOTE: Pregalvanized not available.

SH - 12 - PFC - HT - 24

Material prefix	
Hot-dipped galvanised	**SH**
Stainless steel	**SS**

Width		
6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**
42"	(1,066.8mm)	**42**

Cover type	
Peaked flanged cover	**PFC**
Peaked ventilated flanged cover	**PVC**

Fitting type	
Horizontal tee	**HT**

Nominal radius		
12"	(304.8mm)	**12**
24"	(609.6mm)	**24**
36"	(914.4mm)	**36**
48"	(1,219.2mm)	**48**

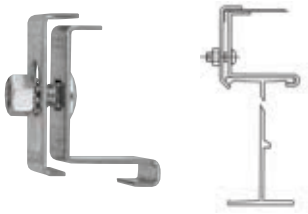
Metallic - Steel

Accessories for covers

Quantity of standard cover clamps required			
Straight section 1.8m (6ft)	4 pcs.	Tees	6 pcs.
Straight section 3m (10ft) and 3.7m (12ft)	6 pcs.	Crosses	8 pcs.
Horizontal and vertical bends	4 pcs.		

NOTE: When using heavy-duty cover clamp, only half the quantity of pieces are required.

Raised cover clamp



Cat. No.	Material prefix	Cover offset (in)	Cover offset (mm)
SPW(+)RCC	SPW – Pregalvanized	1	25.4
		2	50.8
	SSW – Stainless steel 316	1	25.4
		2	50.8

Designed to raise cover above tray for added ventilation.
(*) Insert cover offset.

Peaked end cap

Cat. No.	Material prefix	Width (in)*	Width (mm)*
SPW(*)PEC	SPW – Pregalvanized	6	152.4
SHW(*)PEC	SHW – Hot-dipped galvanized	9	228.6
SSW(*)PEC	SSW – Stainless steel 316	12	304.8
		18	457.2
		24	609.6
		30	762
		36	914.4
		42	1,066.8

Used for transition between peaked covers to straight covers.
(*) Insert tray width.

Cover clamp

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-3-SCC	SPW – Pregalvanized	3	76.2
(Prefix)-4-SCC	SHW – Hot-dipped galvanized	4	101.6
(Prefix)-5-SCC	SSW – Stainless steel 316	5	127
(Prefix)-6-SCC		6	152.4
(Prefix)-7-SCC		7	177.8

Rigid indoor cover clamp for flat and flanged covers.

—

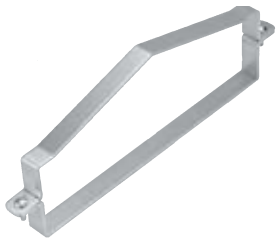
Heavy-duty cover clamp

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-3-(*)-HCC	SPW – Pregalvanized	3	76.2	4	101.6
(Prefix)-4-(*)-HCC	SHW – Hot-dipped galvanized	4	101.6	9	127
(Prefix)-5-(*)-HCC	SSW – Stainless steel 316	5	127	12	152.4
(Prefix)-6-(*)-HCC		6	152.4	18	457.2
(Prefix)-7-(*)-HCC		7	177.8	24	609.6
				30	762
				36	914.4
				42	1.066.8

Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.
(*) Insert tray width.

—

Heavy-duty peaked cover clamp



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
ABW4(*)ECC	SPW – Pregalvanized	3	76.2	4	101.6
ABW5(*)ECC	SHW – Hot-dipped galvanized	4	101.6	9	127
ABW6(*)ECC	SSW – Stainless steel 316	5	127	12	152.4
ABW7(*)ECC		6	152.4	18	457.2
		7	177.8	24	609.6
				30	762
				36	914.4
				42	1.066.8

Wraparound design formed to fit peaked cover for outdoor applications. Hardware included.
(*) Insert tray width.

—

Cover joint strip

Cat. No.	Material	Tray width (in)*	Tray width (mm)*
SPW-(*)-PCS	Plastic	6	152.4
		9	228.6
		12	304.8
		18	457.2
		24	609.6
		30	762
		36	914.4
		42	1,066.8

Strip used for joining covers end to end.
(*) Insert tray width.

Metallic - Steel splice plates

Splice, expansion and transition plates

Snap-in splice plate

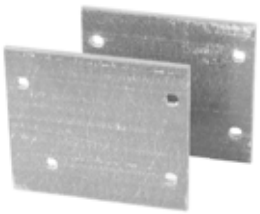
- Packaged in pairs with zinc-plated hardware
- Kit contents: 4 bolts, 4 nuts, 4 washers, ⅜" diameter
- Provided as standard with each straight and/or fitting

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-3-SSP	SPW – Pregalvanized	3	76.2
(Prefix)-4-SSP	SHW – Hot-dipped galvanized	4	101.6
(Prefix)-5-SSP	SSW – Stainless steel 316	5	127
(Prefix)-6-SSP		6	152.4
(Prefix)-7-SSP		7	177.8

Expansion splice plate

- Allows for a 1" (25.5mm) expansion or contraction of tray system
- Packaged in pairs with hardware
- Kit contents: 8 bolts, 8 stop nuts, 4 serrated flange nuts, ⅜" diameter

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-3-ESP	SPW – Pregalvanized	3	76.2
(Prefix)-4-ESP	SHW – Hot-dipped galvanized	4	101.6
(Prefix)-5-ESP	SSW – Stainless steel 316	5	127
(Prefix)-6-ESP		6	152.4
(Prefix)-7-ESP		7	177.8



Transition splice plate

- Designed to make the transition from aluminum to steel cable tray
- Works for all 6" (152.4mm) side rails

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
XNM-XP400-(*)-SS6	Polyester/fiberglass	6	152.4

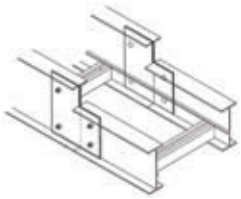
Each pair of plates:
8 x carriage bolt (⅜ x 1") SS316
8 x ⅜" serrated flange nut SS316

Metallic - Steel splice plates

Step-down splice plate & flexible coupler

- Connects side rails of different heights
- Hardware included
- Kit contents: 8 bolts, 8 nuts, 8 washers, ⅜" diameter

Step-down splice plate



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-(*)-(**)-SDS	SPW – Pregalvanized	4	101.6
	SHW – Hot-dipped galvanized	5	127
	SSW – Stainless steel 316	6	152.4
		7	177.8

(*) Insert side rail height 1.
(**) Insert side rail height 2.
NOTE: Side rail height 1 is greater than side rail height 2.

The flexible coupler provides easy installation without cutting cable tray side rails. Once installed, the bendable plate allows for electrical continuity, therefore eliminating the requirement for a bonding jumper.

Flexible coupler

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-(*)06HBP	SPW	3 to 7	76.2 to 177.8	6	152.4
(Prefix)-(*)09HBP	SHW			9	228.6
(Prefix)-(*)12HBP	SSW			12	304.8
(Prefix)-(*)18HBP				18	457.2
(Prefix)-(*)24HBP				24	609.6
(Prefix)-(*)30HBP				30	762
(Prefix)-(*)36HBP				36	914.4

* Insert side rail height

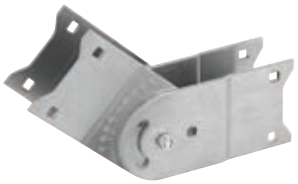
Optional rung information for flexible coupler

Cat. No.	Material prefix	Tray width (in)	Tray width (mm)
(Prefix)-R06HBP	SPW	06	152.4
(Prefix)-R09HBP	SHW	09	228.6
(Prefix)-R12HBP	SSW	12	304.8
(Prefix)-R18HBP		18	457.2
(Prefix)-R24HBP		24	609.6
(Prefix)-R30HBP		30	762
(Prefix)-R36HBP		36	914.4

* Insert tray width

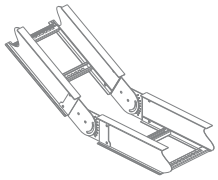
Metallic - Steel splice plates

Vertical adjustable plates, branch pivot connectors and heavy-duty cover clamp



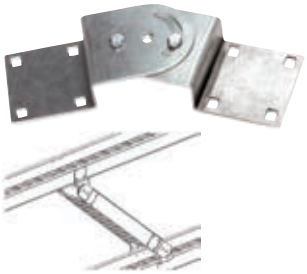
- Hinged vertical plates provide maximum flexibility for changes in elevation
- Packaged in pairs with hardware

Vertical adjustable plate



Cat. No.	Material prefix	Side rail height (in)	Tray width (mm)
(Prefix)-3-VSP	SPW – Pregalvanized	3	76.2
(Prefix)-4-VSP	SHW – Hot-dipped galvanized	4	101.6
(Prefix)-5-VSP	SSW – Stainless steel 316	5	127
(Prefix)-6-VSP		6	152.4
(Prefix)-7-VSP		7	177.8

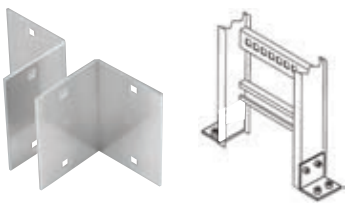
Branch pivot connectors



Cat. No.	Material prefix	Side rail height (in)	Tray width (mm)
(Prefix)-3-BPC	SPW – Pregalvanized	3	76.2
(Prefix)-4-BPC	SHW – Hot-dipped galvanized	4	101.6
(Prefix)-5-BPC	SSW – Stainless steel 316	5	127
(Prefix)-6-BPC		6	152.4
(Prefix)-7-BPC		7	177.8

Allows cables to run from one tray level to another.

Heavy-duty cover clamp



Cat. No.	Material prefix	Side rail height (in)	Tray width (mm)
(Prefix)-3-BSP	SPW – Pregalvanized	3	76.2
(Prefix)-4-BSP	SHW – Hot-dipped galvanized	4	101.6
(Prefix)-5-BSP	SSW – Stainless steel 316	5	127
(Prefix)-6-BSP		6	152.4
(Prefix)-7-BSP		7	177.8

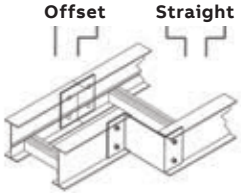
Designed to secure tray to electrical panels or boxes, walls or end supports. Packaged in pairs with hardware.

Metallic - Steel splice plates

Reducing splice and closure end plate

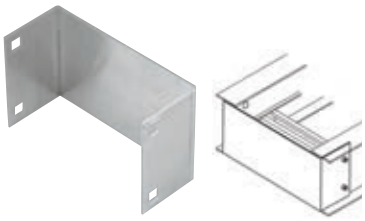
- Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction
- One per package with hardware

Closure end plate

	Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
	ABW-4(*)-RSP	SPW – Pregalvanized	4	101.6
	ABW-5(*)-RSP	SHW – Hot-dipped galvanized	5	127
	ABW-6(*)-RSP	SSW – Stainless steel 316	6	152.4
	ABW-7(*)-RSP		7	177.8

NOTE: (*) For offset reduction: insert width to be reduced. For straight reduction: insert 1/2 width to be reduced (two required).
Example: ABW-403-RSP = 3" (76.2mm) offset reducer.

Closure end plate

	Cat. No.	Material prefix	Side rail height (in)	Tray width (mm)
	(Prefix)-3-CEP	SPW – Pregalvanized	3	76.2
	(Prefix)-4-CEP	SHW – Hot-dipped galvanized	4	101.6
	(Prefix)-5-CEP	SSW – Stainless steel 316	5	127
	(Prefix)-6-CEP		6	152.4
	(Prefix)-7-CEP		7	177.8

Provides closure for any tray end. Hardware included.
(*) Insert tray width.

Metallic - Steel splice plates

Super-duty splice plate

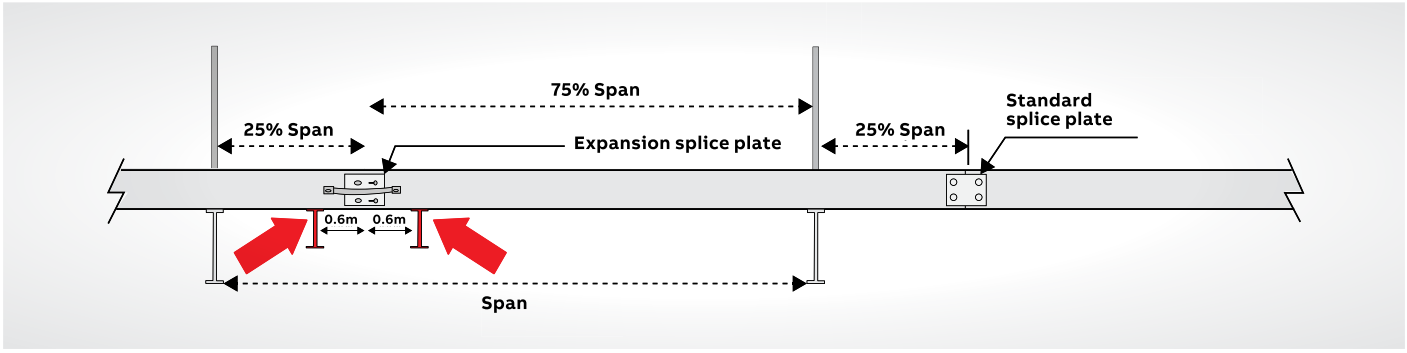
Reducing splice plate

- High-strength design enables reduction of supports recommended for NEMA standard installations at the expansion joint, significantly reducing material and labor costs.
- Unique reinforced design eliminates the need to drill and install additional hardware on the flange, saving installation time.

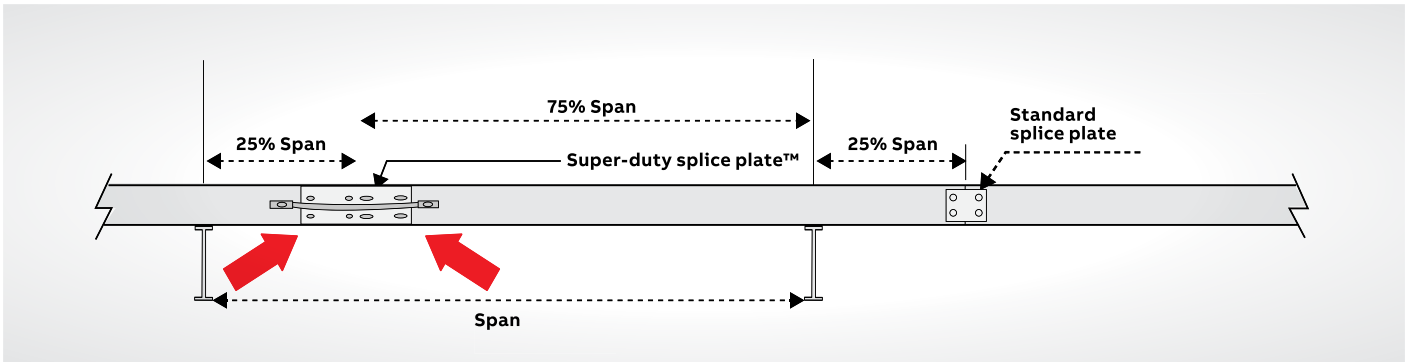
Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-4-SDP	SPW – Pregalvanized	4	101.6
(Prefix)-5-SDP	SHW – Hot-dipped galvanized	5	127
(Prefix)-6-SDP	SSW – Stainless steel 316	6	152.4
(Prefix)-7-SDP		7	177.8

Comes complete with 16 bolts, 8 stop nuts, 8 nuts and 8 nylon washers, ⅜" diameter, required for either expansion or mid-span splicing.

01



02



01 Additional supports per NEMA standard installation

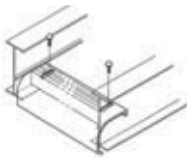
02 No additional supports needed with Super-Duty splice plate

Metallic - Steel cable protection

Drop out and wall penetration sleeve

- Designed to provide a smooth radius surface at any position on the tray or trough bottom
- Drop outs are easily attached using hardware provided
- Standard radius 4" (101.6mm)

Drop out



Cat. No.	Material prefix	Tray width (in)	Tray width (mm)
(Prefix)-(*)-DO	SPW – Pregalvanized	6	152.4
(Prefix)-(*)-DOS +	SHW – Hot-dipped galvanized	9	228.6
	SSW – Stainless steel 316	12	304.8
		18	457.2
		24	609.6
		30	127
		36	914.4
		42	1,006.8

(*) Insert side rail height.
DOS + = is for solid tray.

- Designed to pass through walls and fire walls
- Hardware included
- NOTE: Not fire rated
- Fire stop not included

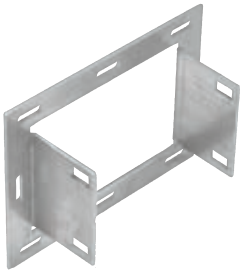
Wall penetration sleeve

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-(*)-(**)-WPS	SPW – Pregalvanized	3	76.2	6	152.4
	SHW – Hot-dipped galvanized	4	101.6	9	228.6
	SSW – Stainless steel 316	5	127	12	304.8
		6	152.4	18	457.2
		7	177.8	24	609.6
				30	127
				36	914.4
				42	1,006.8

(*) Insert side rail height.
(**) Insert tray width.

Metallic - Steel cable protection

Frame-type tray to box plate and expansion pad



- Designed to secure tray to electrical enclosures and panels
- Hardware included

Frame-type tray to box plate

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-(*)-(**)-FBP	SPW – Pregalvanized	3	76.2	6	152.4
	SHW – Hot-dipped galvanized	4	101.6	9	228.6
	SSW – Stainless steel 316	5	127	12	304.8
		6	152.4	18	457.2
		7	177.8	24	609.6
				30	127
				36	914.4
				42	1,006.8

(*) Insert side rail height. (**) Insert tray width.

Nylon expansion pad

	Cat. No.	Material
	ABW-NSP	Natural nylon

NOTE: Allows for thermal expansion and contraction of cable trays over supports.

Metallic - Steel barrier strips

Barrier strips and vertical bend barriers

SBH

SB

- Barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware or barrier strip clamps (sold separately)
- 72" (1,83m) barriers are flexible for use with horizontal fittings

Barrier strips

Cat. No.	Material prefix	Designed for side rail height (in)	Designed for side rail height (mm)	Length (in)	Length (m)
(Prefix)-3-SBH-72	SPW – Pregalvanized	3	76.2	72	1.83
(Prefix)-4-SBH-72	SHW – Hot-dipped galvanized	4	101.6		
(Prefix)-5-SBH-72	SSW – Stainless steel 316	5	127		
(Prefix)-6-SBH-72		6	152.4		
(Prefix)-7-SBH-72		7	177.8		
(Prefix)-3-SB-(*)	SPW – Pregalvanized	3	76.2	144	3.65
(Prefix)-4-SB-(*)	SHW – Hot-dipped galvanized	4	101.6		
(Prefix)-5-SB-(*)	SSW – Stainless steel 316	5	127		
(Prefix)-6-SB-(*)		6	152.4		
(Prefix)-7-SB-(*)		7	177.8		

NOTE: Barriers provided with self-drilling tapping screw Cat. No. SPW10SCR. 72" length: 3 screw; 3m length: 5 screw; 144" length: 6 screw. SHW barriers are only available in 72" or 1500mm.
(*) Insert length.

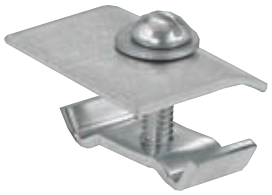
- Preformed to fit all standard steel vertical bends
- Provided with hardware

Inside/outside vertical bend barriers

Inside bend Cat. No.	Outside bend Cat. No.		Designed for side rail height (in)	Designed for side rail height (mm)
(Prefix)-3-VIB-(*)-(+)	(Prefix)-3-VOB-(*)-(+)	SPW – Pregalvanized	3	76.2
(Prefix)-4-VIB-(*)-(+)	(Prefix)-4-VOB-(*)-(+)	SHW – Hot-dipped galvanized	4	101.6
(Prefix)-5-VIB-(*)-(+)	(Prefix)-5-VOB-(*)-(+)	SSW – Stainless steel 316	5	127
(Prefix)-6-VIB-(*)-(+)	(Prefix)-6-VOB-(*)-(+)		6	152.4
(Prefix)-7-VIB-(*)-(+)	(Prefix)-7-VOB-(*)-(+)		7	177.8

Metallic - Steel clamps and hardware

Barrier strip clamp and strip splice

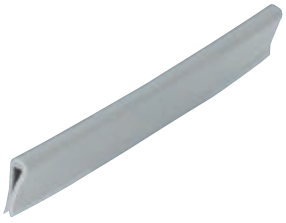


- Barrier strip clamps mount barrier strips to ladder rungs and ventilated trough bottoms
- Complete mounting hardware supplied

Barrier strip clamp

	Cat. No.	Material prefix
	(Prefix)-BSC	SPW – Pregalvanized
		SSW – Stainless steel 316

Barrier strip splice

	Cat. No.	Material prefix
	ABWBSS	SPW – Pregalvanized
		SSW – Stainless steel 316

Alignment splice for joining connecting barrier strips.

Metallic - Steel clamps and hardware

Combination hold-down/expansion clamp and square shoulder carriage bolt

Barrier strip splice

	Cat. No.	Material
	(Prefix)-HEC*	SPW – Pregalvanized
		SHW – Hot-dipped galvanized
		SSW – Stainless steel 316
	(Prefix)-HEC**	SPW – Pregalvanized
		SHW – Hot-dipped galvanized
		SSW – Stainless steel 316
 HEC hold-down clamp orientation		
 HEC expansion clamp orientation		

(*) Order ⅜" hardware separately.
(**) NOTE: HDW is supplied with one bolt and one spring nut, ¼" diameter.

Self-drilling tapping screw

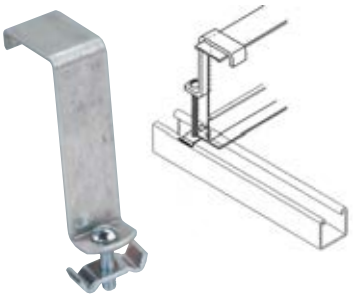
	Cat. No.	Material	Description
	SPW-1/4-CB	Zinc-plated steel	¼" carriage bolt
	SPW-3/8-CB		⅜" carriage bolt
	SPW-1/4-HN		¼" hex. nut
	SPW-3/8-HN		⅜" hex. nut
	SPW-3/8-HWK*		Hardware kit
	SSW-3/8-CB	316 Stainless	⅜" carriage bolt
	SSW-3/8-HN		⅜" hex. nut
	SSW-3/8-HWK*		316 Stainless steel hardware kit

Square-shoulder self-positioning carriage bolt.
* Contains 8 bolts and 8 nuts.

Metallic - Steel clamps and hardware

Hold down clamps and tapping screw

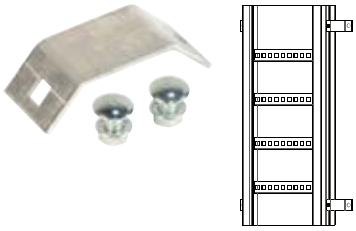
Hold-down clamp



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-3-HDC	SPW – Pregalvanized	3	76.2
(Prefix)-4-HDC	SHW – Hot-dipped galvanized	4	101.6
(Prefix)-5-HDC	SSW – Stainless steel 316	5	127
(Prefix)-6-HDC		6	152.4
(Prefix)-7-HDC		7	177.8

NOTE: Hardware included. Kit contains one bolt and one spring nut.

Hold-down clamp



Cat. No.	Type	Material prefix	Design load (lb)	Design load (kg)
SPWHDCS	Single	SPW – Pregalvanized	800 lb / pair	362.9 kg / pair
SHWHDCS	Single	SHW – Hot-dipped galvanized		
SSWHDCS	Single	SSW – Stainless steel 316		
SPWHDCD	Double	SPW – Pregalvanized	1500 lb / pair	680.4 kg / pair
SHWHDCD	Double	SHW – Hot-dipped galvanized		
SSWHDCD	Double	SSW – Stainless steel 316		

NOTE: For vertical applications.

Self-drilling tapping screw

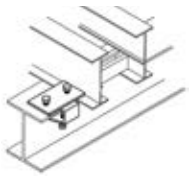
Cat. No.	Material	Description
SPW-10-SCR	Zinc-plated steel	Self-drilling tapping screw
SSW-10-SCR	Stainless steel	

Metallic - Steel clamps and hardware

Cable tray guide and vertical tray hanger

Cable tray guide

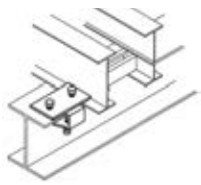
- Expansion guide for single or double runs of cable tray
- No need to field drill the channel or I-beam



Cat. No.	Material
SPW-CTG	Zinc-plated steel
SHW-CTG	Hot-dipped galvanized steel
SSW-CTG	Stainless steel

Cable tray guide

- Clamps for single run of cable tray
- No need to field drill the channel or I-beam



Cat. No.	Material
SPW-CTC	Zinc-plated steel
SHW-CTC	Hot-dipped galvanized steel
SSW-CTC	Stainless steel

Vertical tray hanger

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-(*)-VTH	SPW – Pregalvanized	3	76.2
	SHW – Hot-dipped galvanized	4	101.6
	SSW – Stainless steel 316	5	127
		6	152.4
		7	177.8

* Insert side rail height

Metallic - One-piece tray
Straight lengths

One-piece tray - straight lengths*

Ventilated trough
- Formed from a pre-punched sheet to produce a one-piece ventilated trough.
- Available in aluminum, pregalvanized steel, hot-dipped galvanized steel and stainless steel 316.
- Fittings are also available to complete this cable tray system.

Solid trough
- Fabricated from one sheet to form a continuous one-piece tray design.
- Available in aluminum, pregalvanized steel, hot-dipped galvanized steel and stainless steel 316.
- Fittings are also available to complete this cable tray system.

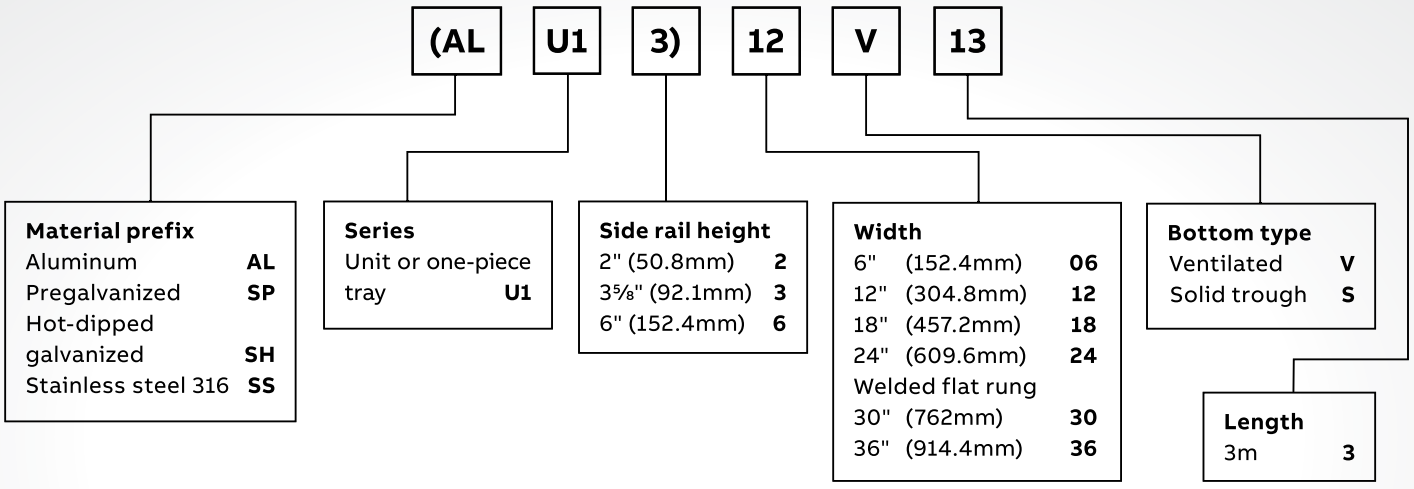
* NOTE: One pair of splice plates complete with hardware supplied with each straight length.

Straight lengths number selection

How to create catalog numbers
Thomas & Betts has created a numbering system based on the order of selection criteria. For example, the first selection issue is the environment to which the cable tray will be subjected. This selection will lead to the best material for your application. For complete details on the cable tray selection process, see pages 22-51 in the technical section.

Methods
1. Select the material best suited to your environment. Refer to technical section page 24-29.
2. Determine the tray series using the NEMA/CSA load/span designations page 30-38 and sizing cable tray page 40.
3. Select nominal depth and width of tray based on cable loading. See “Sizing Cable Tray” pages 41-43.
4. Select the bottom type based on cables and spacing requirements.
5. The last number is the length of the cable tray in meters.

*NOTE: Standard straight length is 10 feet nominal = actually 3m (3m = 9.842 ft).



Metallic - One-piece tray straight lengths

2" Straight sections / AL, SP, SH & SS - Solid and vented

2" Straight sections / AL, SP, SH & SS – Solid and vented

Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

		Support span ft (m)		
Series		**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**
ALU12	**Load (lb)/ft)**	69	39	25
	Load (kg)/m)	102.68	58.04	37.2
	Deflection (in)	0.382	0.73	1
	Deflection (mm)	9.7	18.54	25.4
	K factor	0.006	0.019	0.04
SPU12 SHU12	**Load (lb)/ft)**	69	39	25
	Load (kg)/m)	102.68	58.04	37.20
	Deflection (in)	0.382	0.73	1
	Deflection (mm)	9.7	18.54	25.4
	K factor	0.006	0.019	0.04
SSU12	**Load (lb)/ft)**	69	39	25
	Load (kg)/m)	102.68	58.04	37.2
	Deflection (in)	0.382	0.73	1
	Deflection (mm)	9.7	18.54	25.4
	K factor	0.006	0.019	0.04

Straight section number selection

(AL U1 2) 12 V - 3

Material prefix
Aluminum **AL**
Pregalvanised **SP**
Hot-dipped galvanised **SH**
Stainless steel 316 **SS**

Series
Unit or one-piece tray **U1**

Side rail height
2" (50.8mm) **2**

Width
6" (152.4mm) **06**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
Welded flat rung
30" (762mm) **30**
36" (914.4mm) **36**

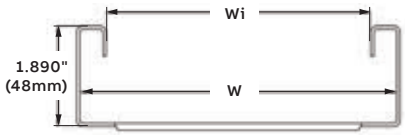
Bottom type
Ventilated trough **V**
Solid trough **S**

Length
3m* **3**

* Standard straight length is 10 feet nominal = actually 3m (3m = 9.842 ft.)

For fittings, consult pages 230 - 252.

Dimensions

	All U12 series (dimensions)			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	5	127
	9	228.6	8	203.2
	12	304.8	11	279.4
	18	457.2	17	431.8
	24	609.6	23	584.2
	30	762	29	736.6
	36	914.4	35	889

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray above and beyond published load class.

Load ratings: 1.5 safety factor

			Classifications	
	Series	Dimensions	NEMA	CSA
	ALU12 **SPU12** **SHU12** **SSU12**	See above	–	A

Metallic - One-piece tray straight lengths

3⅝" Straight sections / AL, SP, SH & SS - Solid and vented

Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

3⅝" Straight sections / AL, SP, SH & SS – Solid and vented

		Classifications	Support span ft (m)		
Series		**NEMA**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**
ALU13	**Load (lb)/ft)**	8C	180	101	65
	Load (kg)/m)		267.87	150.3	96.73
	Deflection (in)		0.382	0.43	0.54
	Deflection (mm)		9.7	10.92	13.72
	K factor		0.002	0.004	0.008
SPU13 SHU13	**Load (lb)/ft)**	8C	180	101	65
	Load (kg)/m)		267.87	150.3	96.73
	Deflection (in)		0.125	0.25	0.32
	Deflection (mm)		9.7	10.92	13.72
	K factor		0.001	0.002	0.005
SSU13	**Load (lb)/ft)**	8C	180	101	65
	Load (kg)/m)		267.87	150.3	96.73
	Deflection (in)		0.125	0.25	0.32
	Deflection (mm)		9.7	10.92	13.72
	K factor		0.001	0.002	0.005

Straight section number selection

(AL U1 3) 12 V - 3

Material prefix
Aluminum **AL**
Pregalvanised **SP**
Hot-dipped galvanised **SH**
Stainless steel 316 **SS**

Series
Unit or one-piece tray **U1**

Side rail height
3⅝" (50.8mm) **3**

Width
6" (152.4mm) **06**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
Welded flat rung
30" (762mm) **30**
36" (914.4mm) **36**

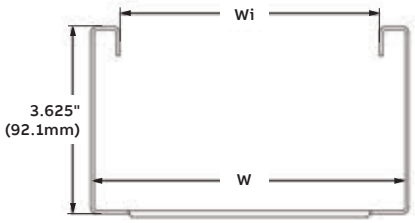
Bottom type
Ventilated trough **V**
Solid trough **S**

Length
3m* **3**

* Standard straight length is 10 feet nominal = actually 3m.
1m = 3.2808 ft.
3m = 9.842 ft.

For fittings, consult pages 230 - 252.

Dimensions



All U12 series (dimensions)			
W (in)	W (mm)	Wi (in)	Wi (mm)
6	152.4	5	127
9	228.6	8	203.2
12	304.8	11	279.4
18	457.2	17	431.8
24	609.6	23	584.2
30	762	29	736.6
36	914.4	35	889

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray above and beyond published load class.

Load ratings: 1.5 safety factor

			Classifications	
	Series	Dimensions	NEMA	CSA
	ALU13 **SPU13** **SHU13** **SSU13**	See above	8C	C

Metallic - One-piece tray straight lengths

6" Straight sections / AL, SP, SH & SS - Solid and vented

Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the K factor.

6" Straight sections / AL, SP, SH & SS – Solid and vented

		Classifications	Support span ft (m)		
Series		**NEMA**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**
ALU16	**Load (lb)/ft)**	8C	180	101	65
	Load (kg)/m)		267.87	150.30	96.73
	Deflection (in)		0.082	0.128	0.16
	Deflection (mm)		2.08	3.25	4.06
	K factor		0	0.001	0.008
SPU16 SHU16	**Load (lb)/ft)**	8C	180	101	65
	Load (kg)/m)		267.87	150.3	96.73
	Deflection (in)		0.125	0.25	0.32
	Deflection (mm)		3.18	6.35	8.13
	K factor		0.001	0.002	0.005
SSU16	**Load (lb)/ft)**	8C	180	101	65
	Load (kg)/m)		267.87	150.3	96.73
	Deflection (in)		0.125	0.25	0.32
	Deflection (mm)		3.18	6.35	8.13
	K factor		0.001	0.002	0.005

Straight section number selection

(AL U1 6) 12 V - 3

Material prefix
Aluminum **AL**
Pregalvanised **SP**
Hot-dipped galvanised **SH**
Stainless steel 316 **SS**

Series
Unit or one-piece tray **U1**

Side rail height
6" (152.4mm) **6**

Width
6" (152.4mm) **06**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
Welded flat rung
30" (762mm) **30**
36" (914.4mm) **36**

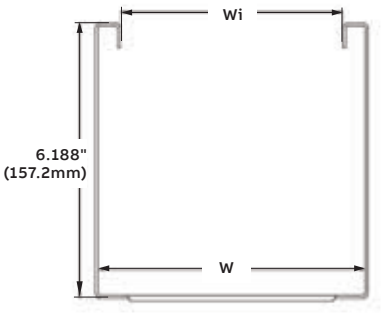
Bottom type
Ventilated trough **V**
Solid trough **S**

Length
3m* **3**

* Standard straight length is 10 feet nominal = actually 3m.
1m = 3.2808 ft.
3m = 9.842 ft.

For fittings, consult pages 230 - 252.

Dimensions



All U16 series (dimensions)			
W (in)	W (mm)	Wi (in)	Wi (mm)
6	152.4	5	127
9	228.6	8	203.2
12	304.8	11	279.4
18	457.2	17	431.8
24	609.6	23	584.2
30	762	29	736.6
36	914.4	35	889

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray above and beyond published load class.

Load ratings: 1.5 safety factor

			Classifications	
	Series	Dimensions	NEMA	CSA
	ALU16 **SPU16** **SHU16** **SSU16**	See above	8C	C

Metallic - One-piece tray
Fittings

—
01

—
02

—
01 **90° Horizontal bend**
Metallic solid one-piece tray fitting.

—
02 **Horizontal expanding tee**
Metallic ventillated one-piece tray fitting.

—

Fittings number selection

Metallic - One-piece tray fittings are available in solid and ventillated trough options.

SHUF **3** - **06** - **V** - **HB** **90** - **12**

Fitting material prefix

Aluminum	**ALUF**
Pregalvanised	**SPUF**
Hot-dipped galvanised	**SHUF**
Stainless steel 316	**SSUF**

Side rail height

4" (101.6mm)	**4**
5" (127mm)	**5**
6" (152.4mm)	**6**
7" (177.8mm)	**7**

Width

6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**

Bottom type

Ladder	**L**
Ventilated	**V**
Solid trough	**S**

Fitting type

Horizontal bend	**HB**
Horizontal tee	**HT**
Horizontal cross	**HX**
Vertical inside bend	**VI**
Vertical outside bend	**VO**
Vertical tee down	**VTD**
Vertical tee up	**VTU**
Horizontal wye right	**HYR**
Horizontal wye left	**HYL**
Horizontal reducing tee	**RT**
Horizontal expanding tee	**ET**
Horizontal expand cross	**EX**
Horizontal left reducer	**HLR**
Horizontal straight reducer	**HSR**
Horizontal right reducer	**HRR**
Cable support fitting	**CS**

Angle*

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius †

12" (304.8mm)	**12**
24" (609.6mm)	**24**
36" (914.4mm)	**36**

Key

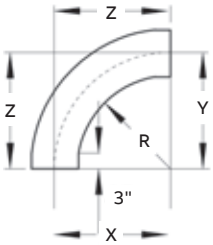
* = Angle is required for HB, VI, VO only

† = Radius is not required for the following fitting types: HYR, HYL, HLR, HRR, HSR

Metallic - One-piece tray

90° Horizontal bend fittings

90° Horizontal bend



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HB90-12	15	381.00	15	381.00	15	381.00
		12	304.8	Prefix(†)-12-(*)-HB90-12	18	457.20	18	457.20	18	457.20
		18	457.2	Prefix(†)-18-(*)-HB90-12	21	533.40	21	533.40	21	533.40
		24	609.6	Prefix(†)-24-(*)-HB90-12	24	609.60	24	609.60	24	609.60
		30	762	Prefix(†)-30-(*)-HB90-12	27	685.80	27	685.80	27	685.80
		36	914.4	Prefix(†)-36-(*)-HB90-12	30	762.00	30	762.00	30	762.00
24	609.6	6	152.4	Prefix(†)-06-(*)-HB90-24	27	685.80	27	685.80	17	685.80
		12	304.8	Prefix(†)-12-(*)-HB90-24	30	762.00	30	762.00	30	762.00
		18	457.2	Prefix(†)-18-(*)-HB90-24	33	838.20	33	838.20	33	838.20
		24	609.6	Prefix(†)-24-(*)-HB90-24	36	914.40	36	914.40	36	914.40
		30	762	Prefix(†)-30-(*)-HB90-24	39	990.60	39	990.60	39	990.60
		36	914.4	Prefix(†)-36-(*)-HB90-24	42	1066.80	42	1066.80	42	1066.80
36	914.4	6	152.4	Prefix(†)-06-(*)-HB90-36	39	990.60	39	990.60	39	990.60
		12	304.8	Prefix(†)-12-(*)-HB90-36	42	1066.80	42	1066.80	42	1066.80
		18	457.2	Prefix(†)-18-(*)-HB90-36	45	1143.00	45	1143.00	45	1143.00
		24	609.6	Prefix(†)-24-(*)-HB90-36	48	1219.20	48	1219.20	48	1219.20
		30	762	Prefix(†)-30-(*)-HB90-36	51	1295.40	51	1295.40	51	1295.40
		36	914.4	Prefix(†)-36-(*)-HB90-36	54	1371.60	54	1371.60	54	1371.60

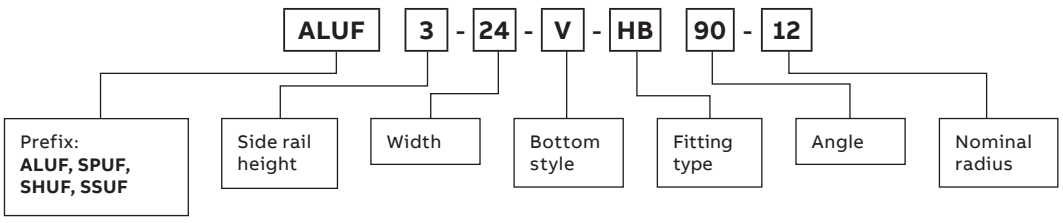
(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Includes one pair of splice plates with hardware.

*Dimension
Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Angle: 90°
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

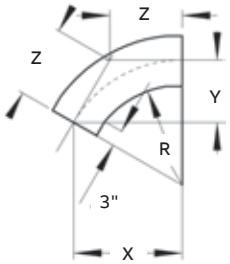
Fitting number selection



Metallic - One-piece tray

60° Horizontal bend fittings

60° Horizontal bend



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HB60-12	14⅞"	377.83	8⅝"	219.08	9¹⁵⁄₁₆"	252.41
		12	304.8	Prefix(†)-12-(*)-HB60-12	17½"	444.50	10⅛"	257.18	11¹¹⁄₁₆"	296.86
		18	457.2	Prefix(†)-18-(*)-HB60-12	20⅛"	509.59	11⅝"	295.28	13⅜"	339.73
		24	609.6	Prefix(†)-24-(*)-HB60-12	22¹¹⁄₁₆"	576.26	13⅛"	333.38	15⅛"	384.18
		30	762	Prefix(†)-30-(*)-HB60-12	25⅝"	642.94	14⅝"	371.48	16⅞"	428.63
		36	914.4	Prefix(†)-36-(*)-HB60-12	27⅞"	708.03	16⅛"	409.58	18⁹⁄₁₆"	471.49
24	609.6	6	152.4	Prefix(†)-06-(*)-HB60-24	25⅝"	642.94	14⅝"	371.48	16⅞"	428.63
		12	304.8	Prefix(†)-12-(*)-HB60-24	27⅞"	708.03	16⅛"	409.58	18⁹⁄₁₆"	471.49
		18	457.2	Prefix(†)-18-(*)-HB60-24	30½"	774.70	17⅝"	447.68	16⅞"	428.63
		24	609.6	Prefix(†)-24-(*)-HB60-24	33⅛"	839.79	19⅛"	485.78	18⁹⁄₁₆"	471.49
		30	762	Prefix(†)-30-(*)-HB60-24	35¹¹⁄₁₆"	906.46	20⅝"	523.88	39⅝"	1006.48
		36	914.4	Prefix(†)-36-(*)-HB60-24	38¼"	971.55	22⅛"	561.98	42⅝"	1082.68
36	914.4	6	152.4	Prefix(†)-06-(*)-HB60-36	35¹¹⁄₁₆"	906.46	20⅝"	523.88	39⅝"	1006.48
		12	304.8	Prefix(†)-12-(*)-HB60-36	38¼"	971.55	22⅛"	561.98	23¹³⁄₁₆"	604.84
		18	457.2	Prefix(†)-18-(*)-HB60-36	40⅞"	1038.23	23⅝"	600.08	27⅝"	701.68
		24	609.6	Prefix(†)-24-(*)-HB60-36	43½"	1104.90	25⅛"	638.18	29"	736.60
		30	762	Prefix(†)-30-(*)-HB60-36	46⅛"	1169.99	26⅝"	676.28	32¹¹⁄₁₆"	830.26
		36	914.4	Prefix(†)-36-(*)-HB60-36	48¹¹⁄₁₆"	1236.66	28⅛"	714.38	32⅞"	823.91

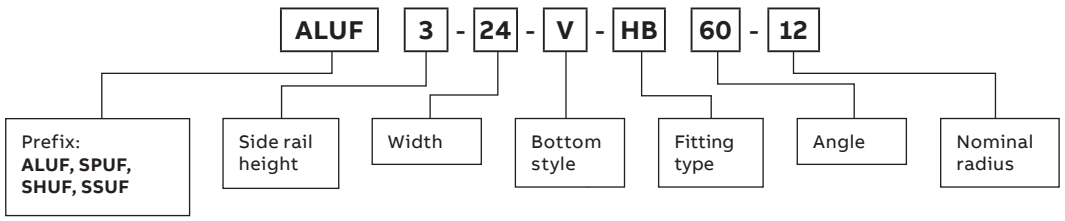
(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Includes one pair of splice plates with hardware.

*Dimension
Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Angle: 60°
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

Fitting number selection

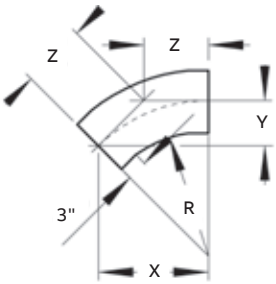


Metallic - One-piece tray

45° Horizontal bend fittings

45° Horizontal bend

Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HB45-12	13⅝"	346.08	5⅝"	142.88	8"	203.20
		12	304.8	Prefix(†)-12-(*)-HB45-12	15¾"	400.05	6½"	165.10	9³⁄₁₆"	233.36
		18	457.2	Prefix(†)-18-(*)-HB45-12	17⅞"	454.03	7⅜"	187.33	10⁷⁄₁₆"	265.11
		24	609.6	Prefix(†)-24-(*)-HB45-12	20"	508.00	8¼"	209.55	11¹¹⁄₁₆"	296.86
		30	762	Prefix(†)-30-(*)-HB45-12	22¹⁄₁₆"	560.39	9⅛"	231.78	12¹⁵⁄₁₆"	328.61
		36	914.4	Prefix(†)-36-(*)-HB45-12	24³⁄₁₆"	614.36	10"	254.00	14³⁄₁₆"	360.36
24	609.6	6	152.4	Prefix(†)-06-(*)-HB45-24	22¹⁄₁₆"	560.39	9⅛"	231.78	12¹⁵⁄₁₆"	328.61
		12	304.8	Prefix(†)-12-(*)-HB45-24	24³⁄₁₆"	614.36	10"	254.00	14³⁄₁₆"	360.36
		18	457.2	Prefix(†)-18-(*)-HB45-24	26⁵⁄₁₆"	668.34	10¹⁵⁄₁₆"	277.81	15⁷⁄₁₆"	392.11
		24	609.6	Prefix(†)-24-(*)-HB45-24	28⁷⁄₁₆"	722.31	11¹³⁄₁₆"	300.04	16¹¹⁄₁₆"	423.86
		30	762	Prefix(†)-30-(*)-HB45-24	30⁹⁄₁₆"	776.29	12¹¹⁄₁₆"	322.26	17¹⁵⁄₁₆"	455.61
		36	914.4	Prefix(†)-36-(*)-HB45-24	32¹¹⁄₁₆"	830.26	13⁹⁄₁₆"	344.49	19⅛"	485.78
36	914.4	6	152.4	Prefix(†)-06-(*)-HB45-36	30⁹⁄₁₆"	776.29	12¹¹⁄₁₆"	322.26	17¹⁵⁄₁₆"	455.61
		12	304.8	Prefix(†)-12-(*)-HB45-36	32¹¹⁄₁₆"	830.26	13⁹⁄₁₆"	344.49	19⅛"	485.78
		18	457.2	Prefix(†)-18-(*)-HB45-36	34¹³⁄₁₆"	884.24	14⅞"	366.71	20⅜"	517.53
		24	609.6	Prefix(†)-24-(*)-HB45-36	36¹⁵⁄₁₆"	938.21	15⁹⁄₁₆"	388.94	21⅝"	549.28
		30	762	Prefix(†)-30-(*)-HB45-36	39¹⁄₁₆"	992.19	16⅜"	411.16	22⅞"	581.03
		36	914.4	Prefix(†)-36-(*)-HB45-36	41⅜"	1046.16	17¹⁄₁₆"	433.39	24⅛"	612.78



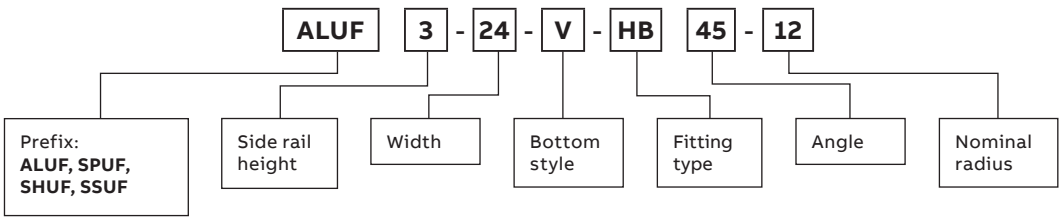
(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Includes one pair of splice plates with hardware.

*Dimension
Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Angle: 45°
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

Fitting number selection

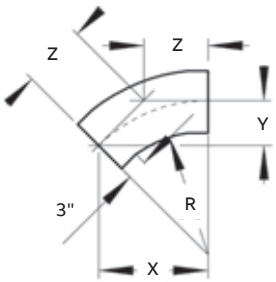


Metallic - One-piece tray

30° Horizontal bend fittings

30° Horizontal bend

Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HB30-12	11⅝	295.28	3⅛	79.38	6³⁄₁₆	100.01
		12	304.8	Prefix(†)-12-(*)-HB30-12	13½	342.90	3½	88.90	7	177.80
		18	457.2	Prefix(†)-18-(*)-HB30-12	14⅝	371.48	3¹⁵⁄₁₆	100.01	7¹³⁄₁₆	198.44
		24	609.6	Prefix(†)-24-(*)-HB30-12	16⅛	409.58	4⅜	109.54	8⅝	219.08
		30	762	Prefix(†)-30-(*)-HB30-12	17⅝	447.68	4¹¹⁄₁₆	119.06	9⁷⁄₁₆	239.71
		36	914.4	Prefix(†)-36-(*)-HB30-12	19⅛	485.78	5⅛	130.18	10¼	260.35
24	609.6	6	152.4	Prefix(†)-06-(*)-HB30-24	17⅝	447.68	4¹¹⁄₁₆	119.06	9⁷⁄₁₆	239.71
		12	304.8	Prefix(†)-12-(*)-HB30-24	19⅛	485.78	5⅛	130.18	10¼	260.35
		18	457.2	Prefix(†)-18-(*)-HB30-24	20⅝	523.88	5½	139.70	11⁁⁄₁₆	280.99
		24	609.6	Prefix(†)-24-(*)-HB30-24	22⅛	561.98	5¹⁵⁄₁₆	150.81	11¹³⁄₁₆	300.04
		30	762	Prefix(†)-30-(*)-HB30-24	23⅝	600.08	6⁵⁄₁₆	160.34	12⅝	320.68
		36	914.4	Prefix(†)-36-(*)-HB30-24	25⅛	638.18	6¾	171.45	13⁷⁄₁₆	341.31
36	914.4	6	152.4	Prefix(†)-06-(*)-HB30-36	23⅝	600.08	6⁵⁄₁₆	160.34	12⅝	320.68
		12	304.8	Prefix(†)-12-(*)-HB30-36	25⅛	638.18	6¾	171.45	13⁷⁄₁₆	341.31
		18	457.2	Prefix(†)-18-(*)-HB30-36	26⅝	676.28	7¼	184.15	14¼	361.95
		24	609.6	Prefix(†)-24-(*)-HB30-36	28⅛	714.38	7½	190.50	15⁁⁄₁₆	382.59
		30	762	Prefix(†)-30-(*)-HB30-36	29⅝	752.48	7¹⁵⁄₁₆	201.61	15⅞	403.23
		36	914.4	Prefix(†)-36-(*)-HB30-36	31⅛	790.58	8⁵⁄₁₆	211.14	16¹¹⁄₁₆	423.86



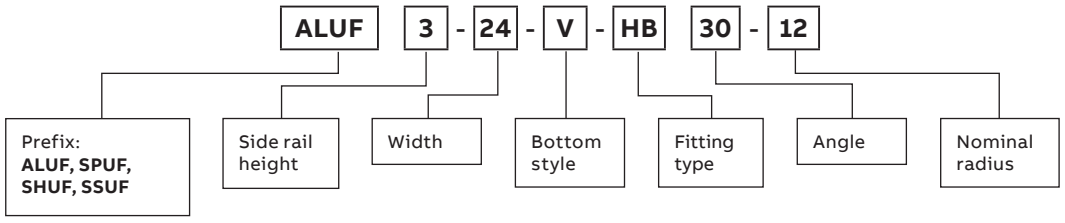
(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Includes one pair of splice plates with hardware.

*Dimension
Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Angle: 30°
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

Fitting number selection



Metallic - One-piece tray

Horizontal tee fittings

Horizontal tee

Solid

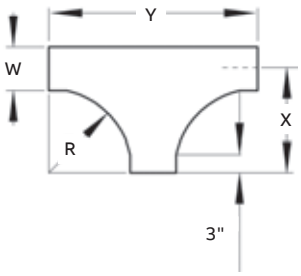
Ventilated

Nominal Radius		Nominal Width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HT12	15	381.00	30	762.00
		12	304.8	Prefix(†)-12-(*)-HT12	18	457.20	36	914.40
		18	457.2	Prefix(†)-18-(*)-HT12	21	533.40	42	1066.80
		24	609.6	Prefix(†)-24-(*)-HT12	24	609.60	48	1219.20
		30	762	Prefix(†)-30-(*)-HT12	27	685.80	54	1371.60
		36	914.4	Prefix(†)-36-(*)-HT12	30	762.00	60	1524.00
24	609.6	6	152.4	Prefix(†)-06-(*)-HT24	27	685.80	54	1371.60
		12	304.8	Prefix(†)-12-(*)-HT24	30	762.00	60	1524.00
		18	457.2	Prefix(†)-18-(*)-HT24	33	838.20	66	1676.40
		24	609.6	Prefix(†)-24-(*)-HT24	36	914.40	72	1828.80
		30	762	Prefix(†)-30-(*)-HT24	39	990.60	78	1981.20
		36	914.4	Prefix(†)-36-(*)-HT24	42	1066.80	84	2133.60
36	914.4	6	152.4	Prefix(†)-06-(*)-HT36	39	990.60	78	1981.20
		12	304.8	Prefix(†)-12-(*)-HT36	42	1066.80	84	2133.60
		18	457.2	Prefix(†)-18-(*)-HT36	45	1143.00	90	2286.00
		24	609.6	Prefix(†)-24-(*)-HT36	48	1219.20	96	2438.40
		30	762	Prefix(†)-30-(*)-HT36	51	1295.40	102	2590.80
		36	914.4	Prefix(†)-36-(*)-HT36	54	1371.60	108	2743.20

(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Tees include two pairs/crosses include three pairs of splice plates with hardware.

*Dimension Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

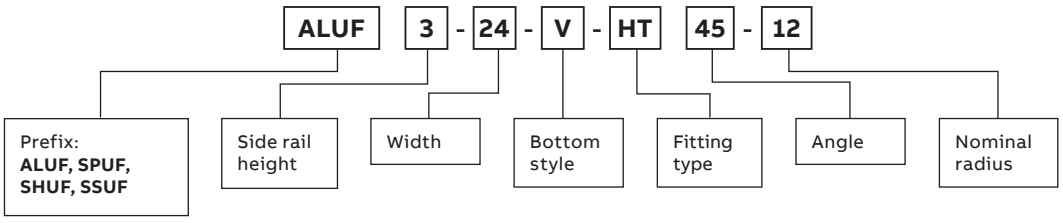
Dimensions



Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

Fitting number selection



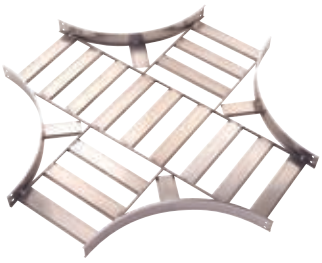
Metallic - One-piece tray

Horizontal cross and horizontal reducing tee fittings

Horizontal cross

Solid

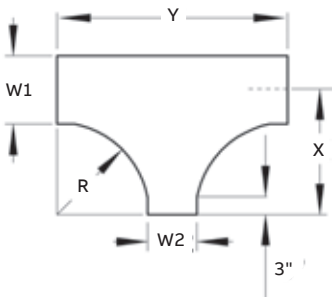
Ventilated



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Z (in)	Dimensions Z (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-HX12	15	381.00	30	762.00
		12	304.8	Prefix(†)-12-(*)-HX12	18	457.20	36	914.40
		18	457.2	Prefix(†)-18-(*)-HX12	21	533.40	42	1066.80
		24	609.6	Prefix(†)-24-(*)-HX12	24	609.60	48	1219.20
		30	762	Prefix(†)-30-(*)-HX12	27	685.80	54	1371.60
		36	914.4	Prefix(†)-36-(*)-HX12	30	762.00	60	1524.00
24	609.6	6	152.4	Prefix(†)-06-(*)-HX24	27	685.80	54	1371.60
		12	304.8	Prefix(†)-12-(*)-HX24	30	762.00	60	1524.00
		18	457.2	Prefix(†)-18-(*)-HX24	33	838.20	66	1676.40
		24	609.6	Prefix(†)-24-(*)-HX24	36	914.40	72	1828.80
		30	762	Prefix(†)-30-(*)-HX24	39	990.60	78	1981.20
		36	914.4	Prefix(†)-36-(*)-HX24	42	1066.80	84	2133.60
36	914.4	6	152.4	Prefix(†)-06-(*)-HX36	39	990.60	78	1981.20
		12	304.8	Prefix(†)-12-(*)-HX36	42	1066.80	84	2133.60
		18	457.2	Prefix(†)-18-(*)-HX36	45	1143.00	90	2286.00
		24	609.6	Prefix(†)-24-(*)-HX36	48	1219.20	96	2438.40
		30	762	Prefix(†)-30-(*)-HX36	51	1295.40	102	2590.80
		36	914.4	Prefix(†)-36-(*)-HX36	54	1371.60	108	2743.20

(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Tees include two pairs/crosses include three pairs of splice plates with hardware.

Horizontal reducing tee

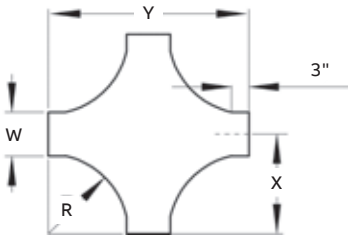


Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	30	762	Prefix(†)-3630-(*)-RT(+)	30	762.00	54	1371.60	42	1066.80	78	1981.20
		24	609.6	Prefix(†)-3624-(*)-RT(+)	30	762.00	48	1219.20	42	1066.80	72	1828.80
		18	457.2	Prefix(†)-3618-(*)-RT(+)	30	762.00	42	1066.80	42	1066.80	66	1676.40
		12	304.8	Prefix(†)-3612-(*)-RT(+)	30	762.00	36	914.40	42	1066.80	60	1524.00
		6	152.4	Prefix(†)-3606-(*)-RT(+)	30	762.00	30	762.00	42	1066.80	54	1371.60
30	762	24	609.6	Prefix(†)-3024-(*)-RT(+)	27	685.80	48	1219.20	39	990.60	72	1828.80
		18	457.2	Prefix(†)-3018-(*)-RT(+)	27	685.80	42	1066.80	39	990.60	66	1676.40
		12	304.8	Prefix(†)-3012-(*)-RT(+)	27	685.80	36	914.40	39	990.60	60	1524.00
		6	152.4	Prefix(†)-3006-(*)-RT(+)	27	685.80	30	762.00	39	990.60	54	1371.60
24	609.6	18	457.2	Prefix(†)-2418-(*)-RT(+)	24	609.60	42	1066.80	36	914.40	66	1676.40
		12	304.8	Prefix(†)-2412-(*)-RT(+)	24	609.60	36	914.40	36	914.40	60	1524.00
		6	152.4	Prefix(†)-2406-(*)-RT(+)	24	609.60	30	762.00	36	914.40	54	1371.60
18	457.2	12	304.8	Prefix(†)-1812-(*)-RT(+)	21	533.40	36	914.40	33	838.20	60	1524.00
		6	152.4	Prefix(†)-1806-(*)-RT(+)	21	533.40	30	762.00	33	838.20	54	1371.60
12	304.8	9	228.6	Prefix(†)-1206-(*)-RT(+)	18	457.20	30	762.00	30	762.00	54	1371.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)).
Includes two pairs of splice plates with hardware.

*Dimension Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

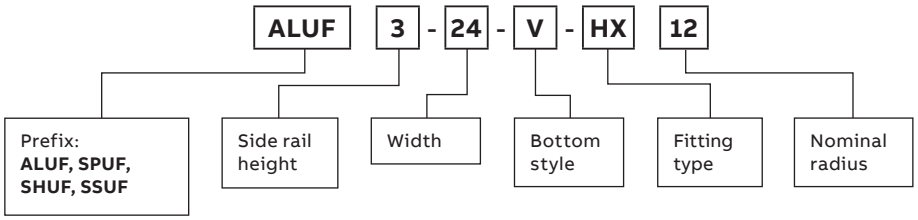
Cross dimensions



Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

Fitting number selection



Horizontal reducing tee (continued)

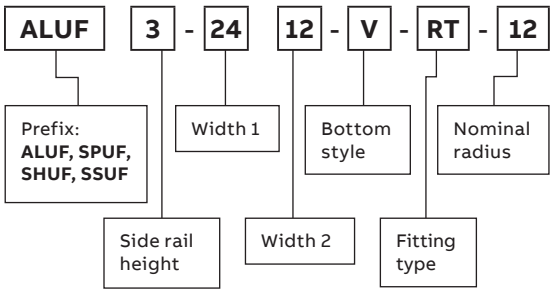
Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	X (mm)	Y (in)	Y (mm)
36	914.4	30	762	Prefix(†)-3630-(*)-RT(+)	54	1371.60	102	2590.80
		24	609.6	Prefix(†)-3624-(*)-RT(+)	54	1371.60	96	2438.40
		18	457.2	Prefix(†)-3618-(*)-RT(+)	54	1371.60	90	2286.00
		12	304.8	Prefix(†)-3612-(*)-RT(+)	54	1371.60	84	2133.60
		6	152.4	Prefix(†)-3606-(*)-RT(+)	54	1371.60	78	1981.20
30	762	24	609.6	Prefix(†)-3024-(*)-RT(+)	51	1295.40	96	2438.40
		18	457.2	Prefix(†)-3018-(*)-RT(+)	51	1295.40	90	2286.00
		12	304.8	Prefix(†)-3012-(*)-RT(+)	51	1295.40	84	2133.60
		6	152.4	Prefix(†)-3006-(*)-RT(+)	51	1295.40	78	1981.20
24	609.6	18	457.2	Prefix(†)-2418-(*)-RT(+)	48	1219.20	90	2286.00
		12	304.8	Prefix(†)-2412-(*)-RT(+)	48	1219.20	84	2133.60
		6	152.4	Prefix(†)-2406-(*)-RT(+)	48	1219.20	78	1981.20
18	457.2	12	304.8	Prefix(†)-1812-(*)-RT(+)	45	1143.00	84	2133.60
		6	152.4	Prefix(†)-1806-(*)-RT(+)	45	1143.00	78	1981.20
12	304.8	9	228.6	Prefix(†)-1206-(*)-RT(+)	42	1066.80	78	1981.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Tray widths W1: 36, 30, 24, 18, 12" (*mm)
- Tray widths W2: 30, 24, 18, 12, 6" (*mm)
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

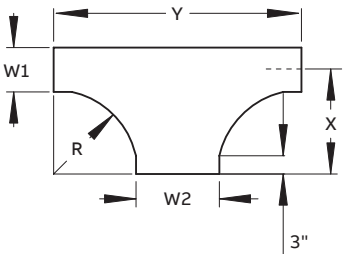
Fitting number selection



Metallic - One-piece tray

Horizontal expanding cross and tee fittings

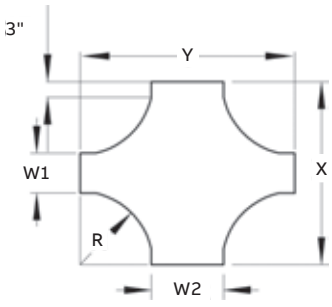
Horizontal expanding tee



Widths W1 (in)	W1 (mm)	W2 (in)	W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	X (mm)	Y (in)	Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	X (mm)	Y (in)	Y (mm)
30	762	36	914.4	Prefix(†)-3036-(*)-ET(+)	27	685.80	60	1524.00	39	990.60	84	2133.60
24	609.6	30	762	Prefix(†)-2430-(*)-ET(+)	24	609.60	54	1371.60	36	914.40	78	1981.20
		36	914.4	Prefix(†)-2436-(*)-ET(+)	24	609.60	60	1524.00	36	914.40	84	2133.60
18	457.2	24	609.6	Prefix(†)-1824-(*)-ET(+)	21	533.40	48	1219.20	33	838.20	72	1828.80
		30	762	Prefix(†)-1830-(*)-ET(+)	21	533.40	54	1371.60	33	838.20	78	1981.20
		36	914.4	Prefix(†)-1836-(*)-ET(+)	21	533.40	60	1524.00	33	838.20	84	2133.60
12	304.8	18	457.2	Prefix(†)-1218-(*)-ET(+)	18	457.20	42	1066.80	30	762.00	66	1676.40
		24	609.6	Prefix(†)-1224-(*)-ET(+)	18	457.20	48	1219.20	30	762.00	72	1828.80
		30	762	Prefix(†)-1230-(*)-ET(+)	18	457.20	54	1371.60	30	762.00	78	1981.20
		36	914.4	Prefix(†)-1236-(*)-ET(+)	18	457.20	60	1524.00	30	762.00	84	2133.60
6	152.4	12	304.8	Prefix(†)-0612-(*)-ET(+)	15	381.00	36	914.40	27	685.80	60	1524.00
		18	457.2	Prefix(†)-0618-(*)-ET(+)	15	381.00	42	1066.80	27	685.80	66	1676.40
		24	609.6	Prefix(†)-0624-(*)-ET(+)	15	381.00	48	1219.20	27	685.80	72	1828.80
		30	762	Prefix(†)-0630-(*)-ET(+)	15	381.00	54	1371.60	27	685.80	78	1981.20
		36	914.4	Prefix(†)-0636-(*)-ET(+)	15	381.00	60	1524.00	27	685.80	84	2133.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)).
Includes two pairs of splice plates with hardware.

Horizontal expanding cross



Widths W1 (in)	W1 (mm)	W2 (in)	W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	X (mm)	Y (in)	Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	X (mm)	Y (in)	Y (mm)
30	762	36	914.4	Prefix(†)-3036-(*)-EX(+)	54	1371.60	60	1524.00	78	1981.20	84	2133.60
24	609.6	30	762	Prefix(†)-2430-(*)-EX(+)	48	1219.20	54	1371.60	72	1828.80	78	1981.20
		36	914.4	Prefix(†)-2436-(*)-EX(+)	48	1219.20	60	1524.00	72	1828.80	84	2133.60
18	457.2	24	609.6	Prefix(†)-1824-(*)-EX(+)	42	1066.80	48	1219.20	66	1676.40	72	1828.80
		30	762	Prefix(†)-1830-(*)-EX(+)	42	1066.80	54	1371.60	66	1676.40	78	1981.20
		36	914.4	Prefix(†)-1836-(*)-EX(+)	42	1066.80	60	1524.00	66	1676.40	84	2133.60
12	304.8	18	457.2	Prefix(†)-1218-(*)-EX(+)	36	914.40	42	1066.80	60	1524.00	66	1676.40
		24	609.6	Prefix(†)-1224-(*)-EX(+)	36	914.40	48	1219.20	60	1524.00	72	1828.80
		30	762	Prefix(†)-1230-(*)-EX(+)	36	914.40	54	1371.60	60	1524.00	78	1981.20
		36	914.4	Prefix(†)-1236-(*)-EX(+)	36	914.40	60	1524.00	60	1524.00	84	2133.60
6	152.4	12	304.8	Prefix(†)-0612-(*)-EX(+)	30	762.00	36	914.40	54	1371.60	60	1524.00
		18	457.2	Prefix(†)-0618-(*)-EX(+)	30	762.00	42	1066.80	54	1371.60	66	1676.40
		24	609.6	Prefix(†)-0624-(*)-EX(+)	30	762.00	48	1219.20	54	1371.60	72	1828.80
		30	762	Prefix(†)-0630-(*)-EX(+)	30	762.00	54	1371.60	54	1371.60	78	1981.20
		36	914.4	Prefix(†)-0636-(*)-EX(+)	30	762.00	60	1524.00	54	1371.60	84	2133.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)).
Includes two pairs of splice plates with hardware.

*Dimension Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

—

Horizontal expanding tee (continued)

Widths					(+) 36" (914.4mm) Nominal radius			
W1		W2						
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
30	762	36	914.4	Prefix(†)-3036-(*)-ET(+)	51	1295.40	108	2743.20
24	609.6	30	762	Prefix(†)-2430-(*)-ET(+)	48	1219.20	102	2590.80
		36	914.4	Prefix(†)-2436-(*)-ET(+)	48	1219.20	108	2743.20
18	457.2	24	609.6	Prefix(†)-1824-(*)-ET(+)	45	1143.00	96	2438.40
		30	762	Prefix(†)-1830-(*)-ET(+)	45	1143.00	102	2590.80
		36	914.4	Prefix(†)-1836-(*)-ET(+)	45	1143.00	108	2743.20
12	304.8	18	457.2	Prefix(†)-1218-(*)-ET(+)	42	1066.80	90	2286.00
		24	609.6	Prefix(†)-1224-(*)-ET(+)	42	1066.80	96	2438.40
		30	762	Prefix(†)-1230-(*)-ET(+)	42	1066.80	102	2590.80
		36	914.4	Prefix(†)-1236-(*)-ET(+)	42	1066.80	108	2743.20
6	152.4	12	304.8	Prefix(†)-0612-(*)-ET(+)	39	990.60	84	2133.60
		18	457.2	Prefix(†)-0618-(*)-ET(+)	39	990.60	90	2286.00
		24	609.6	Prefix(†)-0624-(*)-ET(+)	39	990.60	96	2438.40
		30	762	Prefix(†)-0630-(*)-ET(+)	39	990.60	102	2590.80
		36	914.4	Prefix(†)-0636-(*)-ET(+)	39	990.60	108	2743.20

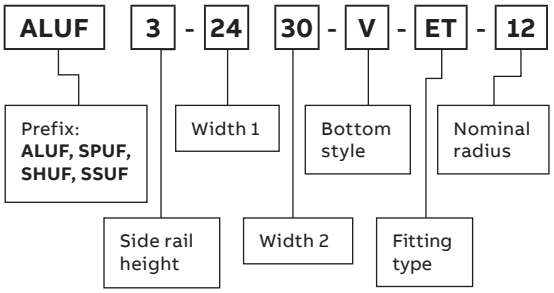
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Tray widths W1: 36, 30, 24, 18, 12" (*mm)
- Tray widths W2: 30, 24, 18, 12, 6" (*mm)
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

—

Fitting number selection



—

Horizontal expanding cross (continued)

Widths					(+) 36" (914.4mm) Nominal radius			
W1		W2						
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
30	762	36	914.4	Prefix(†)-3036-(*)-EX(+)	102	2590.80	108	2743.20
24	609.6	30	762	Prefix(†)-2430-(*)-EX(+)	96	2438.40	102	2590.80
		36	914.4	Prefix(†)-2436-(*)-EX(+)	96	2438.40	108	2743.20
18	457.2	24	609.6	Prefix(†)-1824-(*)-EX(+)	90	2286.00	96	2438.40
		30	762	Prefix(†)-1830-(*)-EX(+)	90	2286.00	102	2590.80
		36	914.4	Prefix(†)-1836-(*)-EX(+)	90	2286.00	108	2743.20
12	304.8	18	457.2	Prefix(†)-1218-(*)-EX(+)	84	2133.60	90	2286.00
		24	609.6	Prefix(†)-1224-(*)-EX(+)	84	2133.60	96	2438.40
		30	762	Prefix(†)-1230-(*)-EX(+)	84	2133.60	102	2590.80
		36	914.4	Prefix(†)-1236-(*)-EX(+)	84	2133.60	108	2743.20
6	152.4	12	304.8	Prefix(†)-0612-(*)-EX(+)	78	1981.20	84	2133.60
		18	457.2	Prefix(†)-0618-(*)-EX(+)	78	1981.20	90	2286.00
		24	609.6	Prefix(†)-0624-(*)-EX(+)	78	1981.20	96	2438.40
		30	762	Prefix(†)-0630-(*)-EX(+)	78	1981.20	102	2590.80
		36	914.4	Prefix(†)-0636-(*)-EX(+)	78	1981.20	108	2743.20

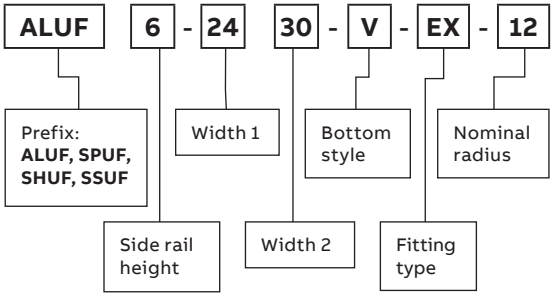
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Tray widths W1: 36, 30, 24, 18, 12" (*mm)
- Tray widths W2: 30, 24, 18, 12, 6" (*mm)
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

—

Fitting number selection

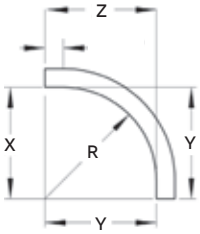


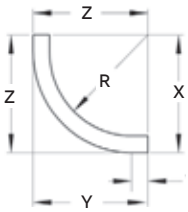
Metallic - One-piece tray

90° Vertical bend fittings

90° Vertical bend

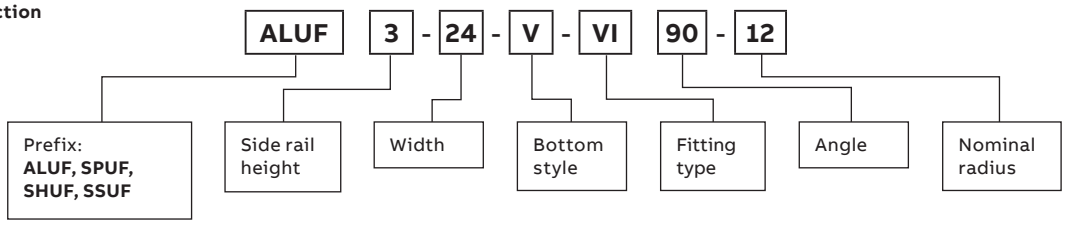
	Nominal Radius		Nominal Width			(+) VO side rail 2, 3, 6" (50.8, 76.2, 152.4mm)			(+) VI side rail 2" (50.8mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend ventilated	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)90-12	12 304.80	12 304.80	12 304.80	13⅞ 352.43	13⅞ 352.43	13⅞ 352.43
			9	228.6	Prefix(†)-09-(*)-(+)90-12						
			12	304.8	Prefix(†)-12-(*)-(+)90-12						
			18	457.2	Prefix(†)-18-(*)-(+)90-12						
			24	609.6	Prefix(†)-24-(*)-(+)90-12						
			30	762	Prefix(†)-30-(*)-(+)90-12						
			36	914.4	Prefix(†)-36-(*)-(+)90-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)90-24	24 609.60	24 609.60	24 609.60	25⅞ 657.23	25⅞ 657.23	25⅞ 657.23
			9	228.6	Prefix(†)-09-(*)-(+)90-24						
			12	304.8	Prefix(†)-12-(*)-(+)90-24						
			18	457.2	Prefix(†)-18-(*)-(+)90-24						
			24	609.6	Prefix(†)-24-(*)-(+)90-24						
			30	762	Prefix(†)-30-(*)-(+)90-24						
			36	914.4	Prefix(†)-36-(*)-(+)90-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-24						
Inside bend ventilated	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)90-36	36 914.40	36 914.40	36 914.40	37⅞ 962.03	37⅞ 962.03	37⅞ 962.03
			9	228.6	Prefix(†)-09-(*)-(+)90-36						
			12	304.8	Prefix(†)-12-(*)-(+)90-36						
			18	457.2	Prefix(†)-18-(*)-(+)90-36						
			24	609.6	Prefix(†)-24-(*)-(+)90-36						
			30	762	Prefix(†)-30-(*)-(+)90-36						
			36	914.4	Prefix(†)-36-(*)-(+)90-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-36						





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No.
Includes one pair of splice plates with hardware.

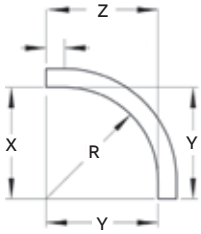
Fitting number selection

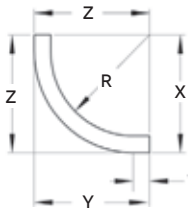


—

90° Vertical bend (continued)

	Nominal Radius		Nominal Width			(+) VI side rail					
						3" (76.2mm)			6" (152.4mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend ventilated	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)90-12	15⅝ 396.88	15⅝ 396.88	15⅝ 396.88	18³⁄₁₆ 461.96	18³⁄₁₆ 461.96	18³⁄₁₆ 461.96
			9	228.6	Prefix(†)-09-(*)-(+)90-12						
			12	304.8	Prefix(†)-12-(*)-(+)90-12						
			18	457.2	Prefix(†)-18-(*)-(+)90-12						
			24	609.6	Prefix(†)-24-(*)-(+)90-12						
			30	762	Prefix(†)-30-(*)-(+)90-12						
			36	914.4	Prefix(†)-36-(*)-(+)90-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)90-24	27⅝ 701.68	27⅝ 701.68	27⅝ 701.68	30³⁄₁₆ 766.76	30³⁄₁₆ 766.76	30³⁄₁₆ 766.76
			9	228.6	Prefix(†)-09-(*)-(+)90-24						
			12	304.8	Prefix(†)-12-(*)-(+)90-24						
			18	457.2	Prefix(†)-18-(*)-(+)90-24						
			24	609.6	Prefix(†)-24-(*)-(+)90-24						
			30	762	Prefix(†)-30-(*)-(+)90-24						
			36	914.4	Prefix(†)-36-(*)-(+)90-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-24						
Inside bend ventilated	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)90-36	39⅝ 1006.48	39⅝ 1006.48	39⅝ 1006.48	42³⁄₁₆ 1147.76	42³⁄₁₆ 1147.76	42³⁄₁₆ 1147.76
			9	228.6	Prefix(†)-09-(*)-(+)90-36						
			12	304.8	Prefix(†)-12-(*)-(+)90-36						
			18	457.2	Prefix(†)-18-(*)-(+)90-36						
			24	609.6	Prefix(†)-24-(*)-(+)90-36						
			30	762	Prefix(†)-30-(*)-(+)90-36						
			36	914.4	Prefix(†)-36-(*)-(+)90-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)90-36						





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No.
Includes one pair of splice plates with hardware.

—

*Dimension Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

Selection guide

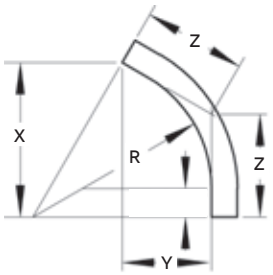
- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 12, 18, 24, 30, 36" (*mm)
- Angle: 90°
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

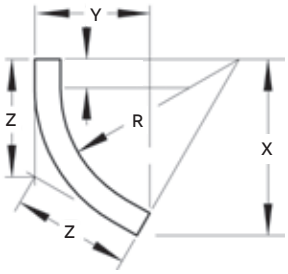
Metallic - Steel fittings

60° Vertical bend fittings

60° Vertical bend

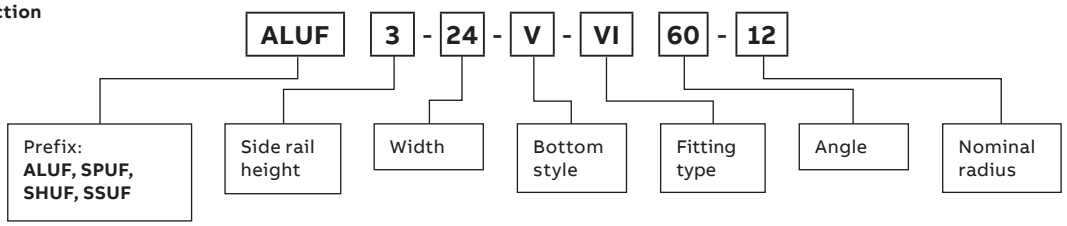
	Nominal Radius		Nominal Width			(+) VO side rail 2, 3, 6" (50.8, 76.2, 152.4mm)			(+) VI side rail 2" (50.8mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)45-12	10 3/8 263.53	6 152.40	6 15/16 176.21	12 304.80	7 7/8 200.03	8 203.20
			9	228.6	Prefix(†)-09-(*)-(+)45-12						
			12	304.8	Prefix(†)-12-(*)-(+)45-12						
			18	457.2	Prefix(†)-18-(*)-(+)45-12						
			24	609.6	Prefix(†)-24-(*)-(+)45-12						
			30	762	Prefix(†)-30-(*)-(+)45-12						
			36	914.4	Prefix(†)-36-(*)-(+)45-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)45-24	20 13/16 528.64	12 304.80	13 7/8 352.43	22 7/16 569.91	13 7/8 352.43	14 15/16 379.41
			9	228.6	Prefix(†)-09-(*)-(+)45-24						
			12	304.8	Prefix(†)-12-(*)-(+)45-24						
			18	457.2	Prefix(†)-18-(*)-(+)45-24						
			24	609.6	Prefix(†)-24-(*)-(+)45-24						
			30	762	Prefix(†)-30-(*)-(+)45-24						
			36	914.4	Prefix(†)-36-(*)-(+)45-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-24						
Inside bend	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)45-36	31 3/16 792.16	18 457.20	20 13/16 528.64	32 13/16 833.44	19 7/8 504.83	21 7/8 555.63
			9	228.6	Prefix(†)-09-(*)-(+)45-36						
			12	304.8	Prefix(†)-12-(*)-(+)45-36						
			18	457.2	Prefix(†)-18-(*)-(+)45-36						
			24	609.6	Prefix(†)-24-(*)-(+)45-36						
			30	762	Prefix(†)-30-(*)-(+)45-36						
			36	914.4	Prefix(†)-36-(*)-(+)45-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-36						





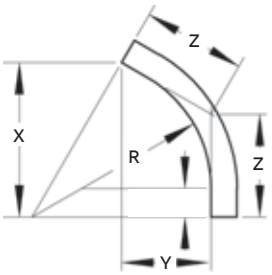
(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No.
Includes one pair of splice plates with hardware.

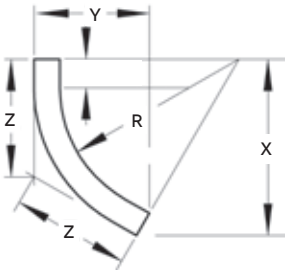
Fitting number selection



60° Vertical bend (continued)

	Nominal Radius		Nominal Width			(+) VI side rail					
						3" (76.2mm)			6" (152.4mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)45-12	13½ 342.90	9⅝ 244.48	9 228.60	15¾ 400.05	12³⁄₁₆ 309.56	10½ 266.70
			9	228.6	Prefix(†)-09-(*)-(+)45-12						
			12	304.8	Prefix(†)-12-(*)-(+)45-12						
			18	457.2	Prefix(†)-18-(*)-(+)45-12						
			24	609.6	Prefix(†)-24-(*)-(+)45-12						
			30	762	Prefix(†)-30-(*)-(+)45-12						
			36	914.4	Prefix(†)-36-(*)-(+)45-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)45-24	23¹⁵⁄₁₆ 608.01	15⅝ 396.88	15¹⁵⁄₁₆ 404.81	26⅛ 663.58	18³⁄₁₆ 461.96	17⁷⁄₁₆ 442.91
			9	228.6	Prefix(†)-09-(*)-(+)45-24						
			12	304.8	Prefix(†)-12-(*)-(+)45-24						
			18	457.2	Prefix(†)-18-(*)-(+)45-24						
			24	609.6	Prefix(†)-24-(*)-(+)45-24						
			30	762	Prefix(†)-30-(*)-(+)45-24						
			36	914.4	Prefix(†)-36-(*)-(+)45-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-24						
Inside bend	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)45-36	34⁵⁄₁₆ 871.54	21⅝ 549.28	22⅞ 581.03	36½ 927.10	24³⁄₁₆ 614.36	24⅜ 619.13
			9	228.6	Prefix(†)-09-(*)-(+)45-36						
			12	304.8	Prefix(†)-12-(*)-(+)45-36						
			18	457.2	Prefix(†)-18-(*)-(+)45-36						
			24	609.6	Prefix(†)-24-(*)-(+)45-36						
			30	762	Prefix(†)-30-(*)-(+)45-36						
			36	914.4	Prefix(†)-36-(*)-(+)45-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-36						





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No.
Includes one pair of splice plates with hardware.

*Dimension Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

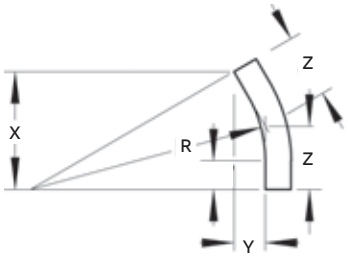
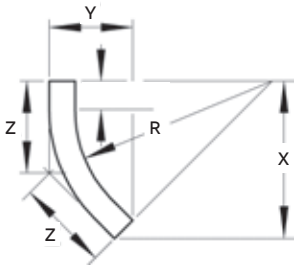
Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 12, 18, 24, 30, 36" (*mm)
- Angle: 60°
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

Metallic - Steel fittings

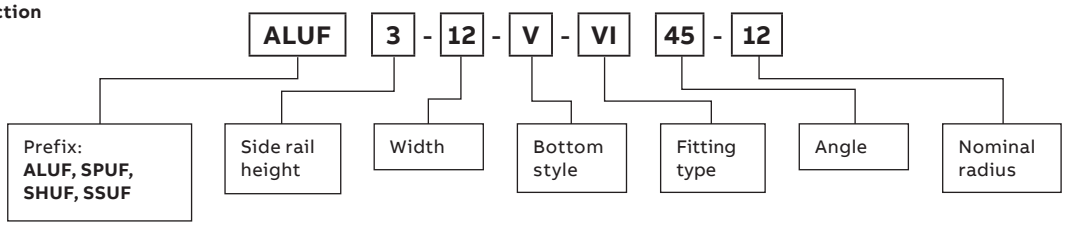
45° Vertical bend fittings

45° Vertical bend

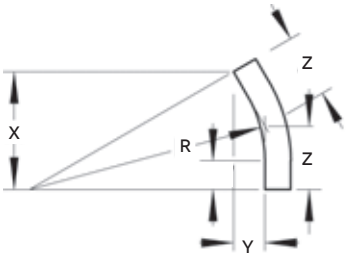
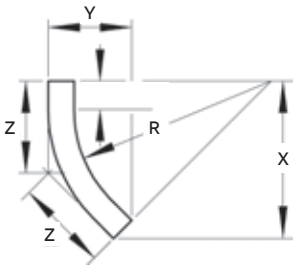
	Nominal Radius		Nominal Width			(+) VO side rail 2, 3, 6" (50.8, 76.2, 152.4mm)			(+) VI side rail 2" (50.8mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend 	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)45-12	8½ 215.90	3½ 88.90	5 127.00	9 13/16 249.24	5⅜ 136.53	5¾ 146.05
			9	228.6	Prefix(†)-09-(*)-(+)45-12						
			12	304.8	Prefix(†)-12-(*)-(+)45-12						
			18	457.2	Prefix(†)-18-(*)-(+)45-12						
			24	609.6	Prefix(†)-24-(*)-(+)45-12						
			30	762	Prefix(†)-30-(*)-(+)45-12						
			36	914.4	Prefix(†)-36-(*)-(+)45-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)45-24	17 431.80	7 431.80	9 15/16 252.41	18 5/16 465.14	8⅞ 225.43	10 11/16 271.46
			9	228.6	Prefix(†)-09-(*)-(+)45-24						
			12	304.8	Prefix(†)-12-(*)-(+)45-24						
			18	457.2	Prefix(†)-18-(*)-(+)45-24						
			24	609.6	Prefix(†)-24-(*)-(+)45-24						
			30	762	Prefix(†)-30-(*)-(+)45-24						
			36	914.4	Prefix(†)-36-(*)-(+)45-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-24						
Inside bend 	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)45-36	25 7/16 646.11	10 9/16 268.29	14 15/16 379.41	26 13/16 681.04	12 7/16 315.91	15 11/16 398.46
			9	228.6	Prefix(†)-09-(*)-(+)45-36						
			12	304.8	Prefix(†)-12-(*)-(+)45-36						
			18	457.2	Prefix(†)-18-(*)-(+)45-36						
			24	609.6	Prefix(†)-24-(*)-(+)45-36						
			30	762	Prefix(†)-30-(*)-(+)45-36						
			36	914.4	Prefix(†)-36-(*)-(+)45-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-36						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No.
Includes one pair of splice plates with hardware.

Fitting number selection



45° Vertical bend (continued)

	Nominal Radius		Nominal Width			(+) VI side rail					
						3" (76.2mm)			6" (152.4mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend 	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)45-12	11 1/16 280.99	7 1/8 180.98	6 11/16 169.86	12 7/8 327.03	9 11/16 246.06	7 9/16 192.09
			9	228.6	Prefix(†)-09-(*)-(+)45-12						
			12	304.8	Prefix(†)-12-(*)-(+)45-12						
			18	457.2	Prefix(†)-18-(*)-(+)45-12						
			24	609.6	Prefix(†)-24-(*)-(+)45-12						
			30	762	Prefix(†)-30-(*)-(+)45-12						
			36	914.4	Prefix(†)-36-(*)-(+)45-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)45-24	19½ 495.30	10 5/8 269.88	11 7/16 290.51	21 3/8 542.93	13 3/16 334.96	12½ 317.50
			9	228.6	Prefix(†)-09-(*)-(+)45-24						
			12	304.8	Prefix(†)-12-(*)-(+)45-24						
			18	457.2	Prefix(†)-18-(*)-(+)45-24						
			24	609.6	Prefix(†)-24-(*)-(+)45-24						
			30	762	Prefix(†)-30-(*)-(+)45-24						
			36	914.4	Prefix(†)-36-(*)-(+)45-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-24						
Inside bend 	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)45-36	28 711.20	14 3/16 360.36	16 7/16 417.51	29 13/16 757.24	16¾ 425.45	17½ 444.50
			9	228.6	Prefix(†)-09-(*)-(+)45-36						
			12	304.8	Prefix(†)-12-(*)-(+)45-36						
			18	457.2	Prefix(†)-18-(*)-(+)45-36						
			24	609.6	Prefix(†)-24-(*)-(+)45-36						
			30	762	Prefix(†)-30-(*)-(+)45-36						
			36	914.4	Prefix(†)-36-(*)-(+)45-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)45-36						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No.
Includes one pair of splice plates with hardware.

*Dimension Conversion Table:
4" = 101.6mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

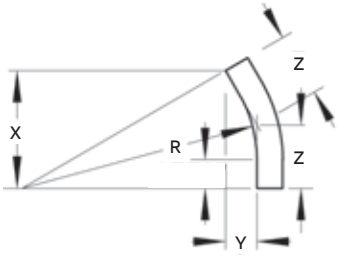
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (*mm)

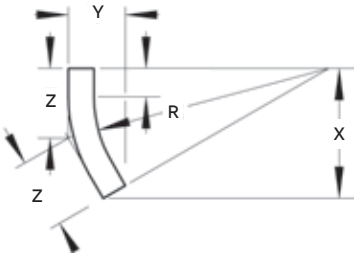
Metallic - Steel fittings

30° Vertical bend fittings

30° Vertical bend

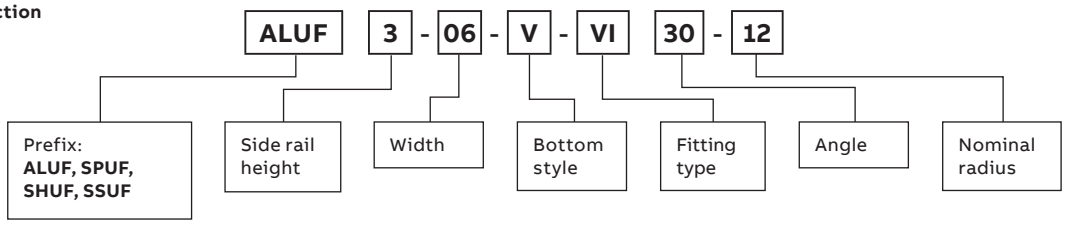
	Nominal Radius		Nominal Width			(+) VO side rail 2, 3, 6" (50.8, 76.2, 152.4mm)			(+) VI side rail 2" (50.8mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)30-12	6 152.40	1⅝ 41.28	3³⁄₁₆ 80.96	6¹⁵⁄₁₆ 176.21	3½ 88.90	3¹¹⁄₁₆ 93.66
			9	228.6	Prefix(†)-09-(*)-(+)30-12						
			12	304.8	Prefix(†)-12-(*)-(+)30-12						
			18	457.2	Prefix(†)-18-(*)-(+)30-12						
			24	609.6	Prefix(†)-24-(*)-(+)30-12						
			30	762	Prefix(†)-30-(*)-(+)30-12						
			36	914.4	Prefix(†)-36-(*)-(+)30-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)30-24	12 304.80	3³⁄₁₆ 80.96	6⁷⁄₁₆ 163.51	12¹⁵⁄₁₆ 328.61	5¹⁄₁₆ 128.59	6¹⁵⁄₁₆ 176.21
			9	228.6	Prefix(†)-09-(*)-(+)30-24						
			12	304.8	Prefix(†)-12-(*)-(+)30-24						
			18	457.2	Prefix(†)-18-(*)-(+)30-24						
			24	609.6	Prefix(†)-24-(*)-(+)30-24						
			30	762	Prefix(†)-30-(*)-(+)30-24						
			36	914.4	Prefix(†)-36-(*)-(+)30-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-24						
Inside bend	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)30-36	18 457.20	4¹³⁄₁₆ 122.24	9⅝ 244.48	18¹⁵⁄₁₆ 481.01	6¹¹⁄₁₆ 169.86	10¹⁄₈ 257.18
			9	228.6	Prefix(†)-09-(*)-(+)30-36						
			12	304.8	Prefix(†)-12-(*)-(+)30-36						
			18	457.2	Prefix(†)-18-(*)-(+)30-36						
			24	609.6	Prefix(†)-24-(*)-(+)30-36						
			30	762	Prefix(†)-30-(*)-(+)30-36						
			36	914.4	Prefix(†)-36-(*)-(+)30-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-36						





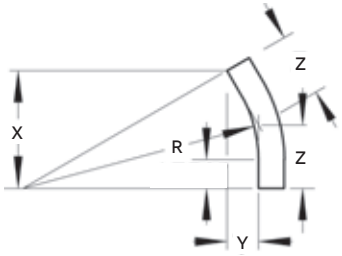
(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No.
Includes one pair of splice plates with hardware.

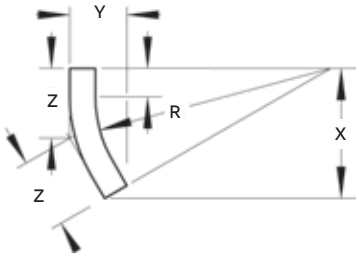
Fitting number selection



30° Vertical bend (continued)

	Nominal Radius		Nominal Width			(+) VI side rail					
						3" (76.2mm)			6" (152.4mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	Prefix(†)-06-(*)-(+)30-12	7 13/16 198.44	5 1/4 133.35	4 3/16 106.36	9 1/8 231.78	7 13/16 198.44	4 7/8 123.83
			9	228.6	Prefix(†)-09-(*)-(+)30-12						
			12	304.8	Prefix(†)-12-(*)-(+)30-12						
			18	457.2	Prefix(†)-18-(*)-(+)30-12						
			24	609.6	Prefix(†)-24-(*)-(+)30-12						
			30	762	Prefix(†)-30-(*)-(+)30-12						
			36	914.4	Prefix(†)-36-(*)-(+)30-12						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-12						
	24	609.6	6	152.4	Prefix(†)-06-(*)-(+)30-24	13 13/16 350.84	6 13/16 173.04	7 3/8 187.33	15 1/8 384.18	9 3/8 238.13	8 1/16 204.79
			9	228.6	Prefix(†)-09-(*)-(+)30-24						
			12	304.8	Prefix(†)-12-(*)-(+)30-24						
			18	457.2	Prefix(†)-18-(*)-(+)30-24						
			24	609.6	Prefix(†)-24-(*)-(+)30-24						
			30	762	Prefix(†)-30-(*)-(+)30-24						
			36	914.4	Prefix(†)-36-(*)-(+)30-24						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-24						
Inside bend	36	914.4	6	152.4	Prefix(†)-06-(*)-(+)30-36	19 13/16 503.24	8 7/16 214.31	10 5/8 269.88	21 1/8 536.58	11 279.40	11 5/16 287.34
			9	228.6	Prefix(†)-09-(*)-(+)30-36						
			12	304.8	Prefix(†)-12-(*)-(+)30-36						
			18	457.2	Prefix(†)-18-(*)-(+)30-36						
			24	609.6	Prefix(†)-24-(*)-(+)30-36						
			30	762	Prefix(†)-30-(*)-(+)30-36						
			36	914.4	Prefix(†)-36-(*)-(+)30-36						
			42	1,066.8	Prefix(†)-42-(*)-(+)30-36						





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat No.
Includes one pair of splice plates with hardware.

*Dimension Conversion Table:
4" = 101.6mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (*mm)

Metallic - One-piece tray

Horizontal reducer fittings

Straight reducer solid

Straight reducer ventilated

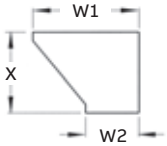
Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Tray widths W1: 36, 30, 24, 18, 12" (*mm)
- Tray widths W2: 30, 24, 18, 12, 6" (*mm)
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

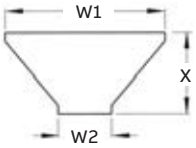
Horizontal reducer

Widths W1 (in)	Widths W1 (mm)	W2 (in)	W2 (mm)	Left reducer Cat. No.	Dim. X (in)	Dim. X (mm)	Straight reducer Cat. No.	Dim. X (in)	Dim. X (mm)	Right reducer Cat. No.	Dim. X (in)	Dim. X (mm)
36	914.4	30	762	Prefix(†)-36-30-(*)-HLR	15 7/16	392.11	Prefix(†)-36-30-(*)-HSR	13 3/4	349.25	Prefix(†)-36-30-(*)-HRR	15 7/16	392.11
		24	609.6	Prefix(†)-36-24-(*)-HLR	18 15/16	481.01	Prefix(†)-36-24-(*)-HSR	15 7/16	392.11	Prefix(†)-36-24-(*)-HRR	18 15/16	481.01
		18	457.2	Prefix(†)-36-18-(*)-HLR	22 3/8	568.33	Prefix(†)-36-18-(*)-HSR	17 3/8	441.33	Prefix(†)-36-18-(*)-HRR	22 3/8	568.33
		12	304.8	Prefix(†)-36-12-(*)-HLR	25 7/8	657.23	Prefix(†)-36-12-(*)-HSR	18 5/16	465.14	Prefix(†)-36-12-(*)-HRR	25 7/8	657.23
		6	152.4	Prefix(†)-36-06-(*)-HLR	29 5/16	744.54	Prefix(†)-36-06-(*)-HSR	20 11/16	525.46	Prefix(†)-36-06-(*)-HRR	29 5/16	744.54
30	762	24	609.6	Prefix(†)-30-24-(*)-HLR	15 7/16	392.11	Prefix(†)-30-24-(*)-HSR	13 3/4	349.25	Prefix(†)-30-24-(*)-HRR	15 7/16	392.11
		18	457.2	Prefix(†)-30-18-(*)-HLR	18 15/16	481.01	Prefix(†)-30-18-(*)-HSR	15 7/16	392.11	Prefix(†)-30-18-(*)-HRR	18 15/16	481.01
		12	304.8	Prefix(†)-30-12-(*)-HLR	22 3/8	568.33	Prefix(†)-30-12-(*)-HSR	17 3/16	441.33	Prefix(†)-30-12-(*)-HRR	22 3/8	568.33
		6	152.4	Prefix(†)-30-06-(*)-HLR	25 7/8	657.23	Prefix(†)-30-06-(*)-HSR	18 15/16	465.14	Prefix(†)-30-06-(*)-HRR	25 7/8	657.23
24	609.6	18	457.2	Prefix(†)-36-18-(*)-HLR	15 7/16	392.11	Prefix(†)-36-18-(*)-HSR	13 3/4	349.25	Prefix(†)-36-18-(*)-HRR	15 7/16	392.11
		12	304.8	Prefix(†)-36-12-(*)-HLR	18 15/16	481.01	Prefix(†)-36-12-(*)-HSR	15 7/16	392.11	Prefix(†)-36-12-(*)-HRR	18 15/16	481.01
		6	152.4	Prefix(†)-36-06-(*)-HLR	22 3/8	568.33	Prefix(†)-36-06-(*)-HSR	17 3/16	441.33	Prefix(†)-36-06-(*)-HRR	22 3/8	568.33
18	457.2	12	304.8	Prefix(†)-18-12-(*)-HLR	15 7/16	392.11	Prefix(†)-18-12-(*)-HSR	13 3/4	349.25	Prefix(†)-18-12-(*)-HRR	15 7/16	392.11
		9	228.6	Prefix(†)-18-06-(*)-HLR	17 3/16	481.01	Prefix(†)-18-06-(*)-HSR	14 5/8	392.11	Prefix(†)-18-06-(*)-HRR	17 3/16	481.01
12	304.8	6	152.4	Prefix(†)-12-06-(*)-HLR	15 7/16	392.11	Prefix(†)-12-06-(*)-HSR	13 3/4	349.25	Prefix(†)-12-06-(*)-HRR	15 7/16	392.11

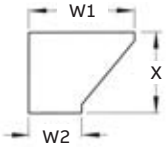
Offset reducer – right



Reducer – left



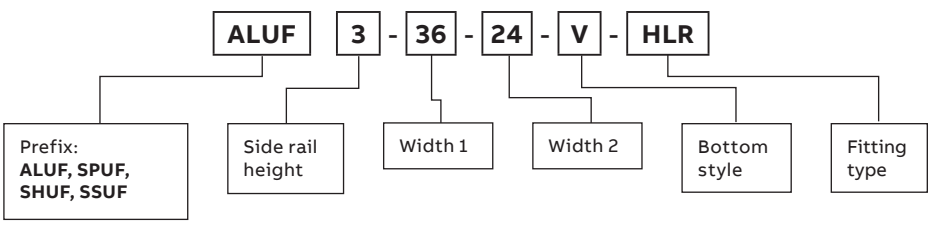
Offset reducer – left



(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Includes one pair of splice plates with hardware.

*Dimension Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

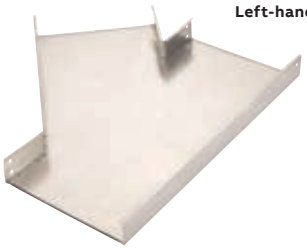
Fitting number selection



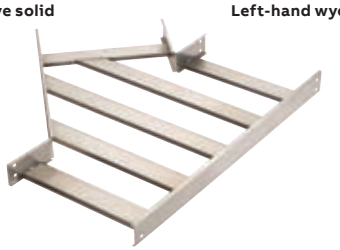
Metallic - One-piece tray

45° Horizontal wye fittings

Left-hand wye solid



Left-hand wye ventilated



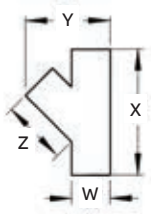
Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 12, 18, 24, 30, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

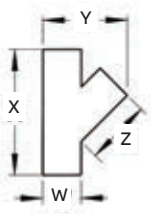
45° Horizontal wye

Width (in)	(mm)	Left-hand wye Cat. No.	Right-hand wye Cat. No.	Dimensions					
				X (in)	X(mm)	Y (in)	Y(mm)	Z (in)	Z (mm)
6	152.4	Prefix(†)-06-(*)-HYL	Prefix(†)-06-(*)-HYR	18 5/16	465.14	14 13/16	376.24	12 7/16	315.91
12	304.8	Prefix(†)-12-(*)-HYL	Prefix(†)-12-(*)-HYR	26 3/4	679.45	25	635.00	18 7/16	468.31
18	457.2	Prefix(†)-18-(*)-HYL	Prefix(†)-18-(*)-HYR	35 1/4	895.35	35 1/4	869.95	24 7/16	620.71
24	609.6	Prefix(†)-24-(*)-HYL	Prefix(†)-24-(*)-HYR	43 1/2	1104.90	45 1/2	1155.70	30 7/16	773.11
30	762	Prefix(†)-30-(*)-HYL	Prefix(†)-30-(*)-HYR	52 1/4	1327.15	55 3/4	1416.05	36 7/16	925.51
36	914.4	Prefix(†)-36-(*)-HYL	Prefix(†)-36-(*)-HYR	60 11/16	1541.46	66	1676.40	42 7/16	1077.91

Left-hand wye



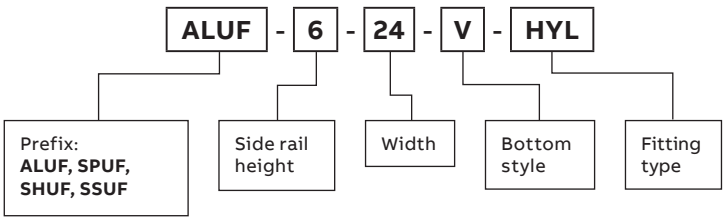
Right-hand wye



(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Includes two pairs of splice plates with hardware.

*Dimension
Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

Fitting number selection

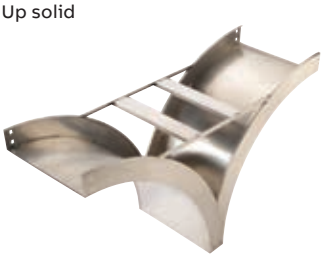


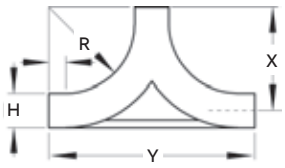
Metallic - One-piece tray

Vertical tee up/down fittings

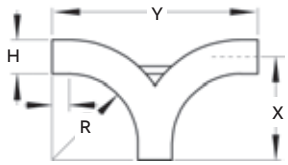
Vertical tee up/down

	Nominal Radius		Nominal Width				Side rail height "D"			
							2" (50.8mm)		3" (76.2mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up solid	12	304.8	6	152.4	Prefix(†)-06-(*)-VTU12	Prefix-06-(*)-VTD12	12 15/16 328.61	25 7/8 657.23	13 13/16 350.84	27 5/8 701.68
			12	304.8	Prefix(†)-12-(*)-VTU12	Prefix-12-(*)-VTD12				
			18	457.2	Prefix(†)-18-(*)-VTU12	Prefix-18-(*)-VTD12				
			24	609.6	Prefix(†)-24-(*)-VTU12	Prefix-24-(*)-VTD12				
			30	762	Prefix(†)-30-(*)-VTU12	Prefix-30-(*)-VTD12				
			36	914.4	Prefix(†)-36-(*)-VTU12	Prefix-36-(*)-VTD12				
	24	609.6	6	152.4	Prefix(†)-06-(*)-VTU24	Prefix-06-(*)-VTD24	24 15/16 633.41	49 7/8 1266.83	25 13/16 655.64	51 5/8 1311.28
			12	304.8	Prefix(†)-12-(*)-VTU24	Prefix-12-(*)-VTD24				
			18	457.2	Prefix(†)-18-(*)-VTU24	Prefix-18-(*)-VTD24				
			24	609.6	Prefix(†)-24-(*)-VTU24	Prefix-24-(*)-VTD24				
			30	762	Prefix(†)-30-(*)-VTU24	Prefix-30-(*)-VTD24				
			36	914.4	Prefix(†)-66-(*)-VTU24	Prefix-36-(*)-VTD24				
	36	914.4	6	152.4	Prefix(†)-06-(*)-VTU36	Prefix-06-(*)-VTD36	36 15/16 938.21	73 7/8 1876.43	37 13/16 960.44	75 5/8 1920.88
			12	304.8	Prefix(†)-12-(*)-VTU36	Prefix-12-(*)-VTD36				
			18	457.2	Prefix(†)-18-(*)-VTU36	Prefix-18-(*)-VTD36				
			24	609.6	Prefix(†)-24-(*)-VTU36	Prefix-24-(*)-VTD36				
			30	762	Prefix(†)-30-(*)-VTU36	Prefix-30-(*)-VTD36				
			36	914.4	Prefix(†)-36-(*)-VTU36	Prefix-36-(*)-VTD36				



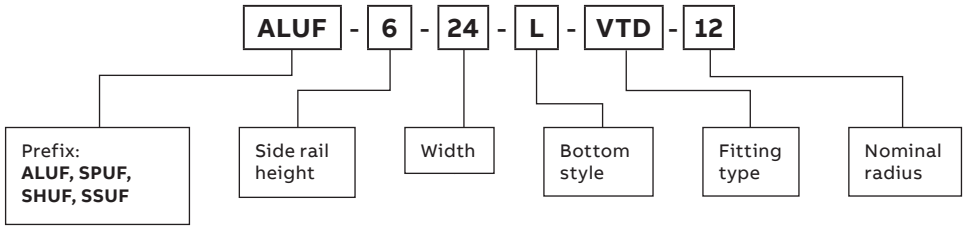


Down ventillated



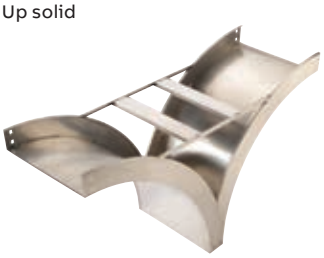
(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Includes two pairs of splice plates with hardware.

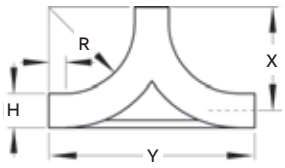
Fitting number selection



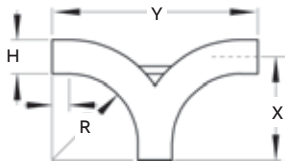
Vertical tee up/down (continued)

	Nominal Radius		Nominal Width				Side rail height "D"	
							6" (152.4mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)
Up solid	12	304.8	6	152.4	Prefix(†)-06-(*)-VTU12	Prefix-06-(*)-VTD12	15⅛ 384.18	30³⁄₁₆ 766.76
			12	304.8	Prefix(†)-12-(*)-VTU12	Prefix-12-(*)-VTD12		
			18	457.2	Prefix(†)-18-(*)-VTU12	Prefix-18-(*)-VTD12		
			24	609.6	Prefix(†)-24-(*)-VTU12	Prefix-24-(*)-VTD12		
			30	762	Prefix(†)-30-(*)-VTU12	Prefix-30-(*)-VTD12		
			36	914.4	Prefix(†)-36-(*)-VTU12	Prefix-36-(*)-VTD12		
	24	609.6	6	152.4	Prefix(†)-06-(*)-VTU24	Prefix-06-(*)-VTD24	27⅛ 688.98	54³⁄₁₆ 1376.36
			12	304.8	Prefix(†)-12-(*)-VTU24	Prefix-12-(*)-VTD24		
			18	457.2	Prefix(†)-18-(*)-VTU24	Prefix-18-(*)-VTD24		
			24	609.6	Prefix(†)-24-(*)-VTU24	Prefix-24-(*)-VTD24		
			30	762	Prefix(†)-30-(*)-VTU24	Prefix-30-(*)-VTD24		
			36	914.4	Prefix(†)-66-(*)-VTU24	Prefix-36-(*)-VTD24		
	36	914.4	6	152.4	Prefix(†)-06-(*)-VTU36	Prefix-06-(*)-VTD36	39⅛ 993.78	78³⁄₁₆ 1985.96
			12	304.8	Prefix(†)-12-(*)-VTU36	Prefix-12-(*)-VTD36		
			18	457.2	Prefix(†)-18-(*)-VTU36	Prefix-18-(*)-VTD36		
			24	609.6	Prefix(†)-24-(*)-VTU36	Prefix-24-(*)-VTD36		
			30	762	Prefix(†)-30-(*)-VTU36	Prefix-30-(*)-VTD36		
			36	914.4	Prefix(†)-36-(*)-VTU36	Prefix-36-(*)-VTD36		





Down ventillated



(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Includes two pairs of splice plates with hardware.

*Dimension Conversion Table:
4" = 101.6mm
6" = 152.4mm
7" = 177.8mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

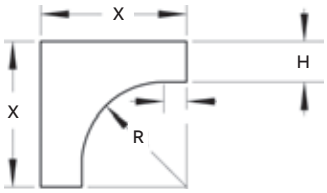
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (*mm)

Metallic - One-piece tray

Cable support fittings

Cable supports



Nominal Radius		Nominal Width			Side rail height "D"		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)
12	304.8	6	152.4	Prefix(†)-06-(*)-CS12	13⅞ 352.43	15⅝ 396.88	18 3⁄16 461.96
		12	304.8	Prefix(†)-12-(*)-CS12			
		18	457.2	Prefix(†)-18-(*)-CS12			
		24	609.6	Prefix(†)-24-(*)-CS12			
		30	762	Prefix(†)-30-(*)-CS12			
		36	914.4	Prefix(†)-36-(*)-CS12			
24	609.6	6	152.4	Prefix(†)-06-(*)-CS24	25⅞ 657.23	27⅝ 701.68	30 3⁄16 766.76
		12	304.8	Prefix(†)-12-(*)-CS24			
		18	457.2	Prefix(†)-18-(*)-CS24			
		24	609.6	Prefix(†)-24-(*)-CS24			
		30	762	Prefix(†)-30-(*)-CS24			
		36	914.4	Prefix(†)-36-(*)-CS24			
36	914.4	6	152.4	Prefix(†)-06-(*)-CS36	37⅞ 962.03	39⅝ 1006.48	42 3⁄16 1071.56
		12	304.8	Prefix(†)-12-(*)-CS36			
		18	457.2	Prefix(†)-18-(*)-CS36			
		24	609.6	Prefix(†)-24-(*)-CS36			
		30	762	Prefix(†)-30-(*)-CS36			
		36	914.4	Prefix(†)-36-(*)-CS36			

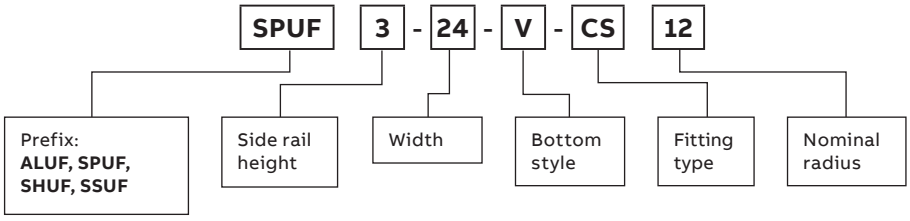
(†) Insert side rail depth. (*) Insert bottom style to complete Cat. No.
Includes one pair of splice plates with hardware.

*Dimension
Conversion Table:
2" = 50.8mm
3" = 76.2mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm

Selection guide

- Prefix: ALUF (aluminum), SPUF (pregalv.), SHUF (hot-dip galv.), SSUF (stainless steel)
- Inside tray widths: 6, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36" (*mm)
- Bottom styles: V - ventilated, S - solid
- Side rail depth: 2, 3, 6" (*mm)

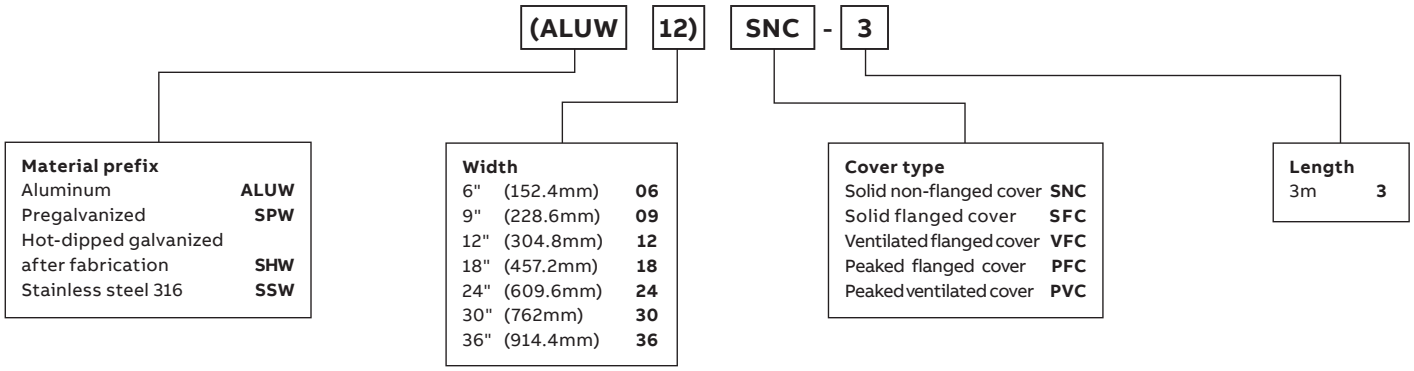
Fitting number selection



Metallic - One-piece tray covers

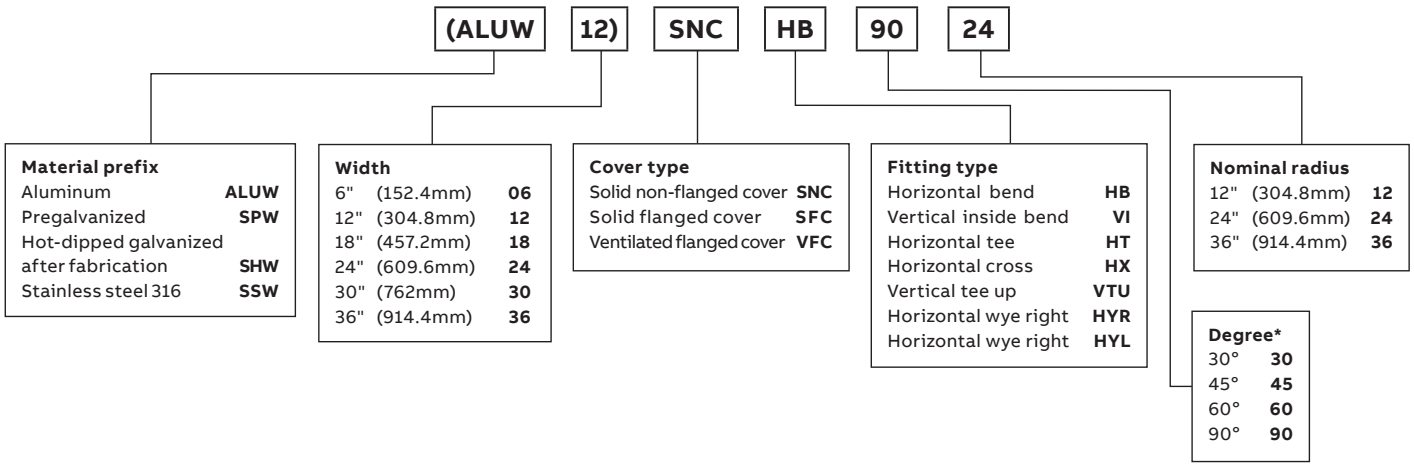
Straight & fitting covers

Straight covers - Number selection



* For SHW covers, maximum lengths are 72" and 1500mm.

Fitting covers - Number selection

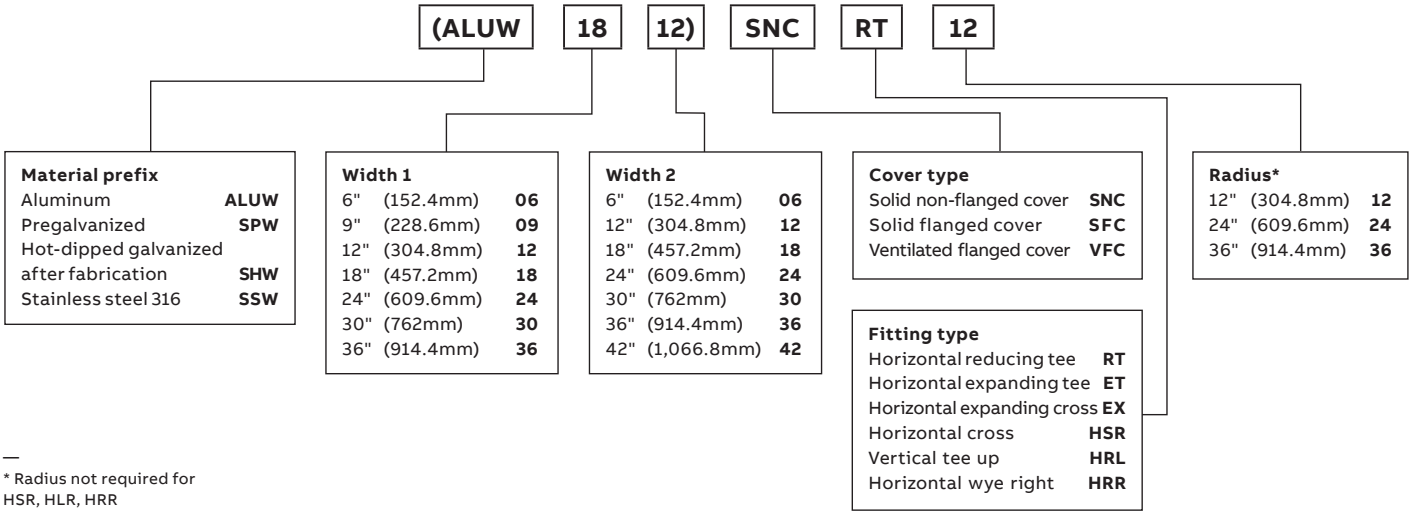


NOTE: Cover mounting hardware sold separately.
* Required for HB & VI only.

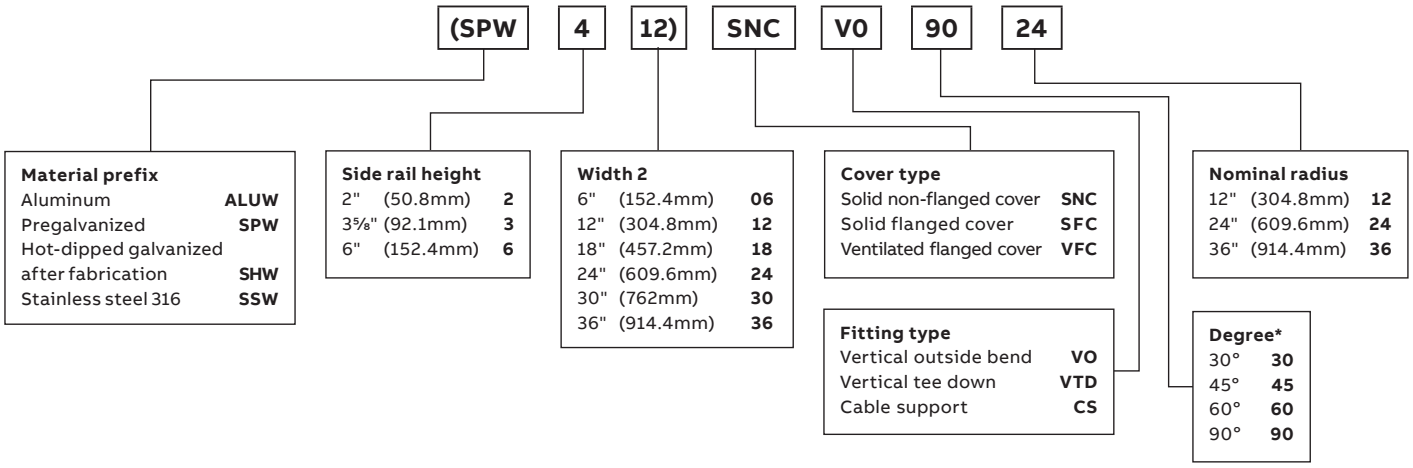
Metallic - One-piece tray covers

SFitting covers

Fitting covers - Number selection



* Radius not required for HSR, HLR, HRR

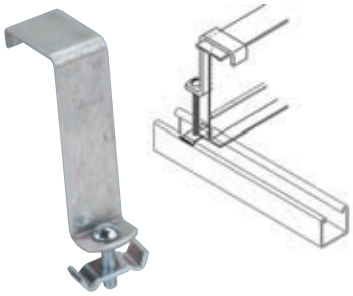


NOTE: Cover mounting hardware sold separately.
* Required for VO only

Metallic - One-piece tray covers

Accessories for covers

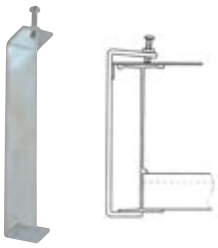
Hold-down clamp



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-2-HDC	SPUW – Pregalvanized	2	50.8
(Prefix)-3-HDC	SHUW – Hot-dipped galvanized	3	76.2
(Prefix)-6-HDC	SSUW – Stainless steel 316	6	152.4

Designed to secure cable tray to support system.

Cover clamp



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-2-SCC	SPUW – Pregalvanized	2	50.8
	SSUW – Stainless steel 316		
(Prefix)-3-SCC	SPUW – Pregalvanized	3	76.2
(Prefix)-6-SCC	SSUW – Stainless steel 316	6	152.4

Rigid indoor cover clamp for flat and flanged covers.

Hold-down clamp

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-2-**-HCC	ALUW – Aluminum	2	50.8	6	152.4
	SPUW – Pregalvanized			12	304.8
	SHUW – Hot-dipped galvanized			18	457.2
	SSUW – Stainless steel 316			24	609.6
(Prefix)-3-**-HCC	ALUW – Aluminum	3	76.2	30	762
(Prefix)-6-**-HCC	SPUW – Pregalvanized	6	152.4	36	914.4
	SHUW – Hot-dipped galvanized				
	SSUW – Stainless steel 316				

** Insert tray width.

Metallic - One-piece tray splice plates

Splice plates and end plate

Snap-in splice plate

- Packaged in pairs with hardware
- Kit contents: 8 bolts, 8 nuts, 8 washers, ⅜" diameter
- Provided as standard with each straight and/or fitting

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-2-SSP	ALUW – Aluminum	2	50.8
(Prefix)-3-SSP	SPUW – Pregalvanized	3	76.2
(Prefix)-6-SSP	SHUW – Hot-dipped galvanized	6	152.4
	SSUW – Stainless steel 316		

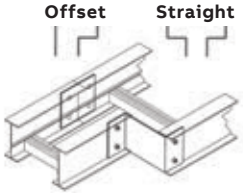
Expansion splice plate

- Allows for a 1" (25.5mm) expansion or contraction of tray system
- Packaged in pairs with hardware
- Kit contents: 8 bolts, 8 nuts, 8 washers, ⅜" diameter

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-2-ESP	ALUW – Aluminum	2	50.8
(Prefix)-3-ESP	SPUW – Pregalvanized	3	76.2
(Prefix)-6-ESP	SHUW – Hot-dipped galvanized	6	152.4
	SSUW – Stainless steel 316		

Closure end plate

- Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction
- One per package with hardware
- Kit contents: 8 bolts, 8 nuts, 8 washers,
- ⅜" diameter



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
ABW-2(*)-RSP	ALUW – Aluminum	2	50.8
ABW-3(*)-RSP	SPUW – Pregalvanized	3	76.2
ABW-6(*)-RSP	SHUW – Hot-dipped galvanized	6	152.4
	SSUW – Stainless steel 316		

NOTE: (*) For offset reduction: insert width to be reduced. For straight reduction: insert 1/2 width to be reduced (two required).
Example: ABW-403-RSP = 3" (76.2mm) offset reducer.

Metallic - One-piece tray barrier strips

Horizontal and vertical barrier strips

SBH

SB

- Barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware or barrier strip clamps (sold separately)
- 72" (1,83m) barriers are flexible for use with horizontal fittings

Horizontal barrier strips

Cat. No.	Material prefix	Height (in)	Height (mm)	Length (in)	Length (m)
(Prefix)-2-SB-3	ALUW – Aluminum	2	50.8	72	3
(Prefix)-3-SB-3	SPUW – Pregalvanized	3	76.2		
(Prefix)-6-SB-3	SHUW – Hot-dipped galvanized*	6	152.4		
(Prefix)-2-SBH-72	SSUW – Stainless steel 316	2	50.8		
(Prefix)-3-SBH-72		3	76.2		
(Prefix)-6-SBH-72		6	152.4		

NOTE: 72" barriers provided with 3 SPW10SCR, 3m barriers provided with 6 SPW10SCR.
* Available in 1500mm only.

- Preformed to fit all standard steel vertical bends
- Provided with hardware

Inside/outside vertical bend barriers

Inside bend Cat. No.	Outside bend Cat. No.	Material prefix	Height (in)	Height (mm)	Angle	Radius (in)	Radius (mm)
(Prefix)-2-VIB-(*)-(**)	Prefix-2-VOB-(*)-(**)	ALUW – Aluminum	2	50.8	90°	12	304.8
(Prefix)-3-VIB-(*)-(**)	Prefix-3-VOB-(*)-(**)	SPUW – Pregalvanized	3	76.2	60°	24	609.6
(Prefix)-6-VIB-(*)-(**)	Prefix-6-VOB-(*)-(**)	SHUW – Hot-dipped galvanized†	6	152.4	45°	36	914.4
		SSUW – Stainless steel 316			30°		

Preformed to fit all standard steel vertical bends. Provided with hardware.
(*) Insert angle. (**) Insert radius. (†) Available in 1500mm only.

Metallic - One-piece tray clamps and hardware

Barrier strip clamp and strip splice

- Barrier strip clamps mount barrier strips to ladder rungs and ventilated trough bottoms
- Complete mounting hardware supplied

Barrier strip clamp

	Cat. No.	Material
	SPW-BSC	Zinc-plated steel
	SSW-BSC	Stainless steel 316

Barrier strip splice

	Cat. No.	Material
	ABWBSS	SPW – Pregalvanized

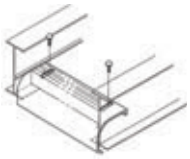
Alignment splice for joining connecting barrier strips.

Metallic - One-piece tray covers

Accessories

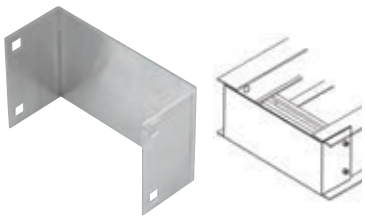
- Designed to provide a smooth radius surface at any position on the tray or trough bottom
- Drop outs are easily attached using hardware provided
- Standard radius 4" (101.6mm)

Drop out

	Cat. No.	Material prefix	Width (in)	Width (mm)
	(Prefix)-**-DOS	ALUW – Aluminum	6	152.4
		SPUW – Pregalvanized	12	304.8
		SHUW – Hot-dipped galvanized	18	457.2
		SSUW – Stainless steel 316	24	609.6
			30	762
			36	914.4

(**) Insert tray width.

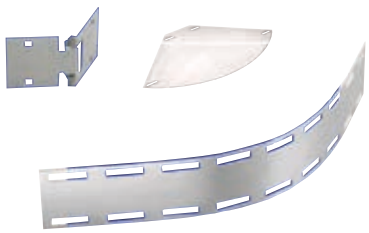
Closure end plate

			Side rail height		Tray width	
	Cat. No.	Material prefix	(in)	(mm)	(in)	(mm)
	(Prefix)-**-DOS	ALUW – Aluminum	2	6	6	152.4
		SPUW – Pregalvanized			12	304.8
		SHUW – Hot-dipped galvanized			18	457.2
		SSUW – Stainless steel 316			24	609.6
	(Prefix)-3-**-CEP	ALUW – Aluminum	3	30	30	762
	(Prefix)-6-**-CEP	SPUW – Pregalvanized	4	36	36	914.4
		SHUW – Hot-dipped galvanized				
		SSUW – Stainless steel 316				

Provides closure for any tray end. Hardware included.
(**) Insert tray width.

Metallic - One-piece tray covers

Accessories



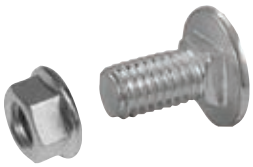
- Adjustable hinge plates provide maximum horizontal installation flexibility
- Furnished as a kit with hardware

Horizontal adjustable plate

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-(*)06-HAP	ALUW – Aluminum	2	50.8	6	152.4
(Prefix)-(*)08-HAP	SPUW – Pregalvanized	3	76.2	12	304.8
(Prefix)-(*)12-HAP	SHUW – Hot-dipped galvanized	6	152.4	18	457.2
(Prefix)-(*)18-HAP	SSUW – Stainless steel 316			24	609.6
(Prefix)-(*)24-HAP				30	762
(Prefix)-(*)30-HAP				36	914.4
(Prefix)-(*)36-HAP					

(*) Insert tray width.

Self-drilling tapping screw

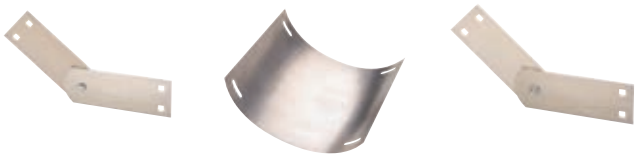


Cat. No.	Material	Description
SPW-1/4-CB	Zinc-plated steel	¼" carriage bolt
SPW-3/8-CB		⅜" carriage bolt
SPW-1/4-HN		¼" hex. nut
SPW-3/8-HN		⅜" hex. nut
SPW-3/8-HWK*		Hardware kit
SSW-3/8-CB	316 Stainless	⅜" carriage bolt
SSW-3/8-HN		⅜" hex. nut
SSW-3/8-HWK*		316 Stainless steel hardware kit

Square-shoulder self-positioning carriage bolt.
* Hardware kit: Contains 8 serrated flange nuts, 8 bolts, 8 lock washers.

Metallic - One-piece tray covers

Accessories



Vertical adjustable plate

- Adjustable hinge plates provide maximum horizontal installation flexibility elevation changes
- Furnished as a kit with hardware

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-2-**-VSP	ALUW – Aluminum	2	50.8	6	152.4
(Prefix)-3-**-VSP	SPUW – Pregalvanized	3	76.2	12	304.8
(Prefix)-6-**-VSP	SHUW – Hot-dipped galvanized	6	152.4	18	457.2
	SSUW – Stainless steel 316			24	609.6
				30	762
				36	914.4

(**) Insert width.

Horizontal tee branch

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-2-(**)-HTB	ALUW – Aluminum	2	50.8	6	152.4
(Prefix)-3-(**)-HTB	SPUW – Pregalvanized	3	76.2	12	304.8
(Prefix)-6-(**)-HTB	SHUW – Hot-dipped galvanized	6	152.4	18	457.2
	SSUW – Stainless steel 316			24	609.6
				30	762
				36	914.4

(**) Insert width.

Box-to-tray plates

- Designed to secure tray to electrical panels or boxes, walls or end supports
- Packaged in pairs with hardware

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-2-(**)-BSP	ALUW – Aluminum	2	50.8	6	152.4
	SPUW – Pregalvanized			12	304.8
	SHUW – Hot-dipped galvanized			18	457.2
	SSUW – Stainless steel 316			24	609.6
(Prefix)-3-(**)-BSP	ALUW – Aluminum	3	76.2	30	762
(Prefix)-6-(**)-BSP	SPUW – Pregalvanized	6	152.4	36	914.4
	SHUW – Hot-dipped galvanized				
	SSUW – Stainless steel 316				

(**) Insert width.

Metallic - Channel tray
Straight lengths

01 Solid channel

02 Ventilated channel

Thomas & Betts offers nonmetallic cable channel in solid or ventilated straight sections. Horizontal and vertical solid bottom fittings are also available to complete your system layout.

1. Material choice

Materials
- Aluminum
- Pregalvanized steel
- Hot-dipped galvanized steel
- Stainless steel 316
- Coatings
- Other

T&B® Channel Tray systems are fabricated from a corrosion-resistant metal (lowcarbon steel, stainless steel or an aluminum alloy) or from a metal with a corrosionresistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost. Please refer to the technical section (pages 24 to 29) for further explanation.

2. T&B channel tray width

Widths
- 1.5" (38.1mm)
- 3" (76.2mm)
- 4" (101.6mm)
- 6" (152.4mm)

The width of a channel tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 1.5, 3, 4 and 6”. (38.1, 76.2, 101.6, 152.4mm).

When specifying width, cable ties or other spacing devices may be used to maintain the required air space between cables.

3. Type of tray bottom

Fittings type
- Ventilated
- Solid

Cable channel
- Thomas & Betts offers cable channel in solid or ventilated straight sections.
- Ventilated channel has burr-free oblong punched holes for easy access.
- Ty-Rap® slots are provided between each opening for securing of cable.
- Thomas & Betts channel tray meets NEMA VE-1/CSA C22.22.

01

02

4. Fittings selection

Fittings type
- Horizontal bends (90°, 60°, 45° and 30°)
- Horizontal tees and crosses
- Vertical bends (90°, 60°, 45° and 30°)

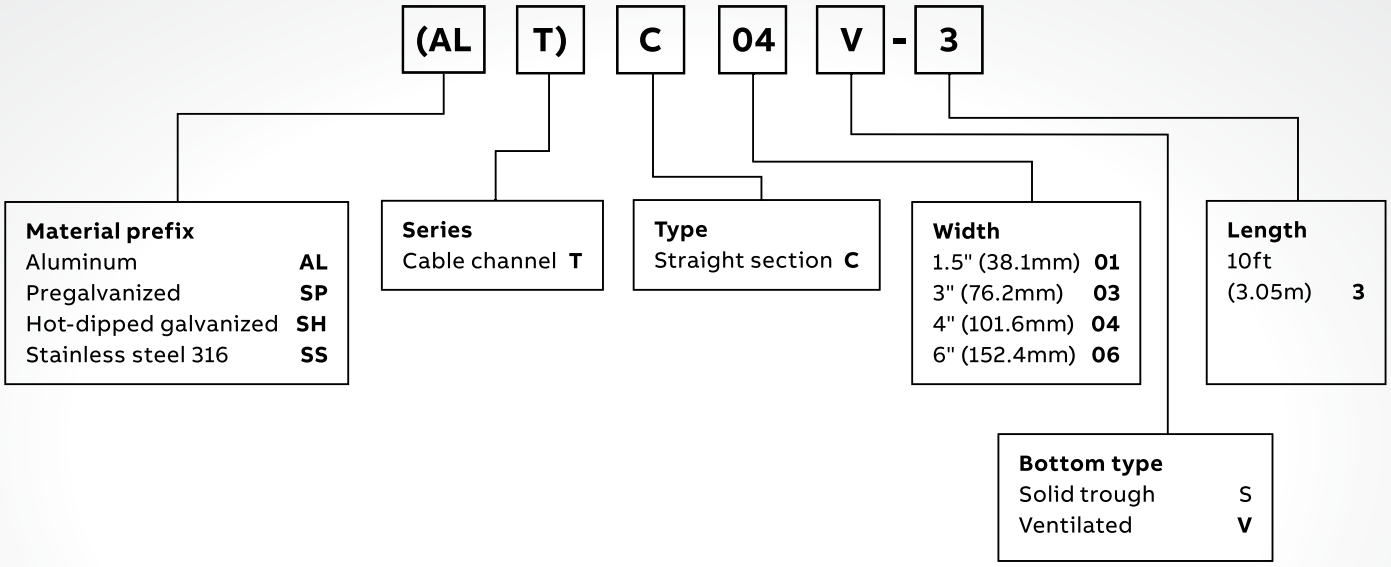
Fittings are used to change the size or direction of the channel tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be zero (non-radius), 12" (304.8mm), 24" (609.6mm) or greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling and cost. The typical radius is 24" (609.6mm).

Fittings are also available for 30°, 45˚, 60˚ and 90˚ angles. When a standard angle will not work, adjustable elbows can be used. It may be necessary to add supports to the tray at these points. Refer to CSA/NEMA VE2 Installation Guidelines for suggested support locations.

Straight section number selection

How to create catalog numbers
1. Select the material.
2. Select nominal width of tray.
3. Select the bottom type.
4. The last number is the length of the channel tray.

Example:
ALTC04V-3
- Aluminum
- 4" wide
- Ventilated bottom
- 10 ft. length



Metallic - Channel tray straight lengths

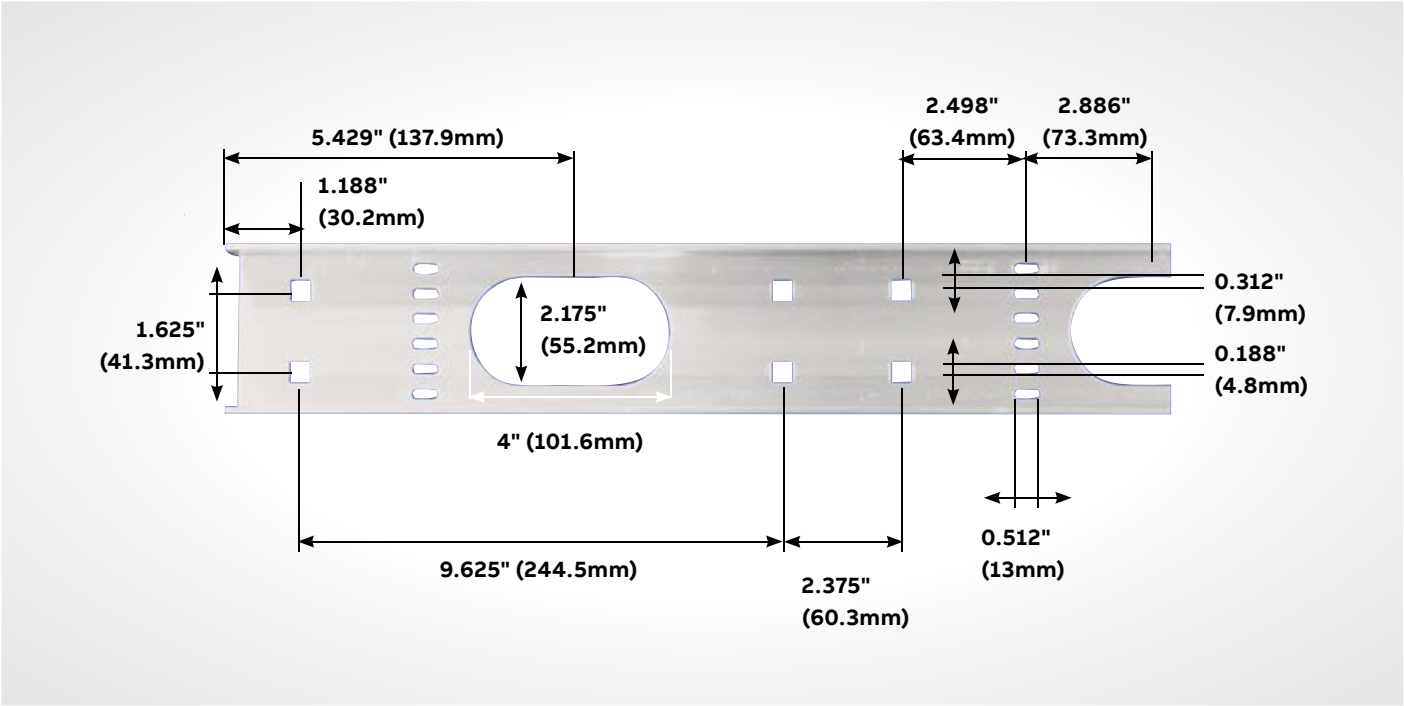
Straight lengths - Solid and ventilated bottom

01 Bottom view of ventilated channel tray larger than 1.5" (38.1mm) wide

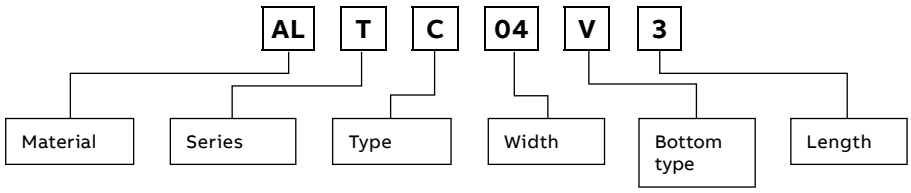
Selection guide

- Prefix: ALT (Alumimium), SPT (Pregalvanised), SHT (Hot-dipped galvanised), SST (Stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4)
- Bottom styles: V – Ventilated, S – Solid

01



Straight section number selection



Metallic - Channel tray straight lengths

Straight length selection guide - Solid and ventilated bottom

01 Ventilated style offered in 1.5" (38.1mm) wide only

02 Ventilated style offered in 3" (76.2mm), 4" (101.6mm), 6" (152.4mm) wide only

03 Solid offered in all widths

01

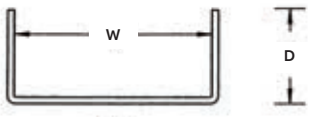
02

03

Metallic - Channel tray straight lengths

Aluminum straight lengths - Solid and ventilated bottom

Aluminum



- Aluminum – extruded material
- Ventilated: Pre-punched burr-free oblong holes with Ty-Rap® slots between each opening
- Accessories: One connector complete with hardware supplied with each length.
- Material: Aluminum-6063-T6, Pregalvanized, Hot-dipped galvanized, 316 stainless steel

Aluminum solid straight lengths

	Channel width (W)		Channel width (W)			Support span ft (m)				
Series	**(in)**	**(mm)**	**(in)**	**(mm)**		**2' (0.61m)**	**4' (1.22m)**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**
ALTC	1.5	38.1	¾	19.1	**Load (lb)/ft)**	47.5	11.9	5.4	3.0	1.9
					Load (kg)/m)	70.69	17.71	8.04	4.46	2.83
					Deflection (in)	0.170	0.680	0.745	1.325	2.070
					Deflection (mm)	4.32	17.27	18.92	33.66	52.58
	3	76.2	1⅜	34.9	**Load (lb)/ft)**	362.5	90.6	40.3	22.7	17
					Load (kg)/m)	539.46	134.83	59.97	33.78	25.30
					Deflection (in)	0.083	0.330	0.743	1.322	2.065
					Deflection (mm)	2.11	8.38	18.87	33.58	52.45
	4	101.6	1⅝	41.3	**Load (lb)/ft)**	580	145	64.4	36.3	24
					Load (kg)/m)	863.13	215.78	95.84	54.02	35.72
					Deflection (in)	0.065	0.260	0.585	1.041	1.626
					Deflection (mm)	1.65	6.60	14.86	26.44	41.30
	6	152.4	1¾	44.5	**Load (lb)/ft)**	607.5	151.9	67.5	38	25
					Load (kg)/m)	904.06	226.05	100.45	56.55	37.20
					Deflection (in)	0.061	0.244	0.550	0.977	1.527
					Deflection (mm)	1.55	6.20	13.97	24.82	38.79

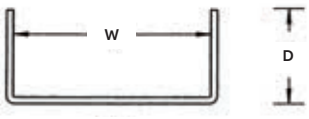
Aluminum ventilated straight lengths

	Channel width (W)		Channel width (W)			Support span ft (m)				
Series	**(in)**	**(mm)**	**(in)**	**(mm)**		**2' (0.61m)**	**4' (1.22m)**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**
ALTC	1.5	38.1	¾	19.1	**Load (lb)/ft)**	97.5	24.4	10.8	6.1	3.9
					Load (kg)/m)	145.10	36.31	16.07	9.08	5.80
					Deflection (in)	0.045	0.181	0.408	0.725	1.133
					Deflection (mm)	1.14	4.60	10.36	18.42	28.78
	3	76.2	1⅜	34.9	**Load (lb)/ft)**	252	63	28	15.8	17
					Load (kg)/m)	375.02	93.75	41.67	23.51	25.30
					Deflection (in)	0.034	0.134	0.302	0.538	0.840
					Deflection (mm)	0.86	3.40	7.67	13.67	21.34
	4	101.6	1⅝	41.3	**Load (lb)/ft)**	408	102	45.3	25.5	24
					Load (kg)/m)	607.17	151.79	67.41	37.95	35.72
					Deflection (in)	0.026	0.105	0.237	0.421	0.658
					Deflection (mm)	0.66	2.67	6.02	10.69	16.71
	6	152.4	1¾	44.5	**Load (lb)/ft)**	432	108	48	27	25
					Load (kg)/m)	642.89	160.72	71.43	40.18	37.20
					Deflection (in)	0.024	0.096	0.217	0.386	0.603
					Deflection (mm)	0.61	2.44	5.51	9.80	15.32

Metallic - Channel tray straight lengths

Steel straight lengths - Solid and ventilated bottom

Steel



- Solid: Steel – roll formed steel
- Ventilated: Pre-punched burr-free oblong holes with Ty-Rap® slots between each opening
- Accessories: One connector complete with hardware supplied with each length.
- Material: Aluminum-6063-T6, Pregalvanized, Hot-dipped galvanized, 316 stainless steel

Steel solid straight lengths

	Channel width (W)		Channel width (W)			Support span ft (m)				
Series	(in)	(mm)	(in)	(mm)		2' (0.61m)	4' (1.22m)	6' (1.83m)	8' (2.44m)	10' (3.05m)
SPTC SHTC SSTC	1.5	38.1	¾	19.1	Load (lb)/ft)	97.5	24.4	10.8	6.1	3.9
					Load (kg)/m)	145.10	36.31	16.07	9.08	5.80
					Deflection (in)	0.045	0.181	0.408	0.725	1.133
					Deflection (mm)	1.14	4.60	10.36	18.42	28.78
	3	76.2	1⅜	34.9	Load (lb)/ft)	252	63	28	15.8	17
					Load (kg)/m)	375.02	93.75	41.67	23.51	25.30
					Deflection (in)	0.034	0.134	0.302	0.538	0.840
					Deflection (mm)	0.86	3.40	7.67	13.67	21.34
	4	101.6	1⅝	41.3	Load (lb)/ft)	408	102	45.3	25.5	24
					Load (kg)/m)	607.17	151.79	67.41	37.95	35.72
					Deflection (in)	0.026	0.105	0.237	0.421	0.658
					Deflection (mm)	0.66	2.67	6.02	10.69	16.71
	6	152.4	1¾	44.5	Load (lb)/ft)	432	108	48	27	25
					Load (kg)/m)	642.89	160.72	71.43	40.18	37.20
					Deflection (in)	0.024	0.096	0.217	0.386	0.603
					Deflection (mm)	0.61	2.44	5.51	9.80	15.32

Steel ventilated straight lengths

	Channel width (W)		Channel width (W)			Support span ft (m)				
Series	(in)	(mm)	(in)	(mm)		2' (0.61m)	4' (1.22m)	6' (1.83m)	8' (2.44m)	10' (3.05m)
SPTC SHTC SSTC	1.5	38.1	¾	19.1	Load (lb)/ft)	97.5	24.4	10.8	6.1	3.9
					Load (kg)/m)	145.10	36.31	16.07	9.08	5.80
					Deflection (in)	0.045	0.181	0.408	0.725	1.133
					Deflection (mm)	1.14	4.60	10.36	18.42	28.78
	3	76.2	1⅜	34.9	Load (lb)/ft)	207	51.8	23	12.9	14
					Load (kg)/m)	308.05	77.09	34.23	19.20	20.83
					Deflection (in)	0.041	0.163	0.366	0.652	1.018
					Deflection (mm)	1.04	4.14	9.30	16.56	25.86
	4	101.6	1⅝	41.3	Load (lb)/ft)	363	90.8	40.3	22.7	19
					Load (kg)/m)	540.20	135.12	59.97	33.78	28.28
					Deflection (in)	0.030	0.119	0.269	0.477	0.746
					Deflection (mm)	0.76	3.02	6.83	12.12	18.95
	6	152.4	1¾	44.5	Load (lb)/ft)	405	101.3	45	25.3	21
					Load (kg)/m)	602.70	150.75	66.97	37.65	31.25
					Deflection (in)	0.027	0.106	0.239	0.425	0.664
					Deflection (mm)	0.69	2.69	6.07	10.80	16.87

Metallic - Channel tray
Fittings

—
01 Horizontal cross
—
02 90° Horizontal bend
—
03 Horizontal tee

—
01

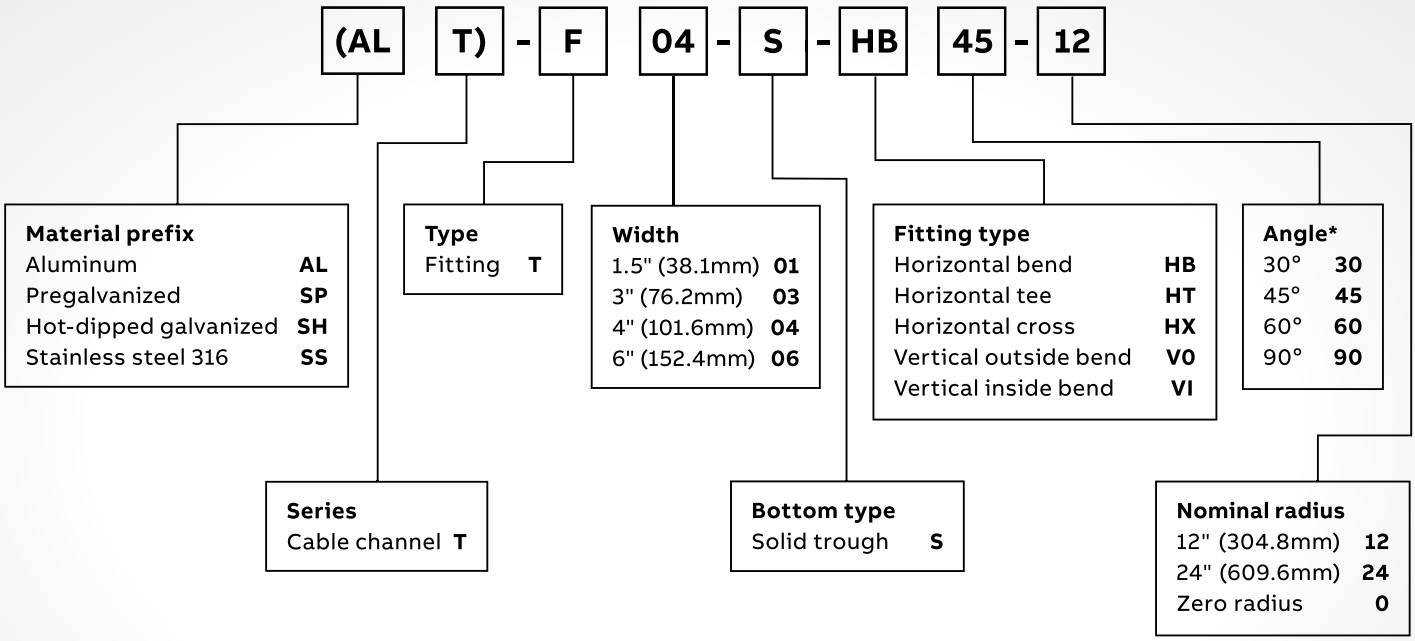
—
02

—
03

Fittings number selection

How to create catalog numbers
1. Select fitting material.
2. Select nominal width of fitting.
3. Select type of fitting.
4. Select degree of angle if required.
5. Select radius.

Example:
ALTF04SHB4512
- Aluminum
- 4" wide
- Horizontal bend
- 45° degree angle
- 12" radius



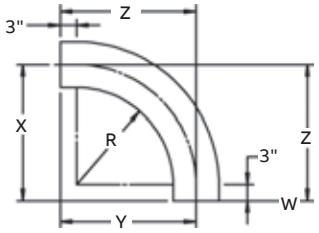
Key

* = Angle is required for HB, VI, VO only

Metallic - Channel tray fittings

90° Horizontal bend fittings

90° Horizontal bend



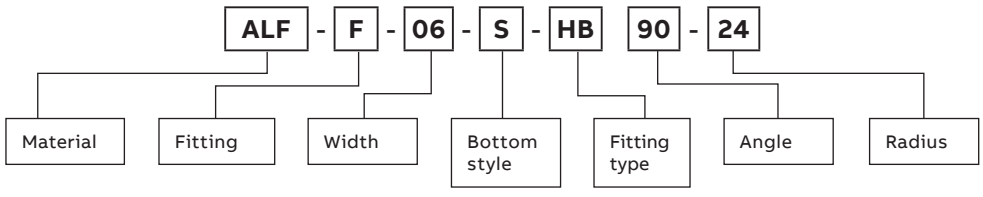
Radius (R) (in)	Radius (R) (mm)	Width (W) (in)	Width (W) (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HB90-12	15¾	400.05	15¾	400.05
		3	76.2	(Prefix)-F 03-S-HB90-12	16½	419.10	16½	419.10
		4	101.6	(Prefix)-F 04-S-HB90-12	17	431.80	17	431.80
		6	152.4	(Prefix)-F 06-S-HB90-12	18	457.20	18	457.20
24	609.6	1.5	38.1	(Prefix)-F 01-S-HB90-24	27¾	704.85	27¾	704.85
		3	76.2	(Prefix)-F 03-S-HB90-24	28½	723.90	28½	723.90
		4	101.6	(Prefix)-F 04-S-HB90-24	29	736.60	29	736.60
		6	152.4	(Prefix)-F 06-S-HB90-24	30	762.00	30	762.00

* Specify prefixes ALT, SPT, SHT or SST.

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Angle: 90°
- Bottom style: S - solid

Fitting number selection

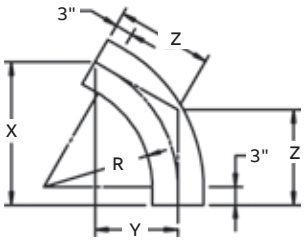


SECTION 15

Metallic - Channel tray fittings

60° Horizontal bend fittings

60° Horizontal bend



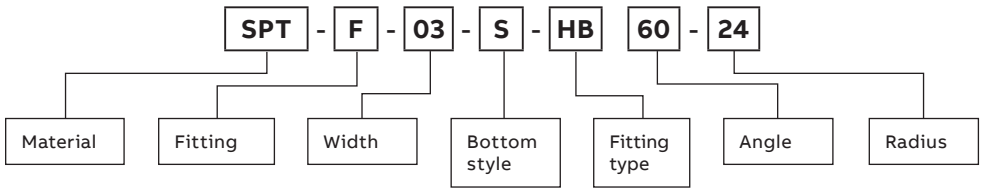
Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HB60-12	15½	393.70	9	228.60	10¼	260.35
		3	76.2	(Prefix)-F 03-S-HB60-12	16 3/16	427.04	9⅜	238.13	10 13/16	274.64
		4	101.6	(Prefix)-F 04-S-HB60-12	16⅝	422.28	9⅝	244.48	11 1/16	280.99
		6	152.4	(Prefix)-F 06-S-HB60-12	17½	444.50	10⅛	257.18	11 11/16	296.86
24	609.6	1.5	38.1	(Prefix)-F 01-S-HB60-24	26	660.40	15	381.00	17¼	438.15
		3	76.2	(Prefix)-F 03-S-HB60-24	26 9/16	674.69	15⅜	390.53	17¾	450.85
		4	101.6	(Prefix)-F 04-S-HB60-24	27	685.80	15⅝	396.88	18	457.20
		6	152.4	(Prefix)-F 06-S-HB60-24	27⅞	708.03	16⅛	409.58	18 9/16	471.49

* Specify prefixes ALT, SPT, SHT or SST.

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Angle: 60°
- Bottom style: S - solid

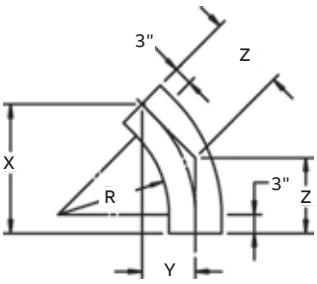
Fitting number selection



Metallic - Channel tray fittings

45° Horizontal bend fittings

45° Horizontal bend



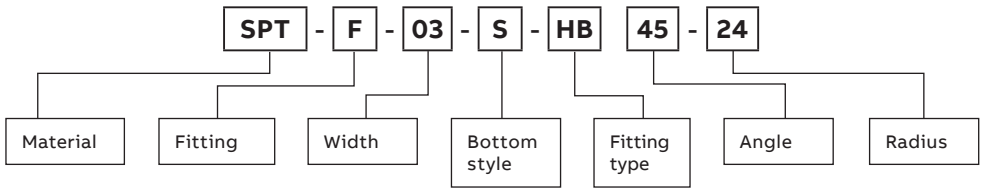
Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HB45-12	14 1/8	358.78	5 7/8	149.23	8 1/4	209.55
		3	76.2	(Prefix)-F 03-S-HB45-12	14 11/16	373.06	6 1/16	153.99	8 9/16	217.49
		4	101.6	(Prefix)-F 04-S-HB45-12	15	381.00	6 1/4	158.75	8 13/16	223.84
		6	152.4	(Prefix)-F 06-S-HB45-12	15 3/4	400.05	6 1/2	165.10	9 3/16	233.36
24	609.6	1.5	38.1	(Prefix)-F 01-S-HB45-24	22 5/8	574.68	9 3/8	238.13	13 1/4	336.55
		3	76.2	(Prefix)-F 03-S-HB45-24	23 1/8	587.38	9 9/16	242.89	13 9/16	344.49
		4	101.6	(Prefix)-F 04-S-HB45-24	23 1/2	596.90	9 3/4	247.65	13 3/4	349.25
		6	152.4	(Prefix)-F 06-S-HB45-24	24 3/16	614.36	10	254.00	14 11/16	373.06

* Specify prefixes ALT, SPT, SHT or SST.

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Angle: 45°
- Bottom style: S - solid

Fitting number selection

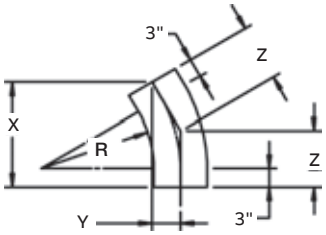


SECTION 15

Metallic - Channel tray fittings

30° Horizontal bend fittings

30° Horizontal bend



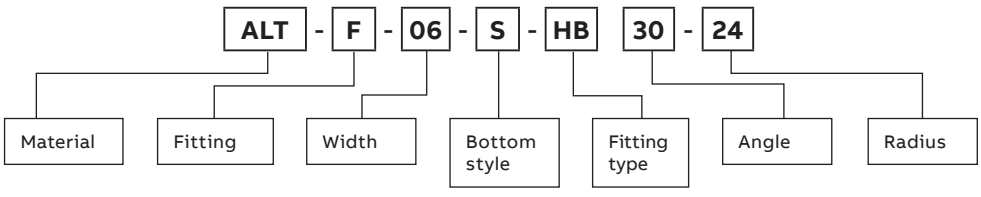
Radius (R) (in)	Radius (R) (mm)	Width (W) (in)	Width (W) (mm)	Cat. No.	Dimensions X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HB30-12	12	304.80	3¼	82.55	6½	165.10
		3	76.2	(Prefix)-F 03-S-HB30-12	12⅜	314.33	3⁵⁄₁₆	84.14	6⅝	168.28
		4	101.6	(Prefix)-F 04-S-HB30-12	12⅝	320.68	3⅜	85.73	6¾	171.45
		6	152.4	(Prefix)-F 06-S-HB30-12	13⅛	333.38	3½	88.90	7	177.80
24	609.6	1.5	38.1	(Prefix)-F 01-S-HB30-24	18	457.20	4¾	120.65	9⅝	244.48
		3	76.2	(Prefix)-F 03-S-HB30-24	18⅜	466.73	4¹⁵⁄₁₆	125.41	9¹³⁄₁₆	249.24
		4	101.6	(Prefix)-F 04-S-HB30-24	18⅝	473.08	5	127.00	9¹⁵⁄₁₆	252.41
		6	152.4	(Prefix)-F 06-S-HB30-24	19⅛	485.78	5⅛	130.18	10¼	260.35

* Specify prefixes ALT, SPT, SHT or SST.

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Angle: 30°
- Bottom style: S - solid

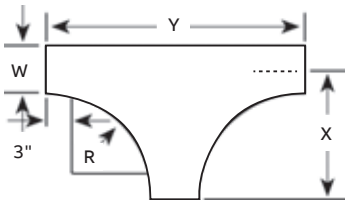
Fitting number selection



Metallic - Channel tray fittings

Horizontal tee fittings

Horizontal tee



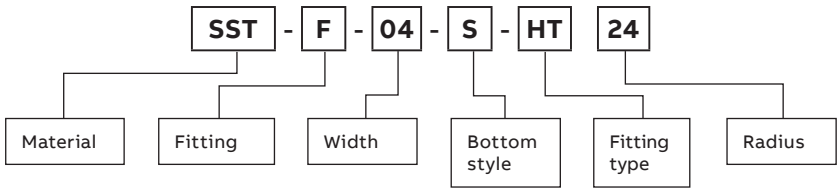
Radius (R)		Width (W)			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HT-12	15¾	400.05	31½	800.10
		3	76.2	(Prefix)-F 03-S-HT-12	16½	419.10	33	838.20
		4	101.6	(Prefix)-F 04-S-HT-12	17	431.80	34	863.60
		6	152.4	(Prefix)-F 06-S-HT-12	18	457.20	36	914.40
24	609.6	1.5	38.1	(Prefix)-F 01-S-HT-24	27¾	704.85	55½	1409.70
		3	76.2	(Prefix)-F 03-S-HT-24	28½	723.90	57	1447.80
		4	101.6	(Prefix)-F 04-S-HT-24	29	736.60	58	1473.20
		6	152.4	(Prefix)-F 06-S-HT-24	30	762.00	60	1524.00

* Specify prefixes ALT, SPT, SHT or SST.

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection

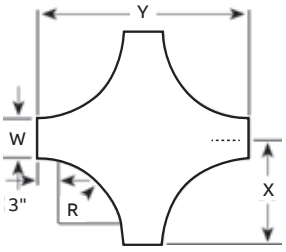


SECTION 15

Metallic - Channel tray fittings

Horizontal cross fittings

Horizontal cross



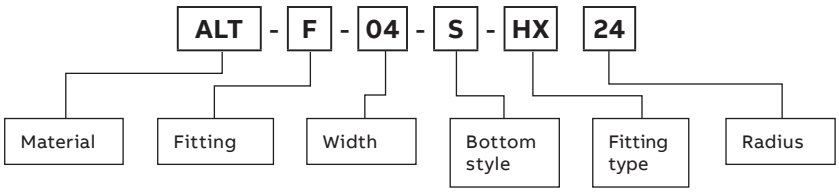
Radius (R)		Width (W)			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HX-12	15¾	400.05	31½	800.10
		3	76.2	(Prefix)-F 03-S-HX-12	16½	419.10	33	838.20
		4	101.6	(Prefix)-F 04-S-HX-12	17	431.80	34	863.60
		6	152.4	(Prefix)-F 06-S-HX-12	18	457.20	36	914.40
24	609.6	1.5	38.1	(Prefix)-F 01-S-HX-24	27¾	704.85	55½	1409.70
		3	76.2	(Prefix)-F 03-S-HX-24	28½	723.90	57	1447.80
		4	101.6	(Prefix)-F 04-S-HX-24	29	736.60	58	1473.20
		6	152.4	(Prefix)-F 06-S-HX-24	30	762.00	60	1524.00

* Specify prefixes ALT, SPT, SHT or SST.

Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



Metallic - Channel tray fittings

90° Vertical outside/inside bend fittings

90° Vertical outside bend

Radius (R) (in)	Radius (R) (mm)	Width (W) (in)	Width (W) (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VO90-12	15	381.00	15	381.00
		3	76.2	(Prefix)-F 03-S-VO90-12	15	381.00	15	381.00
		4	101.6	(Prefix)-F 04-S-VO90-12	15	381.00	15	381.00
		6	152.4	(Prefix)-F 06-S-VO90-12	15	381.00	15	381.00
24	609.6	1.5	38.1	(Prefix)-F 01-S-VO90-24	27	685.80	15	685.80
		3	76.2	(Prefix)-F 03-S-VO90-24	27	685.80	27	685.80
		4	101.6	(Prefix)-F 04-S-VO90-24	27	685.80	27	685.80
		6	152.4	(Prefix)-F 06-S-VO90-24	27	685.80	27	685.80

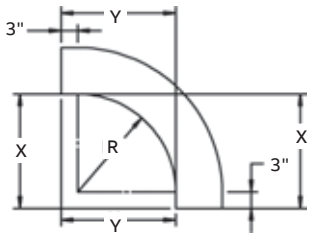
* Specify prefixes ALT, SPT, SHT or SST.

90° Vertical inside bend

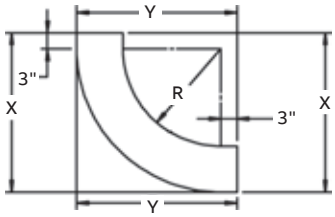
Radius (R) (in)	Radius (R) (mm)	Width (W) (in)	Width (W) (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VI90-12	15¾	400.05	15¾	400.05
		3	76.2	(Prefix)-F 03-S-VI90-12	16½	419.10	16½	419.10
		4	101.6	(Prefix)-F 04-S-VI90-12	16⅞	428.63	16⅞	428.63
		6	152.4	(Prefix)-F 06-S-VI90-12	16⅞	428.63	16⅞	428.63
24	609.6	1.5	38.1	(Prefix)-F 01-S-VI90-24	27¾	958.85	27¾	704.85
		3	76.2	(Prefix)-F 03-S-VI90-24	28½	723.90	28½	723.90
		4	101.6	(Prefix)-F 04-S-VI90-24	28⅞	733.43	28⅞	733.43
		6	152.4	(Prefix)-F 06-S-VI90-24	28⅞	733.43	28⅞	733.43

* Specify prefixes ALT, SPT, SHT or SST.

90° Outside bend



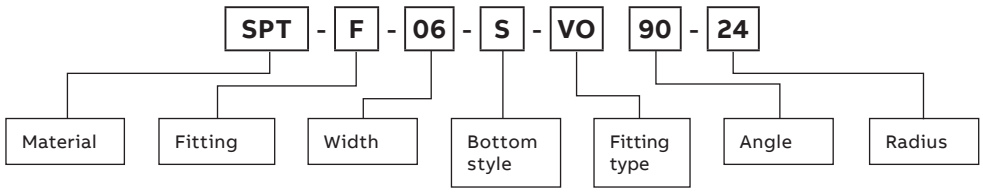
90° Inside bend



Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



SECTION 15

Metallic - Channel tray fittings

60° Vertical outside/inside bend fittings

60° Vertical outside bend

Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VO60-12	14⅞	377.83	8⅝	219.08	9⅞	250.83
		3	76.2	(Prefix)-F 03-S-VO60-12	14⅞	377.83	8⅝	219.08	9⅞	250.83
		4	101.6	(Prefix)-F 04-S-VO60-12	14⅞	377.83	8⅝	219.08	9⅞	250.83
		6	152.4	(Prefix)-F 06-S-VO60-12	14⅞	377.83	8⅝	219.08	9⅞	250.83
24	609.6	1.5	38.1	(Prefix)-F 01-S-VO60-24	25¼	641.35	14⅝	371.48	16⅞	428.63
		3	76.2	(Prefix)-F 03-S-VO60-24	25¼	641.35	14⅝	371.48	16⅞	428.63
		4	101.6	(Prefix)-F 04-S-VO60-24	25¼	641.35	14⅝	371.48	16⅞	428.63
		6	152.4	(Prefix)-F 06-S-VO60-24	25¼	641.35	14⅝	371.48	16⅞	428.63

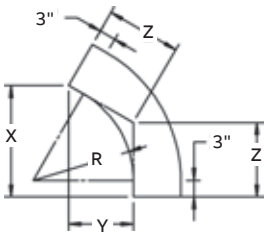
* Specify prefixes ALT, SPT, SHT or SST.

60° Vertical inside bend

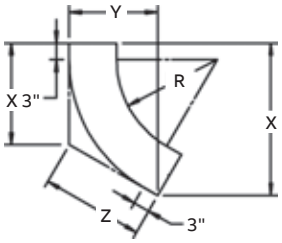
					Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VI60-12	15½	393.70	9	228.60	10¼	260.35
		3	76.2	(Prefix)-F 03-S-VI60-12	16⅛	409.58	9¼	234.95	10¾	273.05
		4	101.6	(Prefix)-F 04-S-VI60-12	16¼	412.75	9⅜	238.13	10⅞	276.23
		6	152.4	(Prefix)-F 06-S-VI60-12	16⅜	415.93	9½	241.30	11	279.40
24	609.6	1.5	38.1	(Prefix)-F 01-S-VI60-24	26	660.40	15	381.00	17¼	438.15
		3	76.2	(Prefix)-F 03-S-VI60-24	26½	673.10	15¼	387.35	17⅝	447.68
		4	101.6	(Prefix)-F 04-S-VI60-24	26¾	679.45	15⅜	390.53	17¾	450.85
		6	152.4	(Prefix)-F 06-S-VI60-24	26¾	679.45	15½	393.70	17⅞	454.03

* Specify prefixes ALT, SPT, SHT or SST.

60° Outside bend



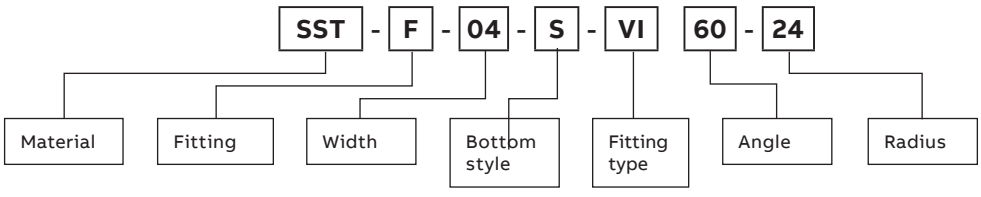
60° Inside bend



Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



Metallic - Channel tray fittings

45° Vertical outside/inside bend fittings

45° Vertical outside bend

Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VO45-12	13⅝	346.08	5⅝	142.88	8	203.20
		3	304.8	(Prefix)-F 03-S-VO45-12	13⅝	346.08	5⅝	142.88	8	203.20
		4	762	(Prefix)-F 04-S-VO45-12	13⅝	346.08	5⅝	142.88	8	203.20
		6	914.4	(Prefix)-F 06-S-VO45-12	13⅝	346.08	5⅝	142.88	8	203.20
24	914.4	1.5	152.4	(Prefix)-F 01-S-VO45-24	22⅛	561.98	9⅛	231.78	12⅞	327.03
		3	76.2	(Prefix)-F 03-S-VO45-24	22⅛	561.98	9⅛	231.78	13	330.20
		4	101.6	(Prefix)-F 04-S-VO45-24	11	279.40	11	279.40	13	330.20
		6	152.4	(Prefix)-F 06-S-VO45-24	11	279.40	11	279.40	13	330.20

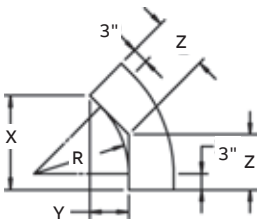
* Specify prefixes ALT, SPT, SHT or SST.

45° Vertical inside bend

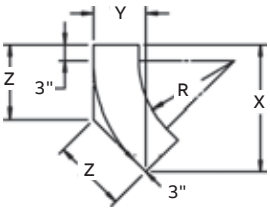
Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VI45-12	13⅝	346.08	5⅝	142.88	8	203.20
		3	304.8	(Prefix)-F 03-S-VI45-12	13⅝	346.08	5⅝	142.88	8	203.20
		4	762	(Prefix)-F 04-S-VI45-12	13⅝	346.08	5⅝	142.88	8	203.20
		6	914.4	(Prefix)-F 06-S-VI45-12	13⅝	346.08	5⅝	142.88	8	203.20
24	914.4	1.5	152.4	(Prefix)-F 01-S-VI45-24	22⅛	561.98	9⅛	231.78	12⅞	327.03
		3	76.2	(Prefix)-F 03-S-VI45-24	22⅛	561.98	9⅛	231.78	13	330.20
		4	101.6	(Prefix)-F 04-S-VI45-24	11	279.40	11	279.40	13	330.20
		6	152.4	(Prefix)-F 06-S-VI45-24	11	279.40	11	279.40	13	330.20

* Specify prefixes ALT, SPT, SHT or SST.

45° Outside bend



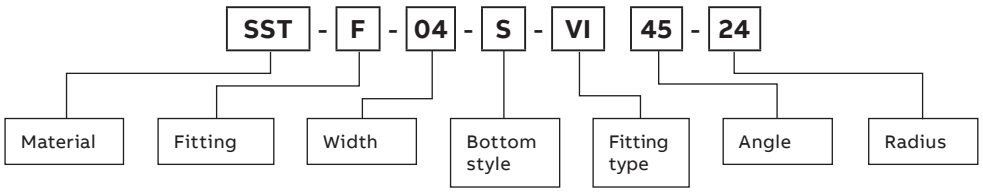
45° Inside bend



Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



Metallic - Channel tray fittings

30° Vertical outside/inside bend fittings

30° Vertical outside bend

Radius (R) (in)	Radius (R) (mm)	Width (W) (in)	Width (W) (mm)	Cat. No.	Dimensions X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VO30-12	10⅛	257.18	1⅞	47.63	5¼	133.35
		3	304.8	(Prefix)-F 03-S-VO30-12	11⅝	295.28	3⅛	79.38	6⅛	155.58
		4	762	(Prefix)-F 04-S-VO30-12	11⅝	295.28	3⅛	79.38	6⅛	155.58
		6	914.4	(Prefix)-F 06-S-VO30-12	11⅝	295.28	3⅛	79.38	6⅛	155.58
24	914.4	1.5	152.4	(Prefix)-F 01-S-VO30-24	17⅝	447.68	4¾	120.65	9¼	234.95
		3	76.2	(Prefix)-F 03-S-VO30-24	17⅝	447.68	4¾	120.65	9¼	234.95
		4	101.6	(Prefix)-F 04-S-VO30-24	17⅝	447.68	4¾	120.65	9¼	234.95
		6	152.4	(Prefix)-F 06-S-VO30-24	17⅝	447.68	4¾	120.65	9¼	234.95

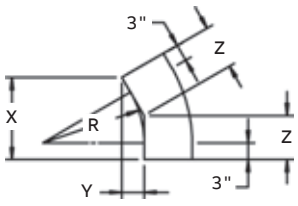
* Specify prefixes ALT, SPT, SHT or SST.

30° Vertical inside bend

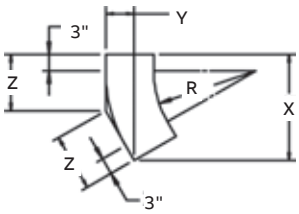
Radius (R) (in)	Radius (R) (mm)	Width (W) (in)	Width (W) (mm)	Cat. No.	Dimensions X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VI30-12	10⅜	263.53	1⅞	47.63	5⅜	136.53
		3	304.8	(Prefix)-F 03-S-VI30-12	12¼	311.15	3½	88.90	6⅜	161.93
		4	762	(Prefix)-F 04-S-VI30-12	12⅜	314.33	3⅜	85.73	5⅜	136.53
		6	914.4	(Prefix)-F 06-S-VI30-12	12½	317.50	3⅜	85.73	5⅜	136.53
24	914.4	1.5	152.4	(Prefix)-F 01-S-VI30-24	18	457.20	4¾	120.65	9⅝	244.48
		3	76.2	(Prefix)-F 03-S-VI30-24	18¼	463.55	4⅞	123.83	9¾	247.65
		4	101.6	(Prefix)-F 04-S-VI30-24	18⅜	466.73	4⅞	123.83	9⅞	250.83
		6	152.4	(Prefix)-F 06-S-VI30-24	18½	469.90	5	127.00	9⅞	250.83

* Specify prefixes ALT, SPT, SHT or SST.

30° Outside bend



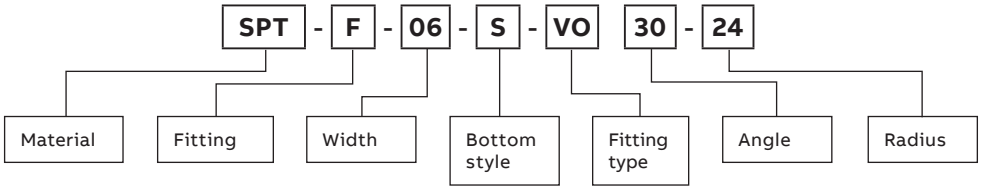
30° Inside bend



Selection guide

- Prefix: ALT (alum.), SPT (pregalv.), SHT (hot-dip galv.), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



Metallic - Channel tray covers

Cover selection guide - Tray, straight and fittings

NOTE: Cover mounting hardware must be ordered separately.

* Hot-dipped galvanized covers only available in 1500mm lengths

Tray covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Straight covers

- These covers provide maximum mechanical protection for cables with limited heat build up.
- Flanged covers have a ½" (12.7mm) flange.

Quantity of standard cover clamps required
Straight section - 10 ft (3.05m): 6 pieces

NOTE: When using heavy-duty cover clamps, only half the quantity of pieces are required.

Straight cover number selection

(AL - T) F 03 SFC 3

Material prefix	
Aluminum	**AL**
Pregalvanized	**SP**
Hot-dipped galvanized*	**SH**
Stainless steel 316	**SS**

Series prefix	
Cable channel	**T**

Type
Accessory
i.e. Straight cover

Width	
1.5" (38.1mm)	**01**
3" (76.2mm)	**03**
4" (101.6mm)	**04**
6" (152.4mm)	**06**

Bottom style	
Straight flanged covers	**SFC**

Nominal	
10 ft (3.05m)	**3**

NOTE: Cover mounting hardware must be ordered separately.

* Required for HB, VI & VO only.

† Contact your T&B representative for availability

Fitting covers

- Fitting covers are available to complete your cable channel layout.
- All fitting covers are flanged.

Quantity of standard cover clamps required
Horizontal and vertical bends: 4 pieces
Tees: 6 pieces
Crosses: 8 pieces

NOTE: When using heavy-duty cover clamps, only half the quantity of pieces are required.

Fitting cover number selection

(AL - T) F 06 HBC 45 12

Material prefix	
Aluminum	**AL**
Pregalvanized	**SP**
Hot-dipped galvanized	**SH**
Stainless steel 316	**SS**

Series prefix	
Cable channel	**T**

Type	
Fitting cover	**F**

Width	
1.5" (38.1mm)	**01**
3" (76.2mm)	**03**
4" (101.6mm)	**04**
6" (152.4mm)	**06**

Fitting type	
Horizontal bend	**HBC**
Horizontal tee	**HTC**
Horizontal cross	**HXC**
Vertical outside bend	**VOC**
Vertical inside bend	**VIC**

Degree*	
30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius	
12" (304.8mm)	**12**
24" (609.6mm)	**24**
Zero † radius	**0**

Metallic - Channel tray splice plates

Standard and expansion splice plates

Selection guide

- Prefix: ALT (Aluminum), SPT (pregalvanised), SHT (hot-dip galvanised), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4mm

Standard 1.5" splice plate

Cat. No	Material	Width (in)	Width (mm)
(Prefix)-W-01-CCS	Aluminum	1.5	38.1

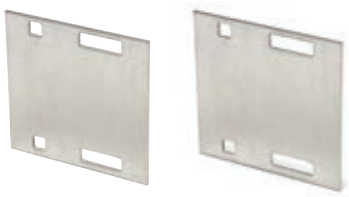
Supplied standard with each length.
Includes hardware: 2 bolts, 2 washers, ⅜" diameter.

Standard splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-03-CCS	3	76.2
(Prefix)-W-04-CCS	4	101.6
(Prefix)-W-06-CCS	6	152.4

Supplied standard with each length.
Includes hardware: 4 bolts, 4 nuts, 4 washers, ⅜" diameter.

Expansion splice plate



Cat. No.		Material
(Prefix)-W-1.5-ESP	1.5	38.1
(Prefix)-W-03-ESP	3	76.2
(Prefix)-W-04-ESP	4	101.6
(Prefix)-W-06-ESP	6	152.4

Supplied with hardware for 1.5" (38.1mm) wide channel: 2 bolts, 2 nuts, ⅜" diameter.
All other widths: 4 bolts, 2 stop nuts, 2 serrated flange nuts, 4 lock washers (stainless steel only), ⅜" diameter

Metallic - Channel tray splice plates

Wraparound and adjustable splice plates

Selection guide

- Prefix: ALT (Aluminum), SPT (pregalvanised), SHT (hot-dip galvanised), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4mm

Wraparound splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-ACS	1.5	38.1
(Prefix)-W-03-ACS	3	76.2
(Prefix)-W-04-ACS	4	101.6
(Prefix)-W-06-ACS	6	152.4

Supplied with hardware for 1.5" (38.1mm) wide channel: 2 bolts, 2 nuts, ⅜" diameter.
All other widths: 4 bolts, 4 nuts, 4 washers, ⅜" diameter

Adjustable horizontal splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CHA	1.5	38.1
(Prefix)-W-03-CHA	3	76.2
(Prefix)-W-04-CHA	4	101.6
(Prefix)-W-06-CHA	6	152.4

Standard vertical adjustable splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CCV	1.3	33
(Prefix)-W-03-CCV	3	76.2
(Prefix)-W-04-CCV	4	101.6
(Prefix)-W-06-CCV	6	152.4

Metallic - Channel tray clamps and hardware

Wraparound splice plates and clamps

Selection guide

- Prefix: ALT (Aluminum), SPT (pregalvanised), SHT (hot-dip galvanised), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4mm

Wraparound vertical adjustable splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-WAV	1.5	38.1mm
(Prefix)-W-03-WAV	3	76.2mm
(Prefix)-W-04-WAV	4	101.6mm
(Prefix)-W-06-WAV	6	152.4mm

Standard hold-down clamp

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-SHC	1.5	38.1
(Prefix)-W-03-SHC	3	76.2
(Prefix)-W-04-SHC	4	101.6
(Prefix)-W-06-SHC	6	152.4

Channel expansion guide clamp

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CEG	1.5	38.1
(Prefix)-W-03-CEG	3	76.2
(Prefix)-W-04-CEG	4	101.6
(Prefix)-W-06-CEG	6	152.4

Combination hold-down/cover clamp

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CCC	1.5	38.1
(Prefix)-W-03-CCC	3	76.2
(Prefix)-W-04-CCC	4	101.6
(Prefix)-W-06-CCC	6	152.4

Metallic - Channel tray clamps and hardware

Cover clamps, endplates and channel brackets

Heavy-duty cover clamp

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-HCC	1.5	38.1
(Prefix)-W-03-HCC	3	76.2
(Prefix)-W-04-HCC	4	101.6
(Prefix)-W-06-HCC	6	152.4

Closed end plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CEP	1.5	38.1
(Prefix)-W-03-CEP	3	76.2
(Prefix)-W-04-CEP	4	101.6
(Prefix)-W-06-CEP	6	152.4

Channel mounting bracket

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CCB	1.5	38.1
(Prefix)-W-03-CCB	3	76.2
(Prefix)-W-04-CCB	4	101.6
(Prefix)-W-06-CCB	6	152.4

Channel-to-cable-tray plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CCT	1.5	38.1
(Prefix)-W-03-CCT	3	76.2
(Prefix)-W-04-CCT	4	101.6
(Prefix)-W-06-CCT	6	152.4

Metallic - Channel tray brackets and hangers

Reducer plates, base plates, mounting brackets and hangers

Selection guide

- Prefix: ALT (Aluminum), SPT (pregalvanised), SHT (hot-dip galvanised), SST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4mm

Channel straight reducer plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-03-01-RSP	3 to 1	38.1
(Prefix)-W-04-01-RSP	4 to 1	76.2
(Prefix)-W-06-01-RSP	6 to 1	101.6
(Prefix)-W-04-03-RSP	4 to 3	101.6
(Prefix)-W-06-03-RSP	6 to 3	101.6
(Prefix)-W-06-04-RSP	6 to 4	152.4

Channel-to-floor base plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CBP	1.5	38.1
(Prefix)-W-03-CBP	3	76.2
(Prefix)-W-04-CBP	4	101.6
(Prefix)-W-06-CBP	6	152.4

Channel-to-tray mounting bracket

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-TCB	1.5	38.1
(Prefix)-W-03-TCB	3	76.2
(Prefix)-W-04-TCB	4	101.6
(Prefix)-W-06-TCB	6	152.4

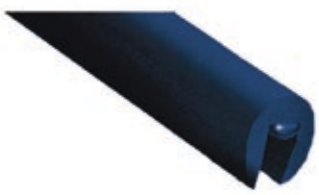
Single channel hanger

Cat. No.	Width (in)	Width (mm)
SPT-W-06-CCH	For use with all widths	For use with all widths
SHT-W-06-CCH		
SST-W-06-CCH		

NOTE: Designed for use with ½" threaded rod.

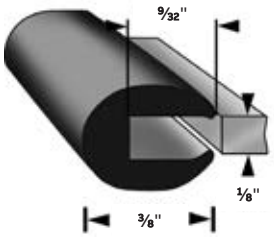
Metallic - Channel brackets and hangers

Channel rubber edge trim and hangers



Channel rubber edge trim

- Recommended temperature range: -40°F to 158°F (-40°C to 70°C)
- Base material: Dense neoprene rubber (wear and fuel resistant)
- Very flexible to fit tight radius
- NOTE: Available with pre-applied sealant

	Cat. No.	Width	Description
	RET-BUSH	For use with 3" (76.2mm), 4" (101.6mm) and 6" (152.4mm)	Rubber edge trim – 10¾" bushing Standard pack of 10
	RET-50	For use with all widths	Rubber edge trim – 50 ft roll
	RET-500		Rubber edge trim – 500 ft. roll

Double channel hanger

	Cat. No.	Width (in)	Width (mm)
	SPT-W-06-DCH	For use with all widths	For use with all widths
	SHT-W-06-DCH		

NOTE: Designed for use with ½" threaded rod.

Common accessories
Cable support systems

Cable rollers

Why should rollers be used?

1) To reduce pulling stress on cables, avoiding undue fatigue or abrasions.
2. To minimize harmful “shear” load being placed on cable trays.
3. To reduce installation time.

Why purchase the T&B Cable Roller System?

- Universal – fits virtually all tray systems.
- Mounts from bottom of cable tray, eliminating the need for double handling cables and reducing possibility of cable damage.
- Sideways telescopic adjustment allows rollers to accommodate virtually all tray widths.
- Nylon bearings require no lubrication.
- Independent rollers limit cable abrasion.

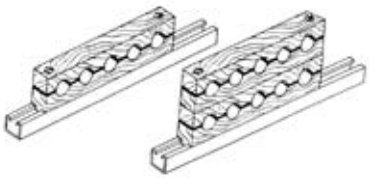
Straight roller

	Cat. No.	Description	Fits
	HAR 1224	Straight	All Profiles 12" to 24" (30 cm to 60 cm)
	HAR 1836		All Profiles 18" to 36" (45 cm to 90 cm)

Corner roller

	Cat. No.	Description	Fits
	VHR04	Corner	All Profiles

Maple hardwood block



Custom maple hardwood block

- Maple hardwood, paraffin wax impregnated, multiple cable blocks can be made to your specific requirements
- Cable blocks ensure proper separation of single conductor cables, which prevents any interference due to magnetic fields
- Maple hardwood blocks are paraffin wax impregnated to prevent moisture from penetrating and causing rotting and splitting.
- Cable blocks are also available in nylon and high-density polyethylene.
- Price and delivery available upon request.
- Electrogalvanized hardware included; stainless steel hardware available upon request.

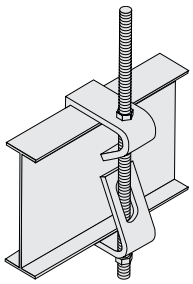
Common accessories

Cable tray support systems

Hanger rod clamp

These clamps are designed for ladder and ventilated cable tray. They provide a fast and economical solution for a suspended cable tray installation. One kit is needed per each threaded rod location.

- Kit consists of: one bottom clamp, one top clamp
- Uses ½" threaded rod (order separately)
- Load capacity: 250 lb (113.4kg) per kit



Cat. No.	Material prefix	Width (in)	Width (mm)
(Prefix)-3-HRC	SPW – Pregalvanized	3	76.2
(Prefix)-4-HRC	SHW – Hot-dipped galvanized	4	101.6
(Prefix)-5-HRC	SSW – Stainless steel 316	5	127
(Prefix)-6-HRC		6	152.4
(Prefix)-7-HRC		7	177.8

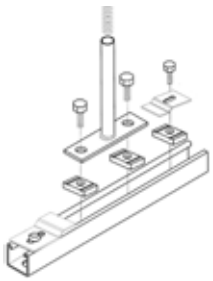
For aluminum cable tray

Cat. No.	Tray series	Cat. No.	Tray series	Cat. No.	Tray series
ABW14-HRC	AH14	ABW35-HRC	AH35	ABW56-HRC	AH56
ABW24-HRC	AH24	ABW45-HRC	AH45	ABW66-HRC	AH66
ABW34-HRC	AH34	ABW16-HRC	AH16	ABW27-HRC	AH27
ABW44-HRC	AH44	ABW26-HRC	AH26	ABW37-HRC	AH37
ABW54-HRC	AH54	ABW36-HRC	AH36	–	–

Closure end plate

This system is designed to reduce cable pulling by allowing access from both sides of cable tray. Installation cost and time are reduced significantly by single-point suspension.

- Supplied as a complete kit
- Uses ½" threaded rod (order separately)
- For use with up to 24" (609.6mm) wide tray
- Load capacity: 700 lb (317.5kg) per kit



Cat. No.	Material	Channel width (in)	Channel width (mm)	Tray width (in)	Tray width (mm)
SHW18CSB	Hot-dipped galvanized	18	457.2	6	152.4
				9	228.6
SHW30CSB		30	762	12	304.8
				18	457.2
				24	609.6

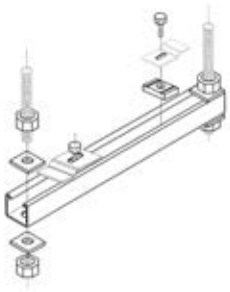
Common accessories

Cable tray support systems

Trapeze kit

This system is designed to support various cable tray widths in a suspending installation.

- Kit consists of: one piece of strut cut to length, four ⅜" strut nuts, two hold-down clips, four ½" hex nuts, two ⅜" x ⅞" hex head cap screws, four ½" square washers
- Uses ½" threaded rod (order separately)

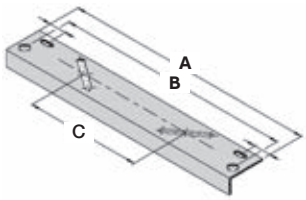


Cat. No.	Channel width (in)	Channel width (mm)	Tray width (in)	Tray width (mm)
(*)06TPK	16⅞	428.3	6	152.4
(*)09TPK	18¾	476.3	9	228.6
(*)12TPK	22½	571.5	12	304.8
(*)18TPK	28⅛	714.4	18	457.2
(*)24TPK	35⅝	904.9	24	609.6
(*)30TPK	41¼	1047.8	30	762
(*)36TPK	46⅞	1190.6	36	914.4
(*)42TPK	52½	1333.5	42	1,066.8

(*) Insert SHW for hot-dipped galvanized, SSW for stainless steel 316 or SPW for pregalvanized.

Closure end plate

- Hanging rods not included
- Standard finish: Hot-dipped galvanized



Cat. No.	A (in)	A (mm)	B (in)	B (mm)	C (in)	C (mm)
S202-6HDG	6	152.4	5	127	–	–
S202-9HDG	9	228.6	8	203.2	2	50.8
S202-15HDG	5	127	14	355.6	8	203.2
S202-21HDG	21	533.4	20	508	14	355.6
S202-27HDG	27	685.8	26	660.4	20	508
S202-33HDG	33	838.2	32	812.8	26	660.4

* Order hold-down clips separately, Cat No. SSW-HEC.

Common accessories

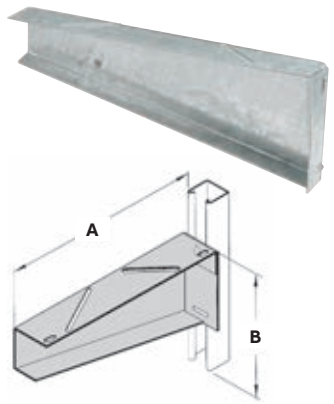
Cable tray support systems

Conduit-to-cable-tray swivel clamp

- Swivel tray clamp for aluminum and steel trays with regular or reinforced flanges
- Serrations and biting teeth on clamping saddle provide a high quality bond between conduit and clamp
- ½ to 4" can be clamped to any position in a 90° arc
- Material: Malleable iron hub and steel U-bolt
- Standard finish: Zinc plated

Cat. No.	Conduit size (in)	Conduit size (mm)
6209	½ – ¾	12.70 - 19.05
6211	1 – 1¼	25.40 - 31.75
6214	1½ – 2	38.10 - 50.80
6216	2½ – 3	63.50 - 76.20
6218	3½ – 4	88.90 - 101.60

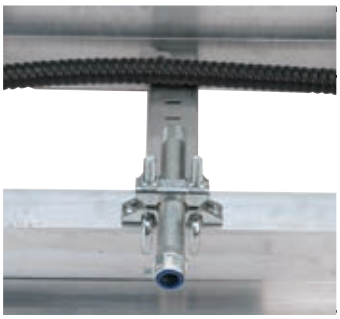
Cantilever support



Cat. No.	A (in)	A (mm)	B (in)	B (mm)	Design load/(lb)	Design load/(kg)
S203-8HDG	8½	215.90	4 1/16	103.19	1200	1785.79
S203-14HDG	14½	368.30	5⅜	136.53	1200	1785.79
S203-20HDG	20½	520.70	6 11/16	169.86	1200	1785.79
S203-26HDG	26½	673.10	8	203.20	1200	1785.79
S203-32HDG	32½	825.50	8	203.20	1200	1785.79
S203-38HDG	38½	977.90	8	203.20	1200	1785.79

* Order hold-down clips separately, Cat No. SSW-HEC.

Conduit-to-cable-tray clamp



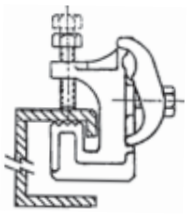
Cat. No.	Conduit size (in)	Conduit size (mm)
6209	½ – ¾	12.70 - 19.05
6211	1 – 1¼	25.40 - 31.75

* Order hold-down clips separately, Cat No. SSW-HEC.

Grounding and bonding
Grounding and bonding products

—
Cable tray ground clamp

- Material: Malleable iron
- Standard finish: Zinc plated

	Cat. No.	Cable	Description
	10105	Copper or aluminum	For single conductors #4 solid to 2/0 str.
	10109		For single conductors 2/0 solid to 4/0 str.

—
Blackburn® ground clamp

- Bolt has square shank to prevent turning and allow clamp to be tightened with one wrench
- Material: Copper alloy
- Standard finish: Tin-plated for aluminum cable tray
- Castings are of high strength, corrosion resistant copper alloy

			Conductor range		
		Cat. No.	Min.	Max.	(in)
Figure 1	Figure 2	GTC13P	#4 solid	2/0 str.	1
		GTC14P	2/0 str.	250 kcmil	1
		GTC23P	#4 solid	2/0 str.	2
		GTC24P	2/0 str.	250 kcmil	2

Grounding and bonding

Grounding and bonding products

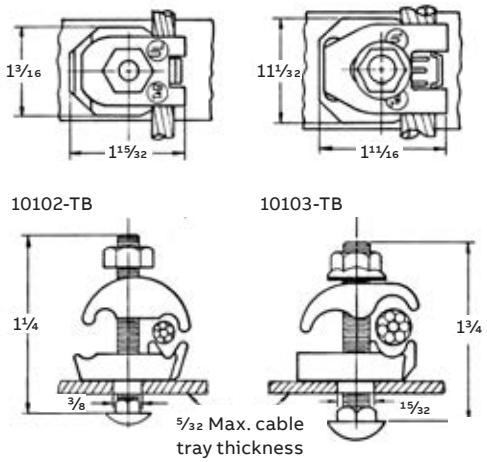
Blackburn® cable tray ground clamp

- Material: Copper
- Standard finish: Tin-plated

Cat. No.	Cable	Description
CTG250	Al or Cu	For parallel or tapping applications #2 solid to 250 kcmil

Cable Tray Grounding Connector

- Malleable iron construction
- For use on cable tray up to 5/32" thick



Cat. No.	Ground wire range (AWG)	Carriage bolt size (in)	Carriage bolt size (mm)
10102-TB	#8 Solid to #2 Stranded	5/16 - 18	7.93 - 18
10103-TB	#4 Stranded to 4/0 Stranded	3/8 - 16	9.52 - 18

Grounding and bonding

Grounding and bonding products

- Flat flexible braids
- Custom braids available
- Material: Copper
- Standard finish: Tin-plated

Bonding jumpers

Cat. No.	Bonding current capacity	Single bolt hole (in)	Single bolt hole (mm)	Length (in)	Length (mm)
FBD12-1*	600A	7/16	11.11	12	304.8
FBD16-1*				16	406.4
FBD18-1*				18	457.2
FBD24-1*				24	609.6
FBD30-1*				30	762
FBD36-1*				36	914.4
FBE12-1*	1200A	9/16	14.29	12	304.8
FBE16-1*				16	406.4
FBE18-1*				18	457.2
FBE24-1*				24	609.6
FBE30-1*				30	762
FBE36-1*				36	914.4
FBG12-1*	2000A	9/16	14.29	12	304.8
FBG16-1*				16	406.4
FBG18-1*				18	457.2
FBG24-1*				24	609.6
FBG30-1*				30	762
FBG36-1*				36	914.4

* UL® Listed and CSA Certified for grounding and bonding equipment.

- Material: Tin-plated high-strength 6061-T6 aluminum alloy
- Dual rated for aluminum and copper conductors
- Open-face design allows the installer to quickly lay in the grounding conductor as a jumper

Blackburn® lay-in lug

Cat. No.	Conductor range Min.	Conductor range Max.	Stud size (in)	Stud size (mm)	Stud size (mm²)
LL306	#6 solid	3/0 str.	0.33	8.38	8.38
LL2506	#6 str.	250 kcmil	0.33	8.38	8.38

Grounding and bonding

Grounding and bonding products

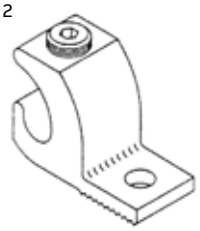
Aluminium lay-in lug connector

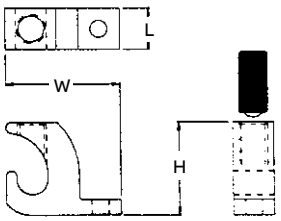
- Dual-rated for both copper and aluminium conductor
- Manufactured from 6061-T6 aluminum alloy for maximum strength and conductivity
- Open-faced design enables installer to quickly lay-in grounding conductor as jumper to multiple conduits with no break in ground conductor

						Dimensions					
		Cond. range AWG		Stud size		H		W		L	
Cat. No.	Fig no.	(in)	(mm²)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
LL414	1	4 - 14	16 - 1.5	0.22	5.59	0.78	19.81	0.38	9.65	1.07	27.18
LL1014	1	1/0 - 14	50 - 1.5	0.27	6.86	1.17	29.72	0.60	15.24	1.50	38.10
LL306	2	3/0 - 6	70 - 16	0.33	8.38	1.56	39.62	0.80	20.32	2.00	50.80
LL2506	2	250 -6	120 - 16	0.33	8.38	1.79	45.47	0.00	20.32	2.20	55.88

Fig 1

Fig. 2





90° C Rating (486B Listed)

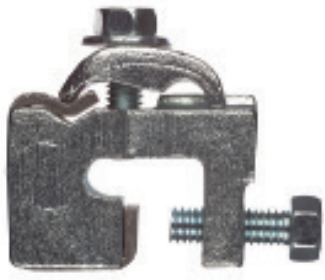
Cable tray ground clamp

- For aluminum and steel cable trays with regular or reinforced flanges
- Serrations and biting teeth on clamping saddle provide
- a high-quality bond between conduit and clamp
- Can be clamped to any position in a 90° arc
- Hardened steel screws bite into tray and provide positive bond
- Malleable iron hub and steel U-bolt accept conduit from any angle

Cat. No.	Clamp type	Conduit size (in)	Conduit size (mm)
6209	Swivel	½ - ¾	12.7 - 19.05
6210	Straight	½ - ¾	12.7 - 19.05
6211	Swivel	1 - 1¼	25.4 - 31.75
6212	Straight	1 - 1¼	25.4 - 31.75
6214	Swivel	1½ - 2	38.1 - 50.8
6216	Swivel	2½ - 3	63.5 - 76.2
6218	Swivel	3½ - 4	88.9 - 101.6

Grounding and bonding

Grounding and bonding products



Cable tray ground clamp

- Material: Malleable iron
- Standard Finish: Zinc plated

Cat. No.	Description
10105*	For Single Conductors #4 sol. to 2/0 str.
10109**	For Single Conductors 2/0 sol. to 4/0 str.

* UL® Listed #4 to 2/0 AWG copper.
** UL® Listed 2/0 to 4/0 AWG copper/aluminum.
CSA File No. 2884.

Table 1 (NEC® Table 392.7 (B))

Metal area requirements for cable trays used as equipment grounding conductors

Maximum fuse ampere rating, circuit breaker ampere trip setting or circuit breaker protective relay ampere trip setting for ground fault protection of any cable circuit in the cable tray system	Minimum cross-sectional area of metal* (in square inches)	
	Steel cable trays	Aluminum cable trays
60	0.20	0.20
100	0.40	0.20
200	0.70	0.20
400	1.00	0.40
600	1.50**	0.40
1000	–	0.60
1200	–	1.00
1600	–	1.50
2000	–	2.00**

For SI units: one square inch = 645 square millimeters.
* Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of one-piece construction.
** Steel cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 600A. Aluminum cable trays shall not be used as equipment grounding conductors for circuits with ground-fault protection above 2000A. For larger ampere ratings, an additional grounding conductor must be used.

NOTE: For more information on grounding and bonding cable tray, refer to NEMA VE 2 Cable Tray Installation Guidelines.

Minimum size equipment grounding conductors for grounding and bonding raceway and equipment

Rating or setting of automatic overcurrent device in circuit ahead of equipment, conduit, etc. not exceeding (amperes)	Size	
	Copper wire no.	Aluminum or copperclad aluminum wire no.*
15	14	12
20	12	10
30	10	8
40	10	8
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250 kcmil
1600	4/0	350 kcmil
2000	250 kcmil	400 kcmil
2500	350 kcmil	600 kcmil
3000	400 kcmil	600 kcmil
4000	500 kcmil	800 kcmil
5000	700 kcmil	1200 kcmil

* See installation restrictions in NEC® Section 250-92(a).
National Electric Code and NEC are registered trademarks of the National Fire Protection Association, Inc.

Superstrut™ support systems
Fittings and brackets

Superstrut™ 1⅝" x 1⅝" 12 gauge channel type A

Cat. No.	Description
A1200	Solid base
A1200-P	Punched
A1200-HS	Half slots
A1200-S	Long slots"
A1200-KO	Knockouts
A1202	Back to back

Example: A1200HS10ALC, A120020HDGC.

Finishes and materials suffixes

No suffix	Gold galvanized dichromate finish
PGC	Pregalvanized steel
HDGC	Hot-dipped galvanized steel
T316L	Stainless steel type 316
ALC	Aluminum
EG	Electrogalvanized steel

Superstrut™ 1⅝" x 1⅝" 12 gauge channel type A

Offered in 10 or 20 ft. lengths

- Aluminum, hot-dipped galvanized or stainless steel channels
- are recommended to support aluminum, steel or stainless steel cable tray

01 **Solid base**

02 **Knockouts**

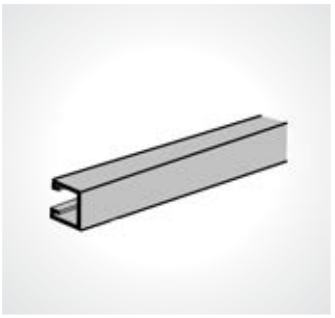
03 **Long slots**

04 **Half slots**

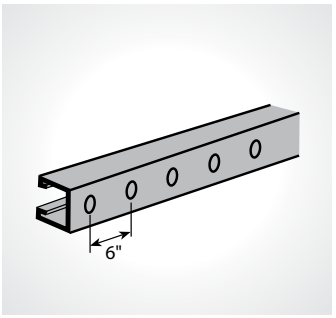
06 **Punched**

06 **Back to back**

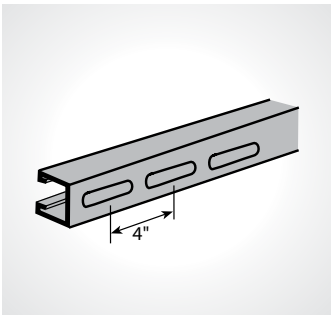
01



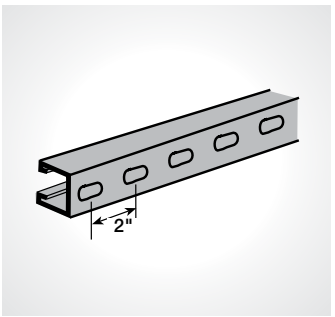
02



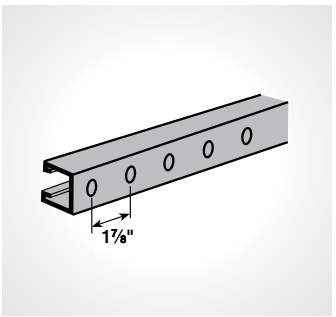
03



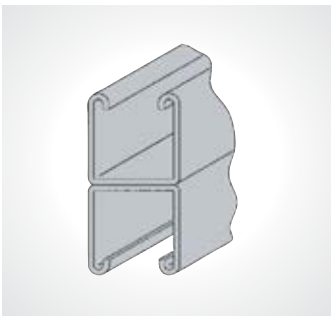
04



05



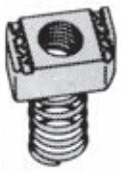
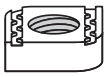
06



Superstrut™ support systems

Hardware

Channel nuts

	Cat. No.	Hole Size (in)	
A100 Regular spring nut 	A100-1/4EGC	¼	Standard finish: Electrogalvanized stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS6(C).
	A100-5/16EGC	5/16	
	A100-3/8EGC	⅜	
	A100-1/2EGC	½	
	A100-5/8EGC	⅝	
	A100-3/4	¾	
	100-7/8EGC	⅞	
Nut is square over ½" size			
AC100 springless nut 	AC100-1/4EGC	¼	Standard finish: Electrogalvanized stainless steel channel nuts are recommended for aluminum channel and cable tray rungs. Change suffix to SS6(C).
	AC100-3/8EGC	⅜	
	AC100-1/2EGC	½	
	AC100-5/8	⅝	
	AC100-3/4	¾	
Nut is square over ½" size			
UC100 Universal nylon cone nut 	UC100-1/4	¼	Not available in stainless steel.
	UC100-3/8	⅜	
	UC100-1/2	½	

For all 1⅝" and 1½" channels; may be used with ALL strut depths.

Hex head cap screw

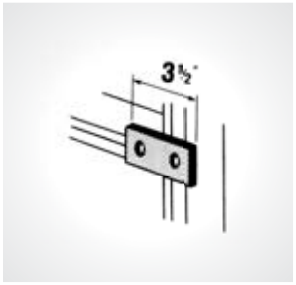
	Cat. No.	Hole Size (in)	
E142 Hex head cap screw 	E142-1/4x150EG	¼ x 1½	Standard finish: Electrogalvanized Available in stainless steel. Change suffix to SS6(C).
	E142-3/8x100EG	⅜ x 1	
	E142-3/8x150EG	⅜ x 1½	
	E142-1/2x100EG	½ x 1	
	E142-1/2x150EG	½ x 1½	

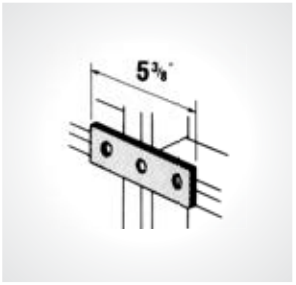
For all 1⅝" and 1½" channels; may be used with ALL strut depths.

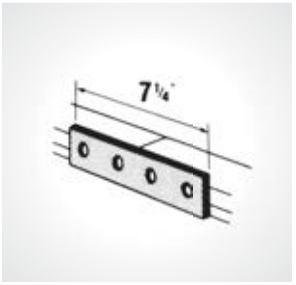
Superstrut™ support systems

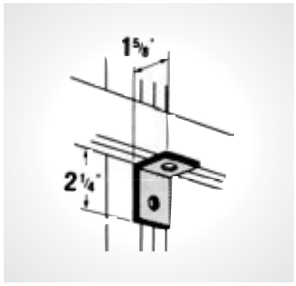
Superstrut™ fittings and brackets

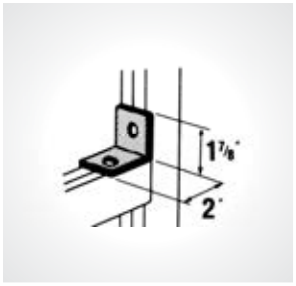
01

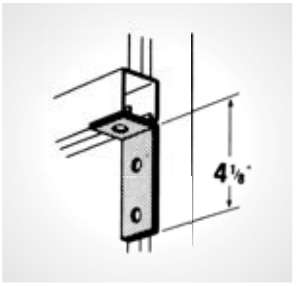

02


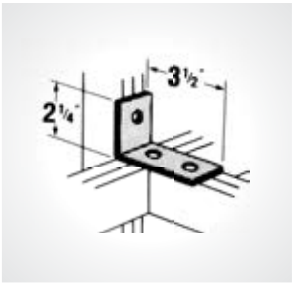
03


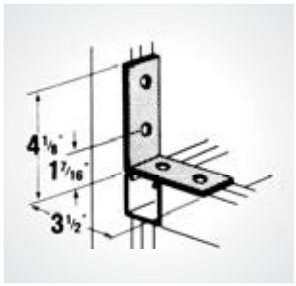
04


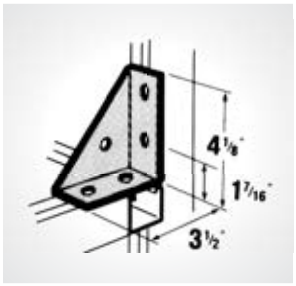
05


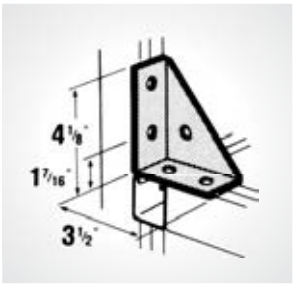
06


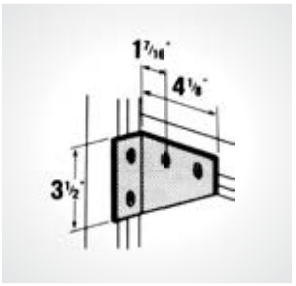
07


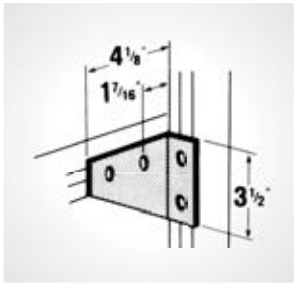
08


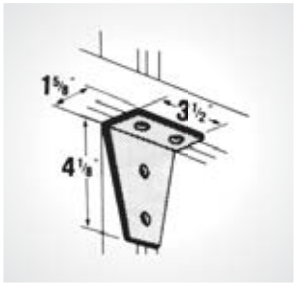
09


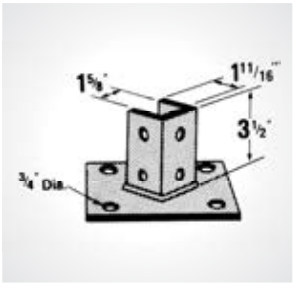
10


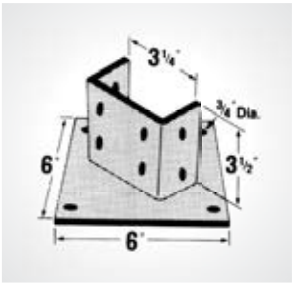
11


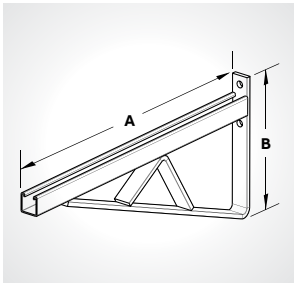
12


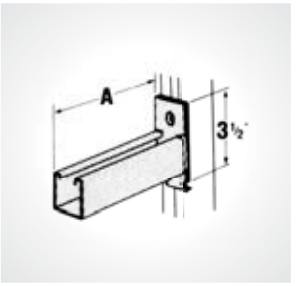
13


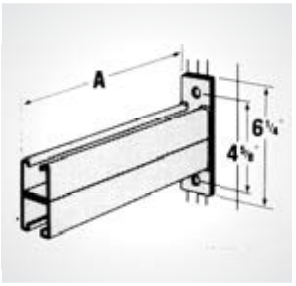
14


15


16


17


18


19


01 **AB241HDGC**
02 **AB206HDGC**
03 **AB207HDGC**
04 **X207HDGC**
05 **AB201HDGC**
06 **AB202HDGC**
07 **AB203HDGC**
08 **AB204HDGC**
09 **AB205HDGC**
10 **AB213HDGC**
11 **AB214HDGC**
12 **AB254-LHDGC**
13 **AB254-RHDGC**
14 **X289HDGC**
15 **AP232HDG**
16 **AP235HDGC**
17 **S249HDG***
18 **S256HDGC***
19 **S251HDGC***

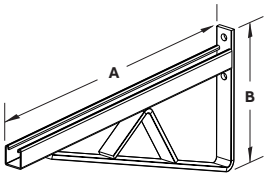
NOTE: Hot-dipped galvanized HDG(C) or stainless steel SS6(C) fittings are recommended to assemble aluminum channel. Also available in electrogalvanized (EG) and gold galvanized dichromate (no suffix). Std. Dimensions: Hole spacing 13/16" from end / Hole spacing 17/8" centers / Hole size 9/16" dia. / Fitting width 15/8". *See following page for more detailed ordering information.

Superstrut™ support systems

Superstrut™ fittings and brackets

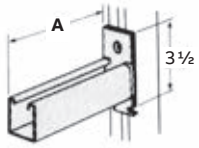
Superstrut™ fittings and brackets

Cat. No.	Hole Size (in)
AB241-1/4HDGC	¼
AB241-3/8HDGC	⅜
AB241-1/2HDGC	½
AB241-3/4HDGC	¾



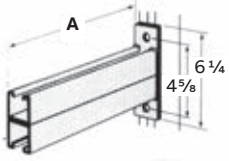
Cat. No.	A (in)	A (mm)	B (in)	B (mm)	Design load (lb)	Design load (kg)
S249-8*	9½	215.90	8	203.20	1600	725.75
S249-14*	14½	368.30	9	228.60	1325	147.42
S249-20*	20½	520.70	9	228.60	1000	453.59
S249-26*	26½	673.10	11½	292.10	850	385.55
S249-32*	32½	825.50	11½	292.10	750	340.19
S249-38*	38½	977.90	11½	292.10	600	272.16
S203-8 to S203-38					325	147.42

NOTE: Inside bracing for S249-26 and over.



Cat. No.	A (in)	A (mm)	Design load (lb)	Design load (kg)
S256-8HDG	8½	215.90	1000	453.59
S256-14HDG	14½	368.30	500	226.80
S256-20HDG	20½	520.70	300	136.08
S256-26HDG	26½	673.10	250	113.40

NOTE: When installed in inverted position, reduce load rating by 40%. Strut section made from half-slot channel.



Cat. No.	A (in)	A (mm)	Design load (lb)	Design load (kg)
S251-14HDGC	14½	368.30	1650	748.43
S251-20HDGC	20½	520.70	1050	476.27
S251-26HDGC	26½	673.10	800	362.87
S251-32HDGC	32½	825.50	650	294.83
S251-38HDGC	38½	977.90	500	226.80

NOTE: Hot-dipped galvanized HDG(C) or stainless steel SS6(C) fittings are recommended to assemble aluminum channel. Also available in electrogalvanized (EG) and gold galvanized dichromate (no suffix). Std. Dimensions: Hole spacing 13/16" from end / Hole spacing 17/8" centers / Hole size 9/16" dia. / Fitting width 15/8". *See following page for more detailed ordering information.

Superstrut™ support systems

Angler® pipe and conduit clamp

- Angled for easy tightening

Universal Series - for EMT, IMC, Rigid

Product code	Size (in)	Size (mm)	Strap thickness (ga)	Design load (lb)	Install torque (in/lb)	Std. ctn.
GoldGalv® finish						
C 109 1/2	½	12.7	14	400	40	100
C 109 3/4	¾	19.05	14	500	40	100
C 109 1	1	25.4	14	500	40	100
C 109 1 1/4	1¼	31.75	14	500	40	100
C 109 1 1/2	1½	38.1	12	800	60	50
C 109 2	2	50.8	12	800	60	50
C 109 2 1/2	2½	63.5	12	800	60	50
C 109 3	3	76.2	12	800	60	50
C 109 3 1/2	3½	88.9	11	1,200	60	25
C 109 4	4	101.6	11	1,200	60	25
SilverGalv® finish						
C 109 1/2 EG	½	12.7	14	400	40	100
C 109 3/4 EG	¾	19.05	14	500	40	100
C 109 1 EG	1	25.4	14	500	40	100
C 109 1 1/4 EG	1¼	31.75	14	500	40	100
C 109 1 1/2 EG	1½	38.1	12	800	60	50
C 109 2 EG	2	50.8	12	800	60	50
C 109 2 1/2 EG	2½	63.5	12	800	60	50
C 109 3 EG	3	76.2	12	800	60	50
C 109 3 1/2 EG	3½	88.9	11	1,200	60	25
C 109 4 EG	4	101.6	11	1,200	60	25

Rigid Series - for Rigid Conduit and Standard Pipe

Product code	Size (in)	Size (mm)	Strap thickness (ga)	Design load (lb)	Install torque (in/lb)	Std. ctn.
GoldGalv® finish						
C 109R 1/2	½	12.7	14	600	40	100
C 109R 3/4	¾	19.05	14	600	40	100
C 109R 1	1	25.4	14	600	40	100
C 109R 1 1/4	1¼	31.75	14	600	40	100
C 109R 1 1/2	1½	38.1	12	800	60	50
C 109R 2	2	50.8	12	800	60	50
C 109 2 1/2	2½	63.5	12	800	60	50
C 109R 3	3	76.2	12	800	60	50
C 109 3 1/2	3½	88.9	11	1,200	60	25
C 109 4	4	101.6	11	1,200	60	25
SilverGalv® finish						
C 109R 1/2 EG	½	12.7	14	600	40	100
C 109R 3/4 EG	¾	19.05	14	600	40	100
C 109R 1 EG	1	25.4	14	600	40	100
C 109R 1 1/4 EG	1¼	31.75	14	600	40	100
C 109R 1 1/2 EG	1½	38.1	12	800	60	50
C 109R 2 EG	2	50.8	12	800	60	50
C 109 2 1/2 EG	2½	63.5	12	800	60	50
C 109 3 EG	3	76.2	12	800	60	50
C 109 3 1/2 EG	3½	88.9	11	1,200	60	25
C 109 4 EG	4	101.6	11	1,200	60	25

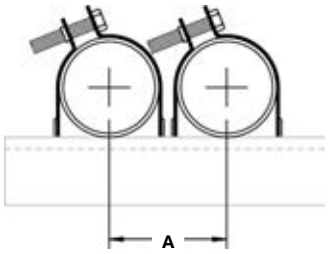
Hex head size ⅜" for ½" to 1¼" sizes, ½" for 1½" to 4" sizes.
Material: Stamped Steel.
Pipe sizes 2½" to 4" utilize the same clamps for the rigid Series and the Universal Series.

Superstrut™ support systems

Quik Clamp II™ pipe clamp (TBQC)

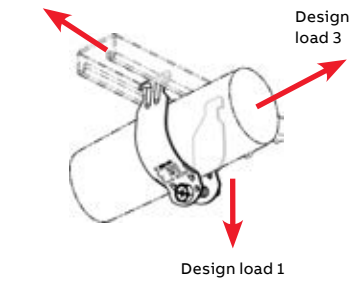
- True one-piece construction – arrives ready to install
- NO breaking apart – half the installation time of break-apart clamps
- Integral bolt and captive nut – no separate pieces to lose
- One size fits EMT and rigid conduit – takes the guesswork out of clamp selection
- Pipe size and catalog number stamped right on clamp
- Attaches a complete range of EMT and rigid conduit ½" (12.7mm) to 4" (101.6mm) to strut channels
- Multi-driver combo bolt head accepts a wrench, most screwdrivers or ½" nut driver
- Field-adjustable angle (±4°) allows for easy installation even when strut is not square
- Embossed J-hooks increase loading capabilities
- T&B flex window provides wrapping action around pipes
- Easy reconfiguration without complete disassembly – easily accessible angled bolt allows for field adjustments and closer conduit spacing
- Electrogalvanized finish for additional corrosion resistance

Quik Clamp II™ pipe clamp (TBQC)



Cat. No.	Dimension A: EMT trade size in. (mm)	Dimension A: Rigid cond. in. (mm)
CPC050	1⁵⁄₁₆" (33.5mm)	1¼" (31.5mm)
CPC075	1¾" (44.5mm)	1¹¹⁄₁₆" (43mm)
CPC100	1¹³⁄₁₆" (46mm)	1¾" (44.5mm)
CPC125	2⅛" (54mm)	2" (51mm)
CPC150	2⅜" (60.5mm)	2³⁄₁₆" (55.5mm)
CPC200	2⅝" (66.5mm)	2½" (63.5mm)
CPC250	3¹⁄₁₆" (78mm)	3¹⁄₁₆" (78mm)
CPC300	3¹¹⁄₁₆" (93.5mm)	3¹¹⁄₁₆" (93.5mm)
CPC350	4³⁄₁₆" (106.5mm)	4³⁄₁₆" (106.5mm)
CPC400	4¹¹⁄₁₆" (119mm)	4¹¹⁄₁₆" (119mm)

Loading data



Cat. No.	Design load 1 static load limit lb. (kg)	Design Load 2 lb. (kg)	Design Load 3 lb. (kg)
TBQC025	200 lb (91kg)	50 lb (23kg)	50 lb (23kg)
TBQC050			
TBQC075			
TBQC100			
TBQC125			
TBQC150			
TBQC200			
TBQC250	350 lb (158kg)		
TBQC300			
TBQC350			
TBQC400			

Design load 1 has a safety factor of 4. Design loads 2 and 3 have a safety factor of 1.

Superstrut™ support systems
Cobra® cable and pipe clamp (CPC)

Clear markings on each clamp identify the catalog number, min/max outer cable diameters, EMT/rigid trade sizes, CSA and UL® stamps. One size clamp works on equal trade sizes for both EMT and rigid conduit.

—
01 Loc-King Cobra™ cable and pipe clamp (LKCPC)

Design features include:

- Works with all depths of strut – 1³⁄₁₆" (30.2mm) to 3¼" (82.6mm).
- Two hooks on the same side make the clamp easy to install and keep conduits and cable square with strut.
- Rugged stirrup and wide saddle design holds securely with no damage to conduit or cable.
- Suggested design load is 200 lb (90.7kg), ½" (12.7mm) to 2" (50.8mm); 350 lb (158.8kg), 2½" (63.5mm) to 4" (101.6mm).
- Safety factor 4:1 (safety factor = ratio of ultimate load to the design load).
- Heavy-duty ⁵⁄₁₆" hex bolt with multi-driver head (Robertson square, Phillips cross-recess and slot) provides full range of installation options – virtually any tool will work.
- Bright zinc finish clamps are electogalvanized after fabrication for additional durability.

—
01

Superstrut™ support systems

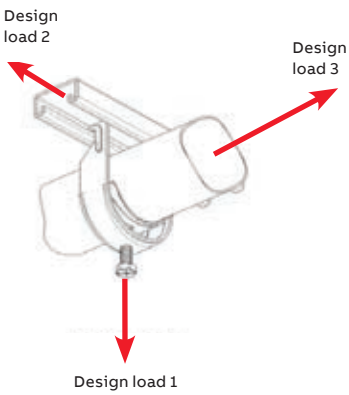
Cobra® cable and pipe clamp (CPC)

Cobra® cable and pipe clamp (CPC)

Cat. No.	Aluminum Cat. No.	Stainless steel 316L Cat. No.	EMT trade size in. (mm)	Rigid cond. trade size in. (mm)	Cable O.D. range (in)	Static load limit (lb) safety factor = 4	Qty. per box	Wt./C (lb)	Torque Value (ft - lb)
CPC025	CPC025AL	CPC025SS6	¼" (6.4mm)	¼" (6.4mm)	0.312 - 0.600	200	100	8	35
CPC050	CPC050AL	CPC050SS6	½" (12.7mm)	½" (12.7mm)	0.500 - 0.890			10	
CPC075	CPC075AL	CPC075SS6	¾" (19.1mm)	¾" (19.1mm)	0.860 - 1.110			12	
CPC100	CPC100AL	CPC100SS6	1" (25.4mm)	1" (25.4mm)	1.100 - 1.400			14	
CPC125	CPC125AL	CPC125SS6	1¼" (31.8mm)	1¼" (31.8mm)	1.400 - 1.725		50	16	
CPC150	CPC150AL	CPC150SS6	1½" (38.1mm)	1½" (38.1mm)	1.690 - 1.980			18	
CPC200	CPC200AL	CPC200SS6	2" (50.8mm)	2" (50.8mm)	1.980 - 2.576			24	
CPC250	CPC250AL	CPC250SS6	2½" (63.5mm)	2½" (63.5mm)	2.576 - 3.060	350	25	36	
CPC300	CPC300AL	CPC300SS6	3" (76.2mm)	3" (76.2mm)	3.060 - 3.626			42	
CPC350	CPC350AL	CPC350SS6	3½" (88.9mm)	3½" (88.9mm)	3.626 - 4.126			46	
CPC400	CPC400AL	CPC400SS6	4" (101.6mm)	4" (101.6mm)	4.126 - 4.626			50	

Standard material is commercial-grade, bright electrogalvanized steel. Stainless steel 316L is also available; add the suffix "SS6" to catalog no. (i.e. CPC050SS6).
Stainless steel bolt head is hexagonal and slotted only.

Loading data



Cat. No.	Aluminum Cat. No.	Stainless steel 316L Cat. No.	Design load 1 static load limit lb / (kg)	Design Load 2 lb / (kg)	Design Load 3 lb / (kg)
CPC025	CPC025AL	CPC025SS6	200 lb (91kg)	50 lb (23kg)	50 lb (23kg)
CPC050	CPC050AL	CPC050SS6			
CPC075	CPC075AL	CPC075SS6			
CPC100	CPC100AL	CPC100SS6			
CPC125	CPC125AL	CPC125SS6			
CPC150	CPC150AL	CPC150SS6			
CPC200	CPC200AL	CPC200SS6			
CPC250	CPC250AL	CPC250SS6	450 lb (204kg)		
CPC300	CPC300AL	CPC300SS6			
CPC350	CPC350AL	CPC350SS6			
CPC400	CPC400AL	CPC400SS6			

Design load 1 has a safety factor of 4. Design loads 2 and 3 have a safety factor of 1.

Superstrut™ support systems
Loc-King Cobra™ cable and pipe clamp (LKCPC)

Superior design load capabilities for industrial applications:
350 lb (158.8kg) for ½" (12.7mm) to 2" (50.8mm) trade sizes and
450 lb (204.1kg) for 2½" (63.5mm) to 4" (101.6mm) trade sizes.

— 01 Loc-King Cobra™ cable and pipe clamp (LKCPC)

Durable one-piece, heavy-duty steel construction – designed specifically for use in industrial applications:

- Embosses on shoulder and hooks increase loading capability and durability, preventing deformation of clamps.
- Rugged stirrup provides increased strength for heavier loads, minimizing deflection.
- Wider saddle design with anti-rotation tabs distributes load evenly over a larger surface area, preventing jacket damage.
- Increased corrosion protection – GoldGalv® (yellow zinc dichromate) finish stands up better to harsh industrial applications compared to conventional electrogalvanization.
- Parallel hook design keeps conduit and cable square with strut.
- Heavy-duty 5⁄16" hex bolt.
- One size clamp works on equal trade sizes for both EMT and rigid conduit, simplifying clamp specification.

— 01

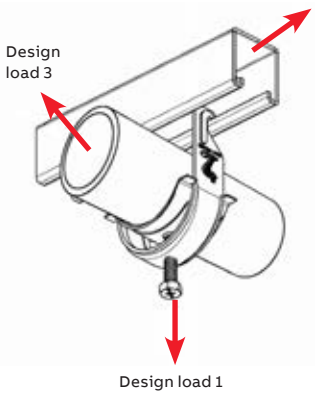
Superstrut™ support systems

Loc-King Cobra™ cable and pipe clamp (LKCPC)

Loc-King Cobra™ cable and pipe clamp (LKCPC)

Cat. No.	EMT trade size in. (mm)	Rigid cond. trade size in. (mm)	Cable O.D. range (in)	Static load limit (lb) safety factor = 4	Qty. per box	Wt./C (lb)	Torque Value (ft - lb)
LKCPC050	½" (12.7mm)	½" (12.7mm)	0.650 - 0.890	100	15	10	35
LKCPC075	¾" (19.1mm)	¾" (19.1mm)	0.860 - 1.110		16	12	
LKCPC100	1" (25.4mm)	1" (25.4mm)	1.100 - 1.400	50	19	14	
LKCPC125	1¼" (31.8mm)	1¼" (31.8mm)	1.400 - 1.725		23	16	
LKCPC150	1½" (38.1mm)	1½" (38.1mm)	1.690 - 1.980		27	18	
LKCPC200	2" (50.8mm)	2" (50.8mm)	1.980 - 2.576		38	24	
LKCPC250	2½" (63.5mm)	2½" (63.5mm)	2.576 - 3.060	25	44	36	
LKCPC300	3" (76.2mm)	3" (76.2mm)	3.060 - 3.626		53	42	
LKCPC350	3½" (88.9mm)	3½" (88.9mm)	3.626 - 4.126		58	46	
LKCPC400	4" (101.6mm)	4" (101.6mm)	4.126 - 4.626		66	50	

Loading data

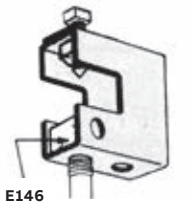


Cat. No.	Design load 1 static load limit (lb)	Design load 1 static load limit ( )	Design load 1 static load limit (lb)	Design load 1 static load limit ( )	Design load 1 static load limit (lb)	Design load 1 static load limit ( )
LKCPC050	350	159	50	23	50	23
LKCPC075						
LKCPC100						
LKCPC125						
LKCPC150						
LKCPC200						
LKCPC250						
LKCPC300	450	204				
LKCPC350						
LKCPC400						

Design load 1 has a safety factor of 4. Design loads 2 and 3 have a safety factor of 1.

Superstrut™ support systems clamps and hardware

Beam clamps and hanger rods

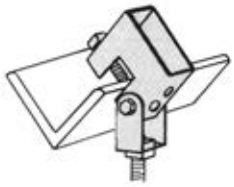


E146

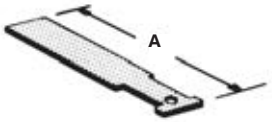
- ½" Set screw included
- Use with E146 square nut (order separately)
- For 20° swivel application, use ES145-1/2 nut

Beam clamps and hanger rods

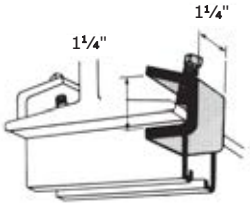
Cat. No.	Rod size (in)	Rod size (mm)	Design load (lb)	Design load (kg)
U562HDG	½	12.7	800	362.87
UM562HDGC	½	12.7	1200	544.31

	Cat. No.	Rod size (in)	Rod size (mm)	Design load (lb)	Design load (kg)
	US562HDGC	½	12.7	800	362.87

½" Set screw included.

	Cat. No.	Rod size (in)	Rod size (mm)	Design load (lb)	Design load (kg)
	U568-3EG	6	152.4	800	362.87
	U568-4EG	9	228.6		
	U568-5EG	12	304.8		

16 gauge material.

	Cat. No.	Design load (lb)	Design load (kg)
	U514HDGC	750 per pair	340.19 per pair

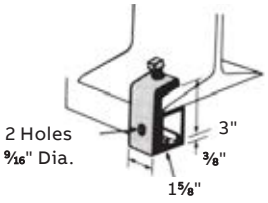
⅜" " x 1½" Set screw included.

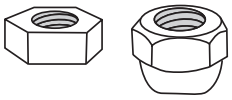
NOTE: Hot-dipped galvanized HDG(C) or stainless steel SS6(C) fittings are recommended to assemble aluminum channel. Also available in electrogalvanized (EG) and gold galvanized dichromate (no suffix). Std. Dimensions: Hole spacing 13/16" from end / Hole spacing 17/8" centers / Hole size 9/16" dia. / Fitting width 15/8". *See following page for more detailed ordering information.

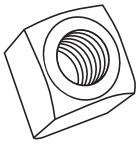
Superstrut™ support systems clamps and hardware

Beam clamps and hanger rods

Beam clamps and hanger rods

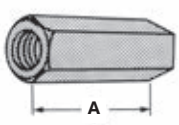
Cat. No.			Design load (lb)	Design load (kg)
	U515HDGC		800	362.87

	Cat. No.	Size (in)
	ES145-3/8EG	3/8
	ES145-1/2EG	1/2

	Cat. No.	Size (in)
	ES145-3/8EG	3/8
	ES145-3/8EG	3/8
	ES145-3/8EG	3/8
	ES145-3/8EG	3/8
	ES145-3/8EG	3/8

	Cat. No.	Size (in)	Threads per inch	Design load (lb)	Design load (kg)
	ES145-3/8EG	1/4	20	150	68.04
	ES145-3/8EG	3/8	16	610	276.69
	ES145-3/8EG	1/2	13	1130	512.56
	ES145-3/8EG	5/8	11	1810	821.00
	ES145-3/8EG	3/4	10	2710	1229.23
	ES145-3/8EG	7/8	9	3770	1710.04

Also available in stainless steel (304 and 316) in length of 6 ft (1.82m) Standard length 10 ft (3.04m).

	Rod size (in)	A (in)	A (mm)	Rod size (in)	A (in)	A (mm)
	1/4	7/8	20	5/8	2 1/8	20
	5/16	7/8	16	3/4	2 1/4	16
	3/8	1 1/8	10	7/8	2 1/2	10
	1/2	1 1/4	9	1	2 1/4	9

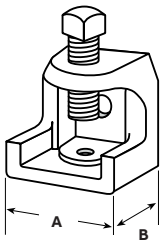
Order by product number, rod size and finish. Example: H119-1/2EGC. Finishes and materials: Gold galv. dichromate (no suffix), electrogalvanized (EG), hot-dipped galvanized (HDGC), stainless steel type 316 (SS6C).

Superstrut™ support systems clamps and hardware

Beam clamps and Trapnut® strut fastener

- CSA File No. LR-52208
- Also available in 316 stainless steel

Beam clamps - Malleable iron / silver electroplated finish



Cat. No.	A (in)	A (mm)	Base size B (in)	Base size B (mm)	Jaw opening (in)	Jaw opening (mm)	Tapping of base / back holes	Set screw load rating*	Torque (in/lb)	Std. ctn.
500-SC	1	25.4	1¼	31.75	1⁵⁄₁₆	20	¼ - 20	250	60	50
501	1½	38.1	1⅝	41.28	⅞	18	⁵⁄₁₆ - 18	500	60	50
502	2	50.8	2	50.8	1	25.4	⅜ - 16	750	120	50
503-SC	2⅝	66.68	2½	63.5	1	25.4	½ - 13	1,250	250	20
507	2½	63.5	2⅜	60.33	1⅜	34.93	½ - 13	1,250	250	20
508	2½	63.5	2⅜	60.33	2⅛	53.98	½ - 13	1,250	250	10
509	1	25.4	1¼	31.75	1⁵⁄₁₆	33.34	10 - 24	150	60	100
510	2⁷⁄₃₂	56.36	1⅛	28.58	⅝	15.88	¼ - 20	250	40	100
511-SC	2⁷⁄₃₂	56.36	1⅛	28.58	⅝	15.88	10 - 24	150	40	100

* Safety factor of 3.
Load Ratings based on bottom hole of beam clamp.

H 122 3/8
Trapnut® Strut
Fastener Galv-Krom®

H 122 3/8 EG
Trapnut® Strut
Fastener SilverGalv®

Trapnut® strut fastener

Cat. No.	Clamp type	Size (in)	Size (mm)	Design load (lb)	Std. ctn.
H 122 1/4	¼" Galv-Krom®	¼	60	150	50
H 122 3/8	⅜" Galv-Krom®	⅜	60	590	50
H 122 1/2	½" Galv-Krom®	½	120	1,080	50
H 122 1/4 EG	¼" SilverGalv®	¼	250	150	50
H 122 3/8 EG	⅜" SilverGalv®	⅜	250	590	50
H 122 1/2 EG	½" SilverGalv®	½	250	1,080	50
H 122 1/4 SS6	¼" Type 316 Stainless	¼	60	150	50
H 122 3/8 SS6	⅜" Type 316 Stainless	⅜	40	590	50
H 122 1/2 SS6	½" Type 316 Stainless	½	40	1,080	50

Superstrut™ support systems

SuperMag™ - Magnetic fittings for Superstrut™ metal framing

SilverGalv®

GoldGalv®

To enhance ease of installation, Thomas & Betts introduces our newest innovation - SuperMag magnetic fittings for its Superstrut metal framing line. Powerful, nickel-plated magnets embedded in the most popular Superstrut steel fittings, including square washers, L-brackets, T-brackets and 90° angle brackets, secure the fitting to the strut during assembly. Acting as a third hand, SuperMag fittings allow the installer to work more efficiently and safely with tools and hardware. Superstrut SuperMag magnetic fittings - another innovation from Thomas & Betts to help make installation safer, easier and more convenient.

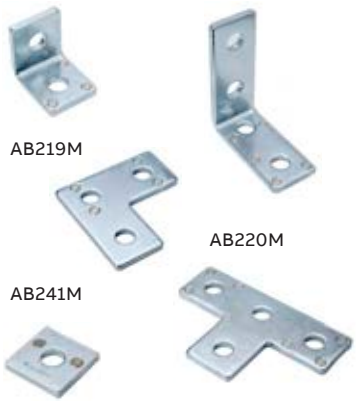
Features and benefits

- Adds convenience and safety to strut assembly by eliminating the need to manually hold fittings and strut together while installing bolts, nuts and rods
- Available in steel with both GoldGalv and SilverGalv finishes
- Features neodymium (NdFeB) grade N35 nickel-plated magnets
- SuperMag fittings support at least 2x their own weight
- Magnets hold in vertical and horizontal orientations
- Magnets are staked in place for dual-sided use

Applications

- New industrial and commercial construction
- Industrial maintenance and repair operations (MRO)
- Commercial building retrofits

Superstrut SuperMag magnetic fittings - Steel with GoldGalv or SilverGalv finish

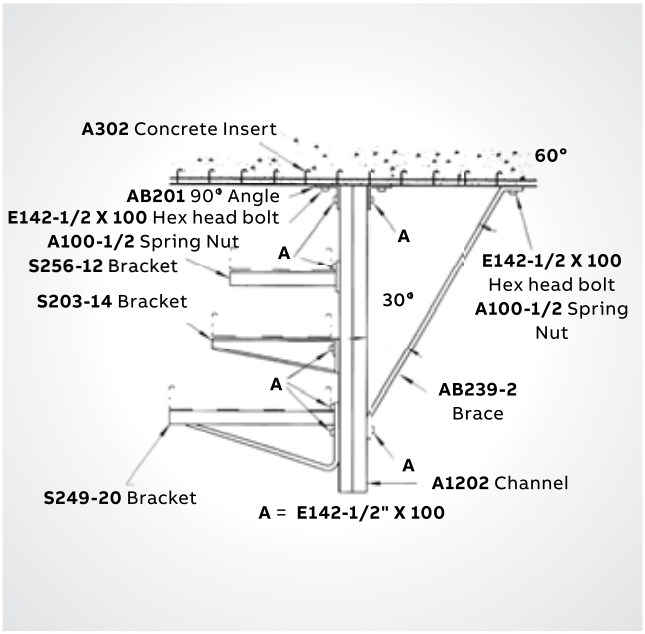
	Cat. No.	Description	Sandard pack quantity	UPC no.
AB202M AB205M AB219M AB220M AB241M 	AB202M	Magnetic 90° angle fitting, 2-hole, 1⅞"H x 2"L, GoldGalv®	50	616013-13357
	AB202M EG	Magnetic 90° angle fitting, 2-hole, 1⅞"H x 2"L, SilverGalv®	50	616013-13358
	AB205M	Magnetic 90° angle fitting, 4-hole, 4⅛"H x 3-1/2"L, GoldGalv®	25	616013-13359
	AB205M EG	Magnetic 90° angle fitting, 4-hole, 4⅛"H x 3-1/2"L, SilverGalv®	25	616013-13360
	AB219M	Magnetic flat L-bracket, GoldGalv®	25	616013-13361
	AB219M EG	Magnetic flat L-bracket, SilverGalv®	25	616013-13362
	AB220M	Magnetic flat T-bracket, GoldGalv®	25	616013-13363
	AB220M EG	Magnetic flat T-bracket, SilverGalv®	25	616013-13364
	AB241M 1/4	Magnetic square washer for ¼" bolt, GoldGalv®	100	616013-13369
	AB241M 1/4 EG	Magnetic square washer for ¼" bolt, SilverGalv®	100	616013-13370
	AB241M 3/8	Magnetic square washer for ⅜" bolt, GoldGalv®	100	616013-13367
	AB241M 3/8 EG	Magnetic square washer for ⅜" bolt, SilverGalv®	100	616013-13368
	AB241M 1/2	Magnetic square washer for ½" bolt, GoldGalv®	100	616013-13365
	AB241M 1/2 EG	Magnetic square washer for ½" bolt, SilverGalv®	100	616013-13366

NOTE: The magnets are only intended for use as an installer aid, not as a permanent installation method on their own. Magnetic fittings must be bolted in place following the same standard installation procedures as non-magnetic fittings for permanent installation. Standard finish is GoldGalv. For SilverGalv, please specify suffix EG when ordering.
Best for use with traditional or spring channel nuts.

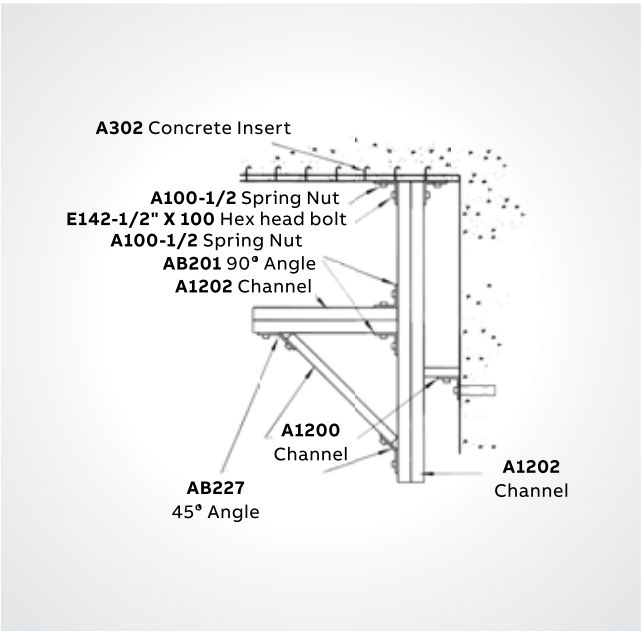
Superstrut™ support systems

Design applications/mechanical support

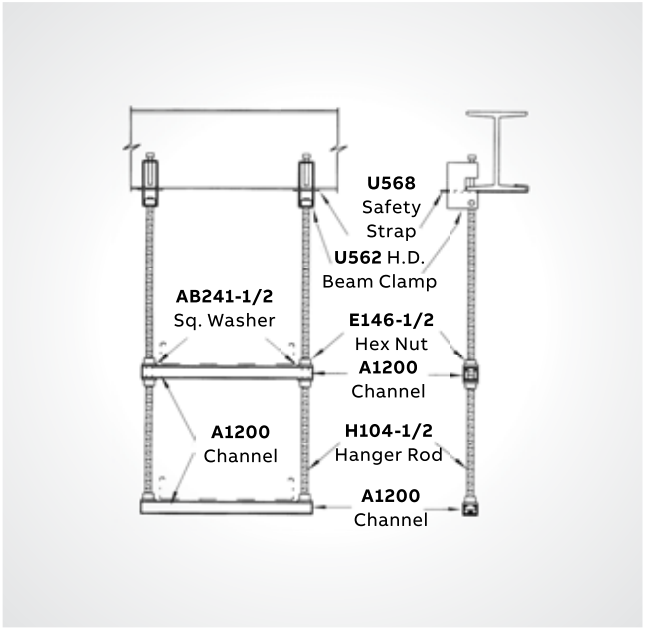
—
01



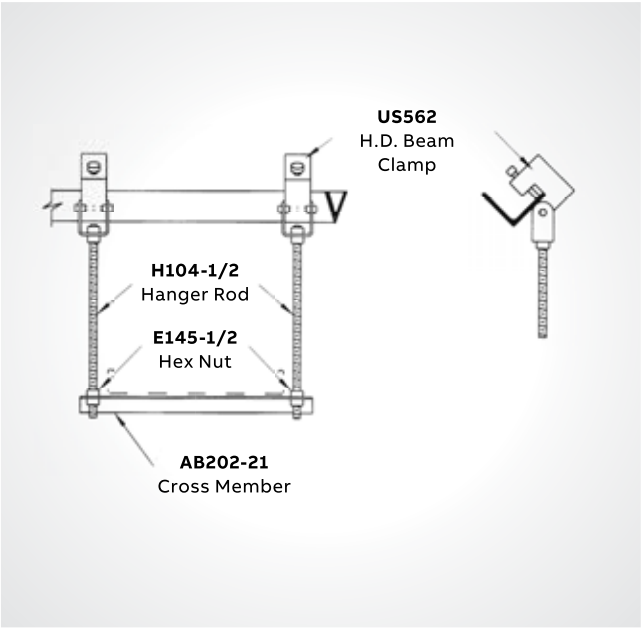
—
02



—
03



—
04



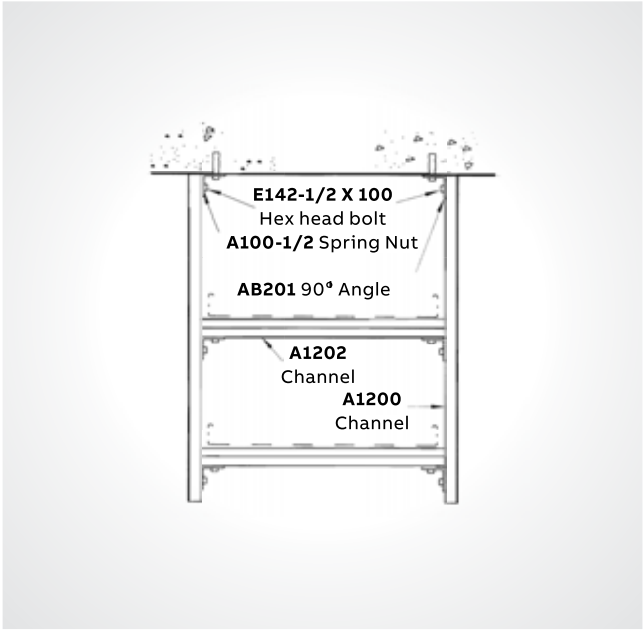
—
01 **Example 1**
Suspended column, carrying brackets, braced to the ceiling.

—
02 **Example 2**
Suspended column, holding bracket and console braced to wall.

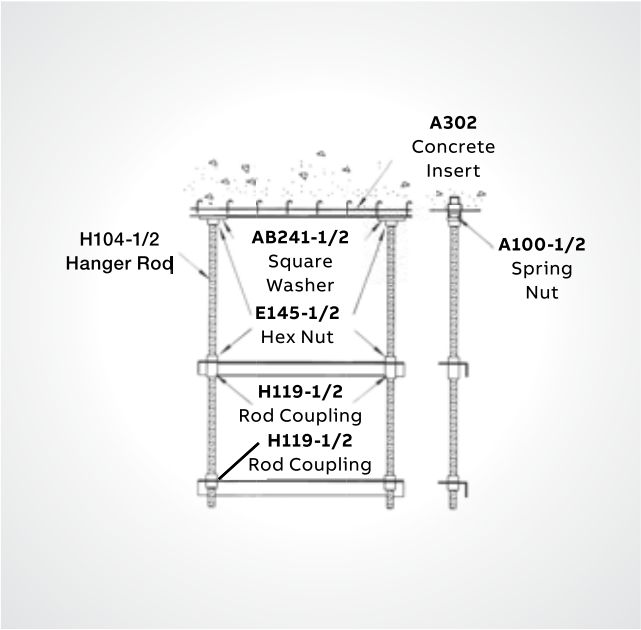
—
03 **Example 3**
Trapeze, T&B channels used as cross members.

—
04 **Example 4**
Sketch depicts the use of beam clamps on slanted beams.

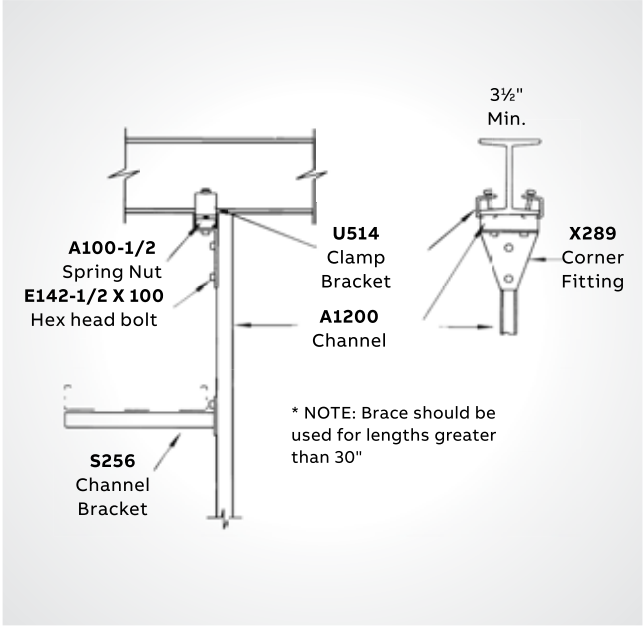
—
05



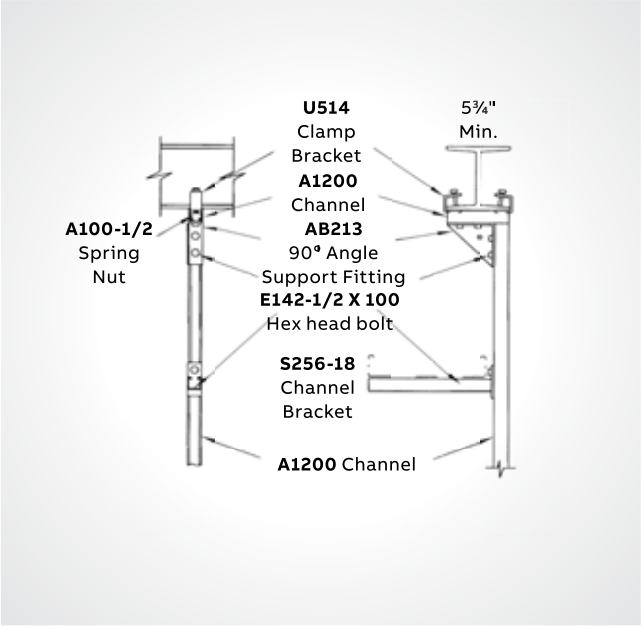
—
06



—
07



—
08



—
05 **Example 5**
Trapeze constructed from T&B channels, fittings. The use of spot inserts is shown.

—
06 **Example 6**
Trapeze using T&B hanger rods, cross members.

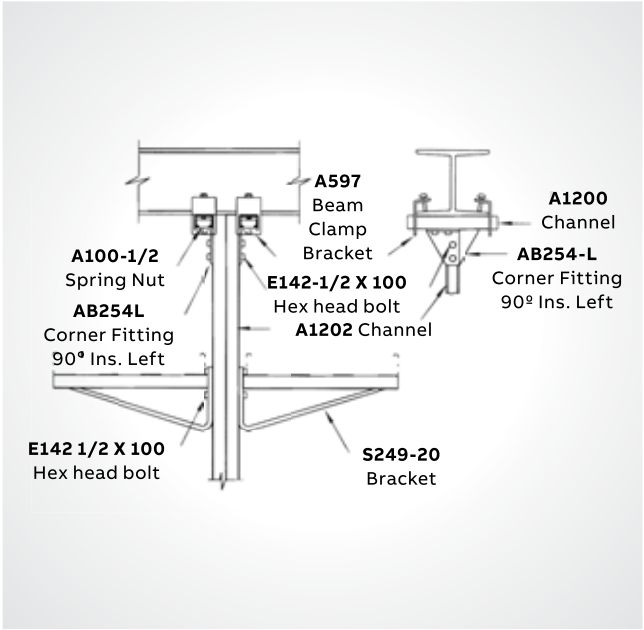
—
07 **Example 7**
Single-sided bracket application.

—
08 **Example 8**
Single-sided bracket application.

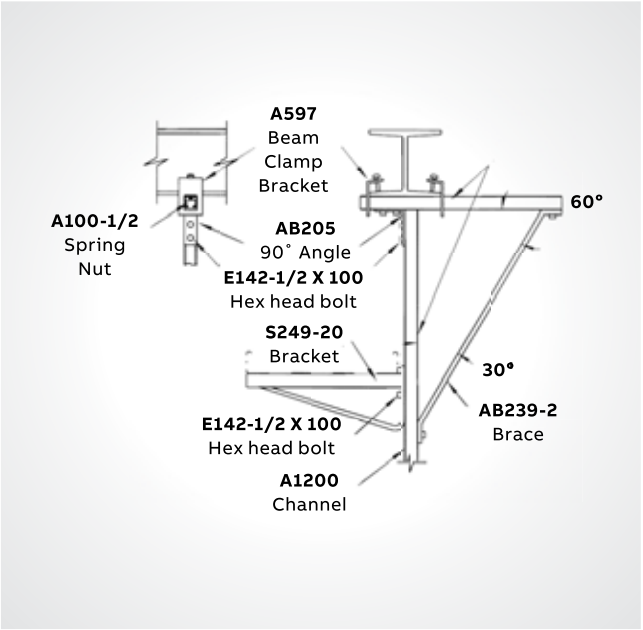
Superstrut™ support systems

Design applications/mechanical support

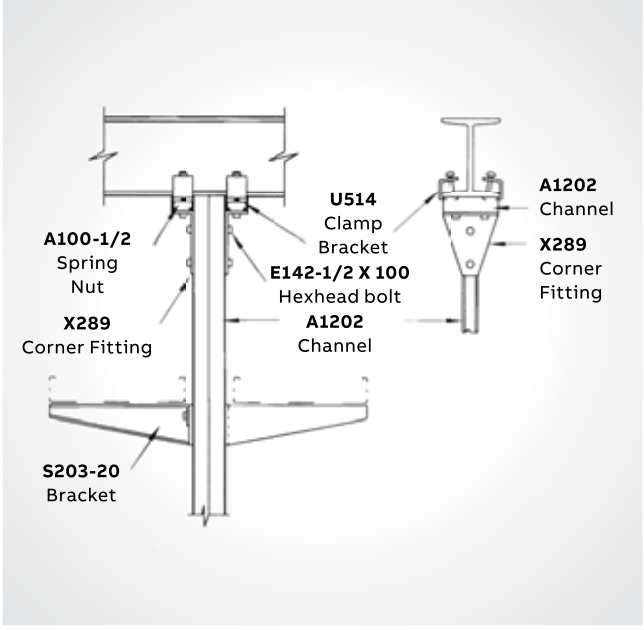
01



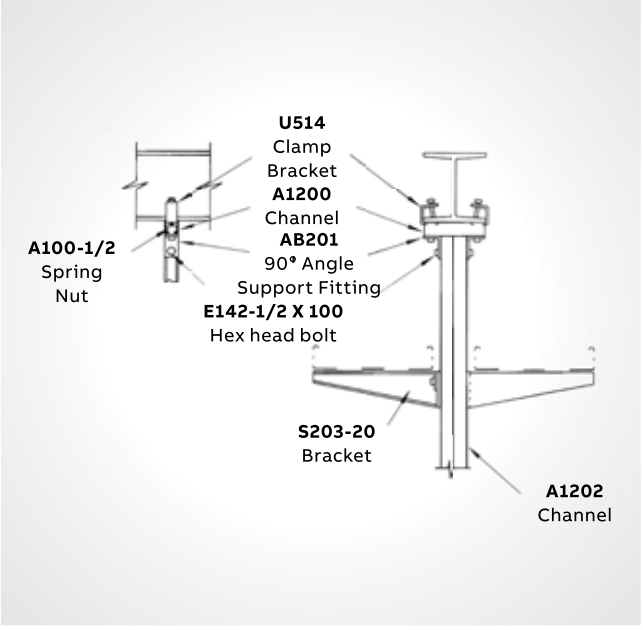
02



03



04



01 **Example 9**
Two-sided heavy-duty application.

02 **Example 10**
Heavy-duty bracket application.

03 **Example 11**
Brackets parallel to beam.

04 **Example 12**
Brackets perpendicular to beam.


EMT/RIGID
3/4"
EMT/RIGID
3/4"

Ty-Rap® standard cable ties
All-plastic cable ties

Characteristics
- State-of-the-art robotic and raw material handling equipment assures product and material integrity throughout the manufacturing process
- The integrally formed Polyamide pawl combines low insertion and high locking strength
- A rounded, low-profile head makes for less snags
- Tails have improved two-sided finger grip design that helps the operator grasp and pull ties snug
- Sure Grip tab keeps the tail from popping out while being threaded, then holds it securely for final tightening by hand or tool
- Quick and easy pull through increases productivity, reduces operator fatigue

Technical information
- Material: Polyamide 6.6 (*)
- Temperature range: -40°C to +85°C (natural and colours, excl. UV-resistant black)
- -40°C to +105°C (black)
- Min. Installation Temp. -20°C
- Colour Natural as standard colour (*)
- Approvals MIL: MS 3367-x (see table)
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free

Ty-Rap® standard cable ties

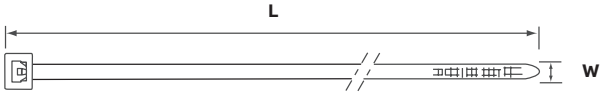
All-plastic cable ties

Product approvals

- Some approvals may not be applicable to all the catalogue numbers. Contact your sales office for approvals limitations

Standard cable ties - All-plastic cable ties

Cat. No.	MIL spec.	Length L (in)	Length L (mm)	Width W (in)	Width W (mm)	Bundle Ø from... to (in)	Bundle Ø from... to (mm)	Min. tensile strength (N)	Quantity (pieces)	Tooling
TY100-18	MS-3367-4	4 7/16	112	1/16	2.4	1/16 - 1	1.5 - 25	80	1000	ERG50
TY125-18	–	5 3/8	136	1/16	2.4	1/16 - 1 1/4	1.5 - 32	80	1000	
TY150-18	–	6 7/16	163	1/16	2.4	1/16 - 1 1/2	1.5 - 38	80	1000	
TY125-40	MS-3367-5	5 9/16	141	1/8	3.6	1/16 - 1 1/4	1.5 - 32	180	1000	
TY200-40	–	8 1/16	205	1/8	3.6	1/16 - 2	1.5 - 50	180	1000	
TY300-40	–	11 7/16	290	1/8	3.6	1/16 - 3	1.5 - 76	180	1000	
TY400-40	–	14 1/2	368	1/8	3.6	1/4 - 4	6.35 - 102	180	1000	
TY125-50	–	5 1/2	140	3/16	4.6	1/16 - 1 1/4	1.5 - 32	220	1000	ERG50 ERG120
TY175-50	MS-3367-1	7 5/16	186	3/16	4.6	1/8 - 1	3.17 - 44	220	1000	
TY225-50	–	8 7/8	226	3/16	4.6	1/8 - 2 1/4	3.17 - 57	220	1000	
TY300-50	MS-3367-7	11 7/16	291	3/16	4.6	1/8 - 3	3.17 - 76	220	1000	
TY400-50	MS-3367-2	14 7/16	366	3/16	4.6	1/8 - 4	3.17 - 102	220	1000	
TY200-120	–	18 5/8	219	5/16	7.6	9/16 - 2	15 - 50	540	500	ERG120 L-500-EU WT3D
TY300-120	–	11 3/8	289	5/16	7.6	9/16 - 3	15 - 76	540	100	
TY400-120	MS-3367-3	14 3/4	375	5/16	7.6	9/16 - 4	15 - 102	540	50/100	
TY450-120	–	18	457	5/16	7.6	9/16 - 4 7/8	15 - 124	540	50	
TY600-120	–	24	610	5/16	7.6	9/16 - 7 1/4	15 - 184	540	50	
TY800-120	MS-3367-6	27 13/16	706	5/16	7.6	1/4 - 8	6.35 - 204	540	50	



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties - Natural

Characteristics

- Standard version (Polyamide 6.6), to cover most indoor applications
- Several lengths and 6 typical widths with a tensile strength up to 780N, to cover the most demanding applications

Technical information

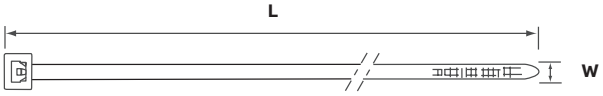
- Material - Moulding: Polyamide 6.6
- Material - Locking barb: 316 grade stainless steel
- Temperature range: -60°C to +85°C
- Min. Installation Temp: -20°C
- Colour: Natural
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free

Product approvals

- Some approvals may not be applicable to all the catalogue numbers. Contact your sales office for approvals limitations

Ty-Rap® High performance cable ties - Polyamide 6.6 cable ties - Natural

Cat. No.	MIL spec.	Length L (in)	Length L (mm)	Width W (in)	Width W (mm)	Thickness (in)	Thickness (mm)	Bundle Ø from... to (in)	Bundle Ø from... to (mm)	Min. tensile strength (N)	Quantity (pieces)	Tooling
TY23M	MS-3367-4	3⅝	92	3/32	2.3	1/32	1.0	1/16 - 1	1.5 - 22	80	1000	ERG50
TYB2315M	–	7	178	3/32	2.3	1/32	1.0	1/16 - 1¼	1.5 - 32	80	1000	
TY232M	–	8	203	3/32	2.3	1/32	1.0	1/16 - 1½	1.5 - 51	80	1000	
TY234M	–	14	356	3/32	2.3	1/32	1.0	1/16 - 1¼	1.5 - 102	80	1000	
TY24M	MS-3367-5	5½	140	1/8	3.6	1/32	1.1	3/32 - 1⅛	2 - 35	178	1000	
TY242M	–	8 3/16	208	1/8	3.6	1/32	1.1	3/32 - 2	2 - 51	180	1000	
TY26M	–	11 3/16	284	1/8	3.6	1/32	1.1	3/32 - 3	2 - 76	130	1000	
TY244M	–	14½	368	1/8	3.6	1/32	1.1	3/32 - 4	2 - 102	134	1000	
TY25M	MS-3367-1	7 5/16	186	3/16	4.8	1/16	1.3	1/8 - 1⅞	3 - 48	222	1000	ERG50 ERG120
TY253M	MS-3367-7	11 7/16	290	3/16	4.8	1/16	1.3	1/8 - 3 1/16	3 - 78	222	1000	
TY28M	MS-3367-2	14 3/16	361	3/16	4.8	1/16	1.3	1/8 - 4	3 - 102	222	1000	
TY271M	–	5 15/16	150	9/32	7.0	1/16	1.6	¼ - 1¼	6 - 31	540	500	ERG120 L-500-EU
TY272M	–	8¾	223	9/32	6.9	1/16	1.6	¼ - 2	6 - 51	540	500	
TY27M	MS-3367-3	13⅜	340	9/32	7.0	1/16	1.6	¼ - 4	6 - 102	540	500	
TY275M	–	18	457	9/32	7.0	1/16	1.6	¼ - 5	6 - 127	540	500	
TY277M	–	24 5/16	617	9/32	7.0	1/16	1.6	¼ - 7	6 - 177	540	500	
TY29M	MS-3367-6	30⅜	771	9/32	6.9	1/16	1.5	¼ - 9	6 - 229	540	500	
TY53510M	–	35	889	5/16	8.2	1/16	1.7	to 10	to 254	780	50	WT3D L-500-EU
TY54513M	–	45	1143	5/16	8.2	1/16	1.7	to 13	to 330	780	50	



Ty-Rap® high performance cable ties

Polyamide 6.6 cable ties - UV-resistant black

Characteristics

- UV-resistant version, especially recommended for outdoor applications
- Black version (2% carbon for military specifications)
- Also available in heat stabilised + UV-resistant version (contains 2% carbon according to military application), for outdoor applications that also require a resistance to high temperature (+105°C)
- Several lengths and 6 typical widths with a tensile strength up to 780N, to cover the most demanding applications

Technical information

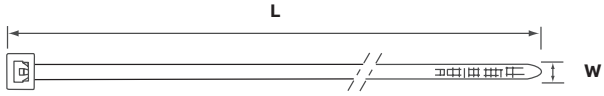
- Material - Moulding: Polyamide 6.6
- Material - Locking barb: 316 grade stainless steel
- Temperature range: -60°C to +1055°C
- Min. Installation Temp: -30°C
- Colour: Black
- Flammability rating: UL 94 V-2
- Other properties: Halogen free, silicone free

Product approvals

- Some approvals may not be applicable to all the catalogue numbers. Contact your sales office for approvals limitations

Ty-Rap® High performance cable ties - Polyamide 6.6 cable ties - UV-resistant black

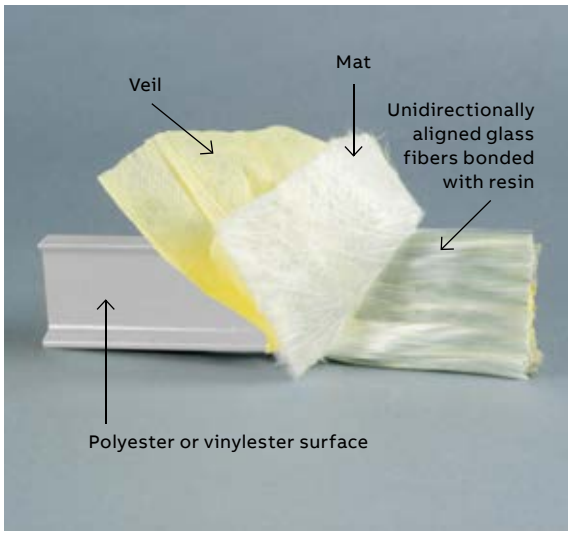
Cat. No.	MIL spec.	Length L (in)	Length L (mm)	Width W (in)	Width W (mm)	Thickness (in)	Thickness (mm)	Bundle Ø from... to (in)	Bundle Ø from... to (mm)	Min. tensile strength (N)	Quantity (pieces)	Tooling
TY23MX	MS-3367-4	3⅝	92	3/32	2.3	1/32	1.0	1/16 - 1	1.5 - 22	80	1000	ERG50
TYB2315MX	–	7	178	3/32	2.3	1/32	1.0	1/16 - 1¼	1.5 - 32	80	1000	
TY232MX	–	8	203	3/32	2.3	1/32	1.0	1/16 - 1½	1.5 - 51	80	1000	
TY234MX	–	14	356	3/32	2.3	1/32	1.0	1/16 - 1¼	1.5 - 102	80	1000	
TY24MX	MS-3367-5	5½	140	1/8	3.6	1/32	1.1	3/32 - 1⅛	2 - 35	180	1000	
TY242MX	–	8 3/16	208	1/8	3.6	1/32	1.1	3/32 - 2	2 - 51	180	1000	
TY26MX	–	11 3/16	284	1/8	3.6	1/32	1.1	3/32 - 3	2 - 76	130	1000	
TY244MX	–	14½	368	1/8	3.6	1/32	1.1	3/32 - 4	2 - 102	130	1000	
TY25MX	MS-3367-1	7 5/16	186	3/16	4.8	1/16	1.3	1/8 - 1⅞	3 - 48	220	1000	ERG50 ERG120
TY253MX	MS-3367-7	11 7/16	290	3/16	4.8	1/16	1.3	1/8 - 3 1/16	3 - 78	222	1000	
TY28MX	MS-3367-2	14 3/16	361	3/16	4.8	1/16	1.3	1/8 - 4	3 - 102	222	1000	
TY271MX	–	5 15/16	150	9/32	7.0	1/16	1.6	¼ - 1¼	6 - 31	540	500	ERG120 L-500-EU
TY272MX	–	8¾	223	9/32	6.9	1/16	1.6	¼ - 2	6 - 51	540	500	
TY27MX	MS-3367-3	13⅜	340	9/32	7.0	1/16	1.6	¼ - 4	6 - 102	540	500	
TY275MX	–	18	457	9/32	7.0	1/16	1.6	¼ - 5	6 - 127	540	500	
TY277MX	–	24 5/16	617	9/32	7.0	1/16	1.6	¼ - 7	6 - 177	540	500	
TY29MX	MS-3367-6	30⅜	771	9/32	6.9	1/16	1.5	¼ - 9	6 - 229	540	500	
TY53510MX	–	35	889	5/16	8.2	1/16	1.7	to 10	to 254	780	50	WT3D L-500-EU
TY54513MX	–	45	1143	5/16	8.2	1/16	1.7	to 13	to 330	780	50	



Nonmetallic - Cable tray
Overview

Why specify our cable tray?
Nonmetallic cable tray systems have been tested and proven in the harsh environment of the offshore oil and gas industry. This tray is ideally suited to withstand the corrosive conditions inherent in the petroleum, mining, and fertilizer industries. In these applications, nonmetallic tray is exposed daily to wind, weather, and saltwater.

Nonmetallic cable tray gives you the load capacity of steel plus the inherent characteristics afforded by our pultrusion technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, their strength-to-weight ratio surpasses that of equivalent steel products.



—
01

—
01 A surface veil is applied during the pultrusion process to ensure a resin rich surface for superior corrosion resistance as well as an ultraviolet exposure barrier.

Nonmetallic - Cable tray

Overview *(continued)*

Why specify our cable tray?
Nonmetallic cable tray systems have been tested and proven in the harsh environment of the offshore oil and gas industry. This tray is ideally suited to withstand the corrosive conditions inherent in the petroleum, mining, and fertilizer industries. In these applications, nonmetallic tray is exposed daily to wind, weather, and saltwater.

Nonmetallic cable tray gives you the load capacity of steel plus the inherent characteristics afforded by our pultrusion technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, their strength-to-weight ratio surpasses that of equivalent steel products.

Table 1 – Typical properties of pultruded components

			Isophthalic Polyester	
Properties	**Test method**	**Unit/value**	**Longitudinal**	**Transverse**
Tensile strength	ASTM D638	psi	30,000	7,000
Tensile modulus	ASTM D638	psi x 10^6	2.5	0.8
Flexural strength	ASTM D790	psi	30,000	10,000
Flexural modulus	ASTM D790	psi x 10^6	1.6	0.8
Izod impact	ASTM D256	ft-lbs/in	25	4
Compressive strength	ASTM D695	psi	30,000	15,000
Compressive modulus	ASTM D695	psi x 10^6	2.5	1.0
Barcol hardness	ASTM D2583	–	50	45
Shear strength	ASTM D732	psi	5,500	5,500
Density	ASTM D1505	lbs/in3	0.065	–
Coefficient of thermal expansion	ASTM D696	in/in/°F	5.0 x 10-6	–
Water absorption	ASTM D570	Max %	0.5	–
Dielectic strength	ASTM D149	V/mil (vpm)	200	–
Flammability classification	UL94	VO (both resins)	–	–
Flame spread	ASTM E-84	20 Max (both resins)	–	–

T&B® nonmetallic cable tray systems are manufactured from glass fiber-reinforced plastic shapes that meet the ASTM E-84 Class 1 flame rating and self-extinguishing requirements of ASTM D-635. A surface veil is applied during pultrusion to ensure a resin-rich surface and ultraviolet resistance.

Table 1 – Typical properties of pultruded components

Properties	**Ignition**	**Burning**	**Rating**	**Avg. Extent of Burning**
Flame resistance (FTMS 406-2023)	75 seconds	75 seconds	–	–
Intermittent flame test (HLT- 15)	–	–	100	–
Flammability test (ASTM D635)	–	5 seconds	–	15mm

Technical information

Corrosion guide

The information shown in this corrosion guide is based on full immersion laboratory tests and data generated from resin manufacturers. It should be noted that in some of the environments listed, splashes and spills may result in a more corrosive situation than indicated due to the evaporation of water. Regular wash down is recommended in these situations.

Chemical resistance

Chemical environment	75°F (24°C)	160F° (71°C)
Acetic Acid 5%	FR-P	FR-P
Acetic Acid 25%	FR-P	FR-VE-210° (*)
Aluminum Potassium Sulfate 5%	FR-P	FR-P
Ammonium Hydroxide 10%	FR-P	FR-VE-150°
Ammonium Nitrate	FR-P	FR-P
Benzenesulfonic Acid 5%	FR-P	FR-P
Calcium Chloride	FR-P	FR-P
Carbon Tetrachloride	FR-VE	FR-VE-100° (*)
Chlorine Dioxide 15%	FR-P	FR-VE-150° (*)
Chromic Acid 5%	FR-P	FR-VE-150° (*call)
Copper Sulfate	FR-P	FR-P
Diesel Fuel No. 1	FR-P	FR-P
Diesel Fuel No. 2	FR-P	FR-P
Ethylene Glycol	FR-P	FR-P
Fatty Acids 100%	FR-P	FR-P
Ferrous Sulfate	FR-P	FR-P
Fluosilicic Acid 0-20%	FR-VE	FR-VE (call)
Hydrochloric Acid 1%	FR-P	FR-P
Hydrochloric Acid 15%	FR-P	FR-VE-180° (*)
Hydrochloric Acid 37%	FR-P	FR-VE-150° (*)
Hydrogen Sulfide	FR-P-140°	FR-VE-210°
Kerosene	FR-P	FR-P
Magnesium Chloride	FR-P	FR-P

Chemical environment	75°F (24°C)	160F° (71°C)
Methyl Alcohol 10%	FR-P	FR-VE-150° (*)
Naphtha	FR-P	FR-P
Nitric Acid 5%	FR-P	FR-P
Nitric Acid 20%	FR-VE	FR-VE-120° (*)
Phosphoric Acid 10%	FR-P	FR-P
Phosphoric Acid 30%	FR-P	FR-P
Phosphoric Acid 85%	FR-P	FR-P
Sodium Bicarbonate 10%	FR-P	FR-P
Sodium Bisulfate	FR-P	FR-P
Sodium Carbonate	FR-P	FR-VE
Sodium Chloride	FR-P	FR-P
Sodium Hydroxide 1-50%	FR-VE	FR-VE-120° (*)
Sodium Hypochlorite 5%	FR-P	FR-VE-120° (*)
Sodium Nitrate	FR-P	FR-P
Sodium Silicate	FR-P	FR-VE-210° (*)
Sodium Sulfate	FR-P	FR-P
Sulfuric Acid 0-30%	FR-P	FR-P
Sulfuric Acid 30-50%	FR-VE	FR-VE
Sulfuric Acid 50-70%	FR-VE	FR-VE-180° (*)
Trisodium Phosphate 25%	FR-P	FR-VE-210° (*)
Trisodium Phosphate - All	FR-VE	FR-VE-210° (*)
Water, Distilled	FR-P	FR-P

Symbols:
FRP - Polyester fire-retardant
FRVE - Vinyl Ester fire-retardant

All data represents the best available information and is believed to be correct. The data should not be construed as a warranty of performance for that product as presented in these tables. User tests should be performed to determine suitabiity of service if there is any doubt or concern. Such variables as concentration, temperature, time of exposure and combined chemical effects of mixtures of chemicals make it impossible to specify the exact suitability of fiber-reinforced plastics in all environments. Thomas & Betts will be happy to supply material samples for testing. These recommendations should only be used as a guide, and Thomas & Betts does not take responsibility for design or suitability of materials for service intended. In no event will Thomas & Betts be liable for any consequential or special damages for any defective material or workmanship including, without limitation, labor charges or other expenses or damage to property resulting from loss of materials or profits or increased expenses of operations.

Technical information
CSA and NEMA loading classes

The standard classes of cable trays, as related to their maximum design loads and to the associated design support spacing based on a simple beam span requirement, shall be designated in accordance with Table 1.

Selection process

Please note the load ratings in Table 1 are those most commonly used. Other load ratings are acceptable. (according to NEMA VE-1/CSA C22.2 No 126.1-02).

Costs vary between different load classes. Since labor and coupling costs are similar for a given length of tray, the heavier classes are less cost-effective on a load length basis. The designer should therefore specify the lightest class of tray compatible with the weight requirements of the cable tray.

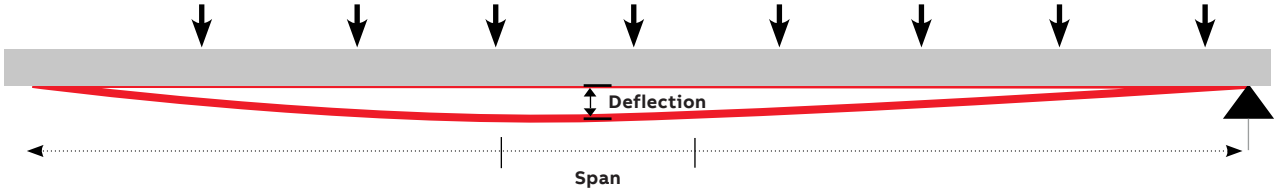
Table 1 – Span/load class designation – USA

Load		Span m (ft)				
kg/m	(lb/ft)	1.5 (5)	2.4 (8)	3.0 (10)	3.7 (12)	6.0 (20)
37	(25)	5AA	8AA	10AA	12AA	20AA
74	(50)	5A	8A	10A	12A	20A
112	(75)	–	8B	–	12B	20B
149	(100)	–	8C	–	12C	20C

NOTE: These ratings are also used in Mexico.

Table 1 – Span/load class designation – CANADA

Load		Span m (ft)						
kg/m	(lb/ft)	1.5 (5)	2.0 (6.5)	2.5 (8.2)	3.0 (10)	4.0 (13)	5.0 (16.4)	6.0 (20)
37	(25)	–	–	–	A	–	–	–
45	(30)	–	–	A	–	–	–	–
62	(42)	–	A	–	–	–	–	–
67	(45)	–	–	–	–	–	–	D
82	(55)	–	–	–	–	–	D	–
97	(65)	–	–	–	C	–	–	–
99	(67)	A	–	–	–	–	–	–
112	(75)	–	–	–	–	–	–	E
113	(76)	–	–	–	–	D	–	–
119	(80)	–	–	C	–	–	–	–
137	(92)	–	–	–	–	–	E	–
164	(110)	–	C	–	–	–	–	–
179	(120)	–	–	–	D	–	–	–
189	(127)	–	–	–	–	E	–	–
259	(174)	C	–	–			–	–
299	(200)	–	–	–	E	–	–	–



Loading capacity

Cable loads
The cable load is the total weight, expressed in (lb./ft), of all the cables that will be placed in the cable tray.

Snow loads
Depending on the area, snowfall could indicate an additional design load. If snowfall is a factor and the tray has a solid cover in outdoor installations, a minimum load of 5 lb (2.27kg). per square foot should be used.

Ice loads
If a cable tray system is subject to icing conditions, usually only the top surface or cover and the windward side will be coated with any significant amount. It is generally assumed that ice weighs 57 lb (25.85kg) per cubic foot.

Wind loads
All outdoor cable tray installations should factor in wind loads, especially the pressure exerted on side rails of ladder trays. There have also been instances of strong winds lifting covers off trays, which can be minimized with the use of wraparound cover clamps.

Concentrated loads

A concentrated static load is not included in Table 1 (following page). Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied on the centerline of the tray at midspan. When so specified, the concentrated static load may be converted to an equivalent uniform load (We) in kilograms/meter (pounds), using the following formula, and added to the static weight of cable in the tray:

$$We = \frac{2 \times (\text{concentrated static load, kg (lb.)})}{\text{Span length, m (ft.)}}$$

This combined load may be used to select a suitable load/span designation. If the combined load exceeds the working load shown on the following page, the manufacturer should be consulted.

Effect of temperature

Strength properties of reinforced plastics are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced based on table 2.

Table 2 – Effect of temperature

Temperature		Approximate % of strength	
(°C)	(°F)	Isophthalic polyester	Vinylester
23.8	75	100	100
37.7	100	90	100
51.6	125	78	100
65.5	150	68	90
79.4	175	60	90
93.3	200	52	75

NEMA Standard 8-10-1986.
If unusual temperature conditions exist, the manufacturer should be consulted.

Technical information
Thermal contraction and expansion

It is important that thermal contraction and expansion be considered when installing cable tray systems. The length of the straight cable tray runs and the temperature differential govern the number of expansion splice plates required (see Table 1 below).

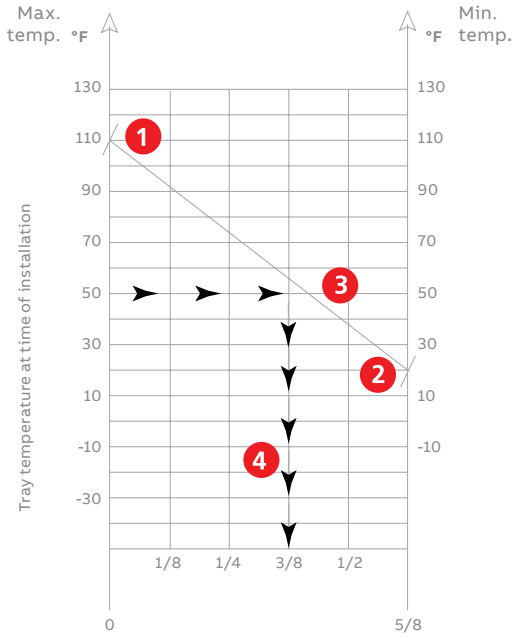
—
01 Typical cable tray installation

The cable tray should be anchored at the support nearest to its midpoint between the expansion splice plates and secured by expansion guides at all other support locations (see diagram 01). The cable tray should be permitted longitudinal movement in both directions from that fixed point.

Accurate gap setting at the time of installation is necessary for the proper operation of the expansion splice plates. The following procedure should assist the installer in determining the correct gap (see Figure 1):

1. Plot the highest expected tray temperature on the maximum temperature line.
2. Plot the lowest expected tray temperature on the minimum temperature line.
3. Draw a line between the maximum and minimum points.
4. Plot the tray temperature at the time of installation to determine the gap setting.

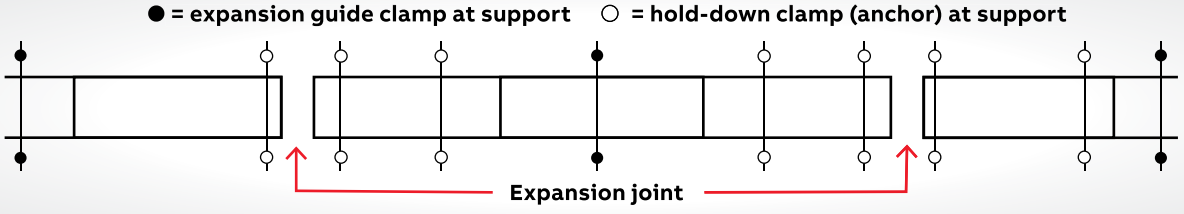
Figure 1 - Proper gap settings



—
01

—
Table 1 - Expansion or contraction for various temperature differences

Temperature differential		Max. distance between expansion connector* for 1" (25.4mm) expansion		Max. distance between expansion connector* for ⅝" (15.9mm) expansion	
°F	°C	(ft)	(m)	(ft)	(m)
14	25	667	203.3	417	127.1
28	50	333	101.5	208	63.3
42	75	222	67.6	139	42.3
56	100	167	50.9	104	31.7
70	125	133	40.5	83	25.2
83	150	111	33.8	69	21
97	175	95	28.9	59	17.9



Technical information
Installation guidelines

Installation of T&B® nonmetallic cable tray should be made in accordance with the standards set by the NEMA VE2 publication and CSA standards.

Always observe common safety practices when assembling tray and fittings. Installations generally require some field cutting. Dust created during fabrication presents no serious health hazard, but skin irritation may be experienced by some workers.

Operators of saws and drills should wear masks, long-sleeve shirts or coveralls.

Fabrication with nonmetallic cable tray is relatively easy and comparable to working with wood. Ordinary hand tools may be used in most cases.

Avoid excessive pressure when sawing or drilling. Too much force can rapidly dull tools and also produce excessive heat, which softens the bonding resin in the nonmetallic cable tray, resulting in a ragged edge rather than a clean-cut edge.

Field cutting is simple and can be accomplished with a circular power saw with an abrasive cut-off wheel (masonry type) or hack saw (24 to 32 teeth per inch).

Drill nonmetallic as you would drill hardwood. Standard twist drills are more than adequate. Any surface that has been drilled, cut, sanded or otherwise broken must be sealed with a compatible resin. Carbide-tipped saw blades and drill bits are recommended when cutting large quantities.

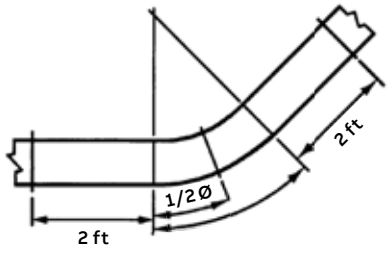
Support the nonmetallic cable tray material firmly during cutting operations to keep material from shifting, which may cause chipping at the cut edge.

Each tray section length should be equal to or greater than the support span. When possible, the splice should be located at quarter span.

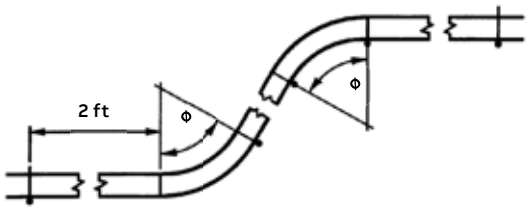
Fittings should be supported as per NEMA VE2.

Technical information
Cable tray support locations

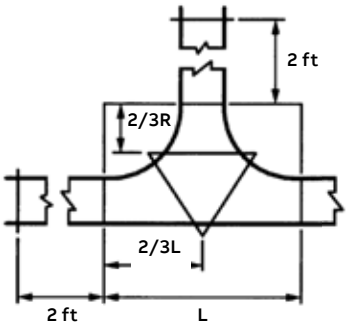
Horizontal elbow



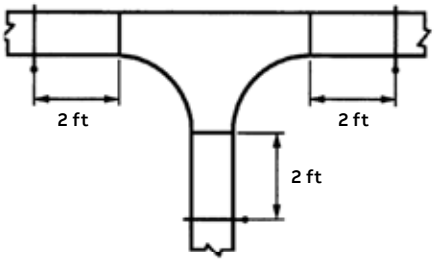
Vertical elbow



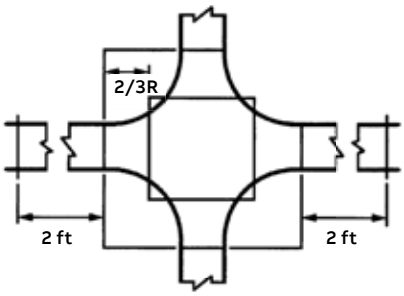
Horizontal tee



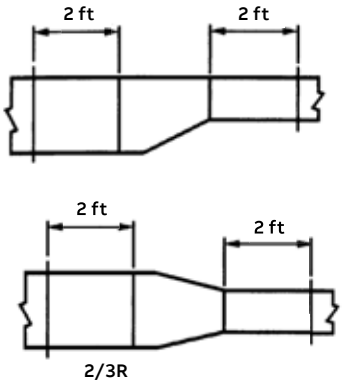
Horizontal wye



Horizontal cross



Horizontal reducer



*NOTE: ø = 30°, 45°, 60°, 90° (degree of fitting)

FRP Cable Tray specifications
External revision 1

*Dimension Conversion Table:
2" = 50.8mm
3" = 76.2mm
4" = 101.6mm
5" = 127mm
7" = 177.8mm
6" = 152.4mm
8" = 203.2mm
9" = 228.6mm
9.25" = 235mm
12" = 304.8mm
18" = 355.6mm
18.5" = 470mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Section 1 - Acceptable manufacturers

1.01 Cable tray system shall be made of straight sections, fittings and accessories as defined in the latest CSA/NEMA standards publication.

1.02 All manufacturing practices will be in accordance with CSA/NEMA.

1.03 Cable trays shall be by Thomas & Betts, or approved CSA/NEMA member.

Section 2 - Cable tray design

2.01 Straight section structural elements; side rails, rungs and splice plates shall be pultruded from glass fiber reinforced polyester or vinylester resin.

2.02 Pultruded shapes shall be constructed with a surface veil to ensure a resin-rich and ultravioletresistant surface.

2.03 Pultruded shapes shall meet the ASTM E-84 Class 1 flame rating and self-extinguishing requirements of ASTM D-635.

Section 3 - Construction

3.01 Straight section lengths will be 120" (10 ft (3.05m)) or 240" (20 ft (6.10m)) standard.

3.02 Side rails will be inward “C” configuration and be predrilled to accept splice plates.

3.03 Overall heights shall be 8, 6, 4 or 3" (*mm) respectively.

3.04 Loading depths for cable tray systems shall be 7, 5, 3 or 2" (*mm) as per CSA/NEMA tolerances.

3.05 Loading classifications and test specimens shall be per CSA/NEMA.

3.06 Rung spacing shall be 6, 9.25, 12 or 18.5" (*mm)

Section 4 - Dimensions

4.01 All fittings shall be of mitered design type with a minimum 3" (76.2mm) tangent following the radius.

4.02 All fittings shall have a nominal 9.25" rung spacing.

4.03 Width (usable inside tray width) shall be 6, 9, 12, 18, 24, 30 or 36" (*mm).

4.04 Outside width shall not exceed inside width by more than a total of 2" (50.8mm).

4.05 Straight and expansion splice plates will be of stainless steel or fiberglass design with an eight-bolt pattern in 5" (127mm) fill systems and four-bolt pattern for 3, 4, 6 and 8" tray depths.

4.06 Dimension tolerances will be per CSA/NEMA.

4.07 Cable tray must have integral connection between side rails and rungs consisting of nonmetallic mechanical fasteners and adhesive bonding.

Nonmetallic - Cable tray
Straight lengths

Applications

Nonmetallic cable tray systems
Nonmetallic cable tray systems have been tested and proven in the harsh environment of the offshore oil and gas industry – subject to the corrosive conditions inherent in petroleum products, plus the daily punishment of exposure to wind, weather and saltwater.

Nonmetallic cable tray systems have stood up to these challenges.

Selection guide

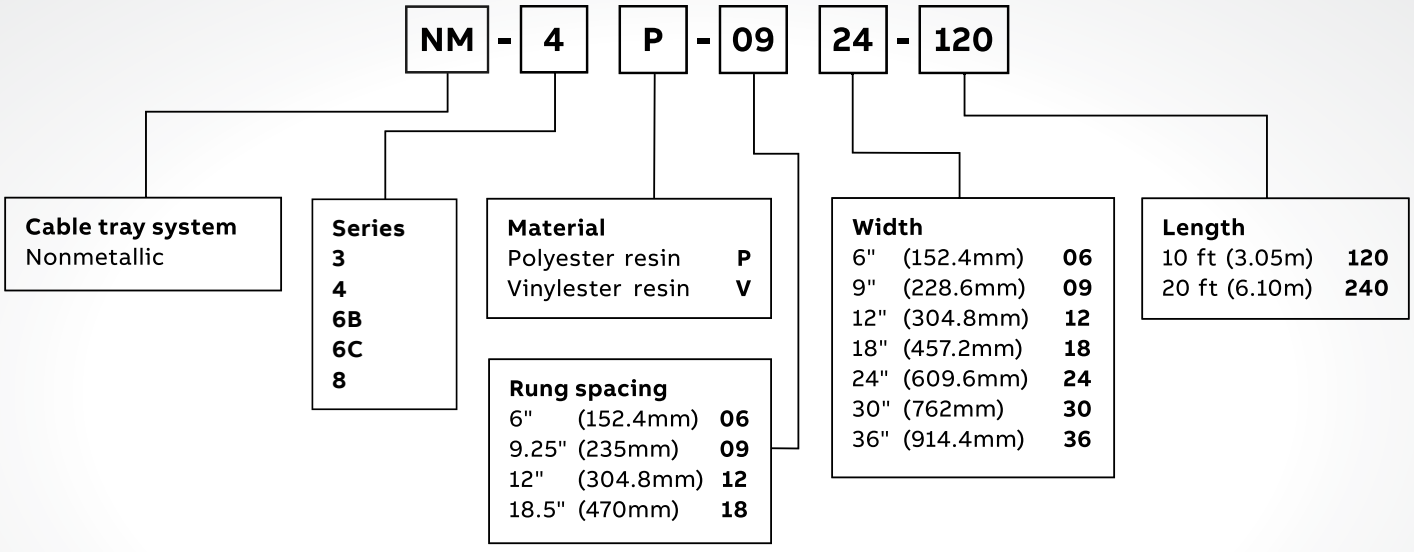
1. Nonmetallic cable tray system.
2. Select the correct T&B® series cable tray using the load data for straight sections found on pages 324-325.
3. Select the resin required. Refer to corrosion guide on page 323 of the technical information section for the effect of environmental conditions on the desired material. For the effective temperature range, see page 326 of the same section.
4. Select the rung spacing required to properly support cables in tray.
5 Select the desired width in inches.
6 Select the straight section length in inches.

Straight fittings number selection

To order
To order a straight section of cable tray, select the appropriate size and material from the charts below and place those symbols in the sequence shown to form the complete catalog number.

Example:
- NM-4P0924-120 for
- 4" (101.6mm) side rail, polyester resin
- 9" (228.6mm) rung spacing
- 24" (609.6mm) wide, 120" (10 ft (36.58m)) length

NOTE: One pair of nonmetallic splice plates with SS6 hardware included with each length.
For other types of splice plates, see pages 354-357.



Nonmetallic - Cable tray straight lengths

3" (76.2mm) Straight sections - Series 3

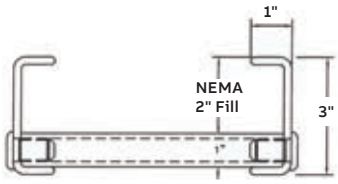
Splice plates
One pair of nonmetallic splice plates with SS6 (316 stainless steel) hardware included.

Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

Loading
- CSA load class: E/6M
- NEMA 8C

3" (76.2mm) Straight sections – Series 3: Loading - NEMA 8C

	Series		Safety Factor	Support span ft (m) 6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)
Side rail height: 3" (76.2mm) (2" (50.8mm) loading depth)	3	**Load (lb)/ft)**	1.5	257	145	93	64	47
		Load (kg)/m)		382.46	215.78	138.4	95.24	69.94
		Deflection (in)		1.5	2.7	4.2	6.1	8.2
		Deflection (mm)		38.1	68.58	106.68	154.94	208.28
		K factor		0.006	0.019	0.046	0.095	0.175



Straight section number selection

NM - **3** **P** - **09** **24** - **120**

Cable tray system	
Nonmetallic	**NM**

Series	
3	

Material	
Polyester resin	**P**
Vinylester resin	**V**

Rung spacing		
6"	(152.4mm)	**06**
9.25"	(235mm)	**09**
12"	(304.8mm)	**12**
18.5"	(470mm)	**18**

Width		
6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**

Length	
10 ft (3.05m)	**120**
20 ft (6.10m)	**240**

Nonmetallic - Cable tray straight lengths

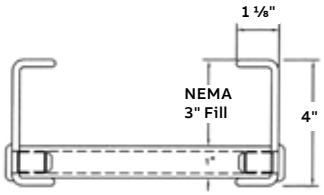
4" (101.6mm) Straight sections - Series 4

Splice plates
One pair of nonmetallic splice plates with SS6 (316 stainless steel) hardware included.

Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

Loading
- CSA load class: E/6M
- NEMA 12C

4" (101.6mm) Straight sections – Series 4: Loading - NEMA 12C

	Series		Safety Factor	Support span ft (m) 10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)
Side rail height: 4" (101.6mm) (3" (76.2mm) loading depth) 	4	**Load (lb)/ft**	1.5	157	109	80	61	48
		Load (kg)/m		71.21	49.44	36.29	27.67	21.77
		Deflection (in)		2.6	3.7	5.0	6.5	8.2
		Deflection (mm)		66.04	93.98	127	165.1	208.28
		K factor		0.017	0.034	0.063	0.107	0.171

Straight section number selection

NM - 4 P - 09 24 - 120

Cable tray system
Nonmetallic **NM**

Series
4

Material
Polyester resin **P**
Vinylester resin **V**

Rung spacing
6" (152.4mm) **06**
9.25" (235mm) **09**
12" (304.8mm) **12**
18.5" (470mm) **18**

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**

Length
10 ft (3.05m) **120**
20 ft (6.10m) **240**

Nonmetallic - Cable tray straight lengths

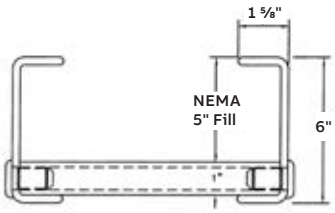
6" (152.4mm) Straight sections - Series 6B

Splice plates
One pair of nonmetallic splice plates with stainless hardware included.

Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

Loading
- CSA load class: E/6M
- NEMA 20B

6" (152.4mm) Straight sections – Series 6B: Loading - NEMA 20B

	Series		Safety Factor	Support span ft (m) 12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
Side rail height: 6" (152.4mm) (5" (127mm) loading depth) 	6B	**Load (lb)/ft**	1.5	254	186	143	113	91
		Load (kg)/m		115.21	84.37	64.86	51.26	41.28
		Deflection (in)		2.2	3.0	3.9	5.0	6.1
		Deflection (mm)		55.88	76.2	99.06	127	154.94
		K factor		0.009	0.016	0.027	0.044	0.067

Straight section number selection

NM - **6** **P** - **09** **24** - **120**

Cable tray system
Nonmetallic **NM**

Series
6B

Material
Polyester resin **P**
Vinylester resin **V**

Rung spacing
6" (152.4mm) **06**
9.25" (235mm) **09**
12" (304.8mm) **12**
18.5" (470mm) **18**

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**

Length
10 ft (3.05m) **120**
20 ft (6.10m) **240**

Nonmetallic - Cable tray straight lengths

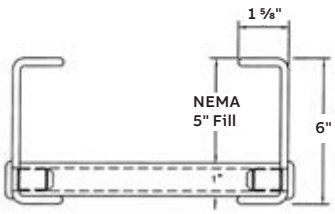
6" (152.4mm) Straight sections - Series 6C

Splice plates
One pair of nonmetallic splice plates with SS6 (316 stainless steel) hardware included.

Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

Loading
- CSA load class: E/6M
- NEMA 20C

6" (152.4mm) Straight sections – Series H6C: Loading - NEMA 20C-S.F.2.0

	Series		Safety Factor	Support span ft (m) 12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
Side rail height: 6" (152.4mm) (5" (127mm) loading depth) 	6C	**Load (lb)/ft**	1.5	386	283	217	171	139
		Load (kg)/m		175.09	128.37	98.43	77.56	63.05
		Deflection (in)		3.1	4.2	5.5	6.9	8.6
		Deflection (mm)		78.74	106.68	139.7	175.26	218.44
		K factor		0.008	0.015	0.025	0.040	0.062
		Load (lb)/ft	2.0	289	212	163	129	104
		Load (kg)/m		131.09	96.16	73.94	58.51	47.17
		Deflection (in)		2.3	3.1	4.1	5.2	6.4
		Deflection (mm)		58.42	78.74	101.6	132.08	162.56
		K factor		0.008	0.015	0.025	0.040	0.062

Straight section number selection

NM - H6C P - 09 24 - 120

Cable tray system	Series	Material	Rung spacing	Width	Length
Nonmetallic **NM**	**6C**	Polyester resin **P** Vinylester resin **V**	6" (152.4mm) **06** 9.25" (235mm) **09** 12" (304.8mm) **12** 18.5" (470mm) **18**	6" (152.4mm) **06** 9" (228.6mm) **09** 12" (304.8mm) **12** 18" (457.2mm) **18** 24" (609.6mm) **24** 30" (762mm) **30** 36" (914.4mm) **36**	10 ft (3.05m) **120** 20 ft (6.10m) **240**

Nonmetallic - Cable tray straight lengths

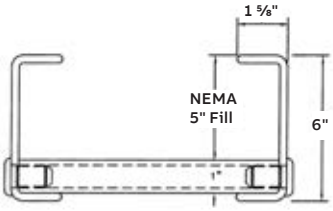
8" (203.2mm) Straight sections - Series 8

Splice plates
One pair of nonmetallic splice plates with SS6 (316 stainless steel) hardware included.

Deflection factor: To calculate deflection at any span length for lighter loads than listed, multiply the load by the K factor. When trays are used in continuous spans, the deflection of the tray is reduced by as much as 50%.

Loading
- CSA load class: E/6M
- NEMA 20C

8" (203.2mm) Straight sections – Series 8: Loading - NEMA 20C

	Series		Safety Factor	Support span ft (m) 14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)	22' (6.10m)
Side rail height: 6" (152.4mm) (5" (127mm) loading depth) 	8	**Load (lb)/ft**	1.5	358	358	353	297	253
		Load (kg)/m		532.76	532.76	525.32	441.99	376.5
		Deflection (in)		2.3	4.0	6.3	8.1	10.1
		Deflection (mm)		58.42	101.6	160.02	205.74	256.54
		K factor		0.006	0.011	0.018	0.027	0.040

Straight section number selection

NM - **8** **P** - **09** **24** - **120**

Cable tray system	
Nonmetallic	**NM**

Series	
8	

Material	
Polyester resin	**P**
Vinylester resin	**V**

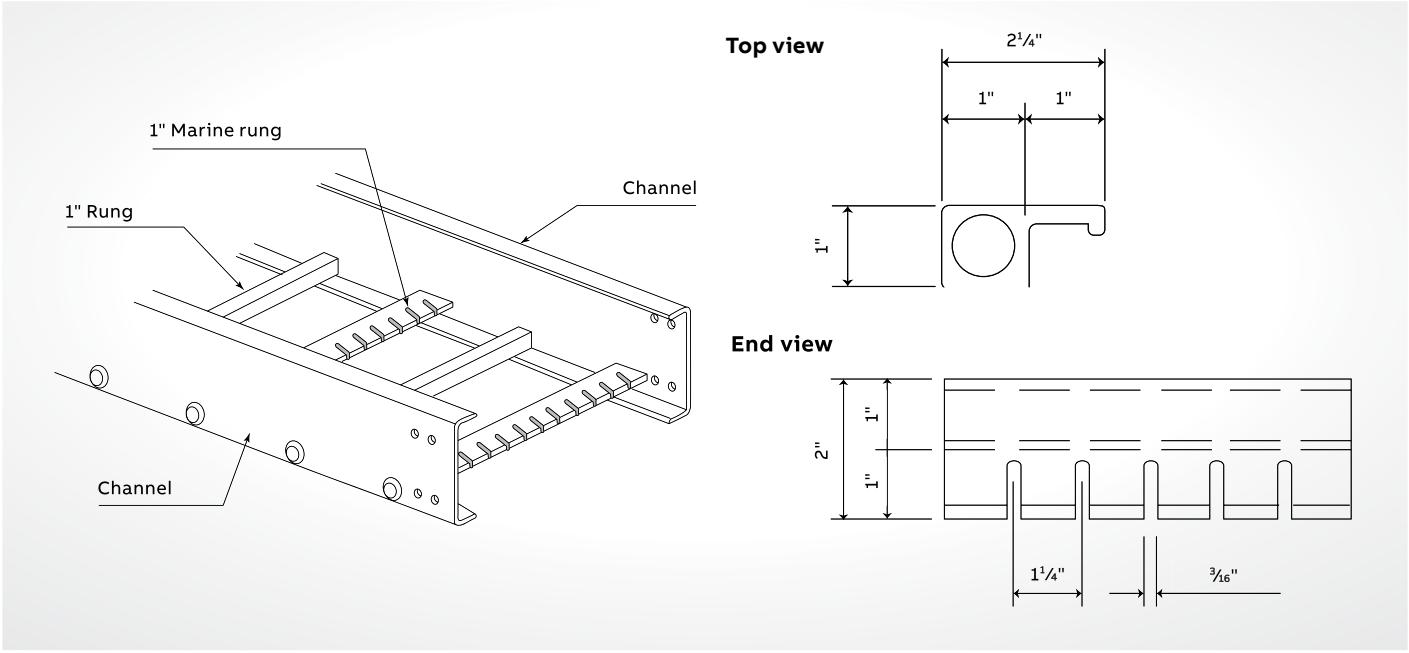
Rung spacing		
6"	(152.4mm)	**06**
9.25"	(235mm)	**09**
12"	(304.8mm)	**12**
18.5"	(470mm)	**18**

Width		
6"	(152.4mm)	**06**
9"	(228.6mm)	**09**
12"	(304.8mm)	**12**
18"	(457.2mm)	**18**
24"	(609.6mm)	**24**
30"	(762mm)	**30**
36"	(914.4mm)	**36**

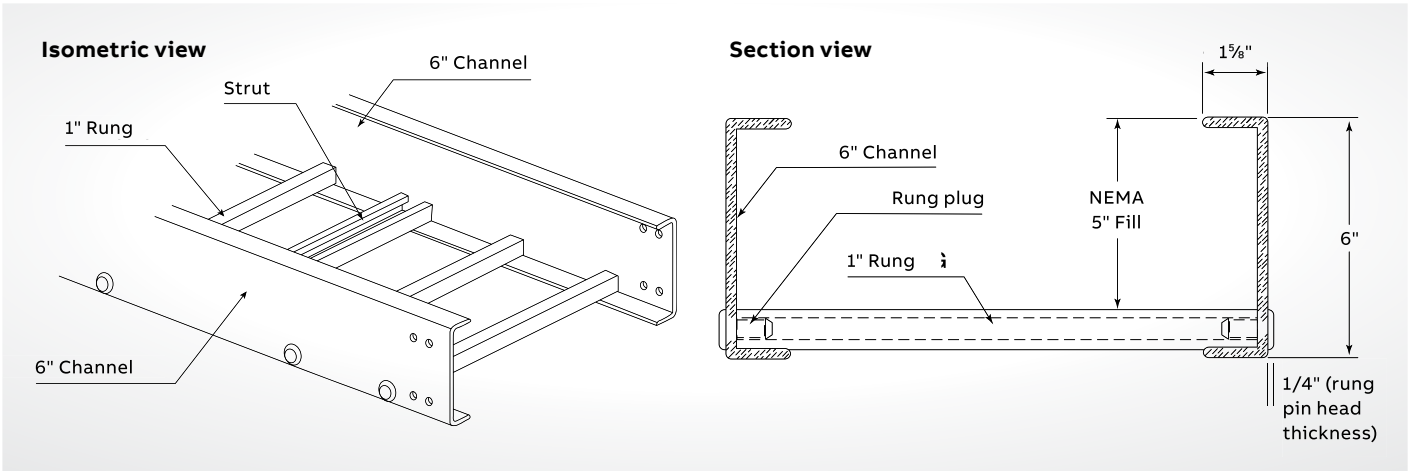
Length	
10 ft (3.05m)	**120**
20 ft (6.10m)	**240**

Nonmetallic - Cable tray straight lengths

Marine rung & strut rung cable tray



01



02

01 Marine rung cable tray

02 Strut rung cable tray

Marine rung cable tray

- Meets U.S. Coast Guard requirements
- **Catalog Number:** Add MR after rung spacing
- **Example:** NM-4P-09MR-24-120
- Call your T&B representative for documentation

Strut rung cable tray

- **Catalog Number:** Add SR after rung spacing
- Call your T&B representative for documentation


DANGER

Nonmetallic - Cable tray Fittings

NOTE: Splice plates NOT included. See pages 254 - 357 for type of splice plates available. Covers are available. Please consult your T&B representative.

Selection guide

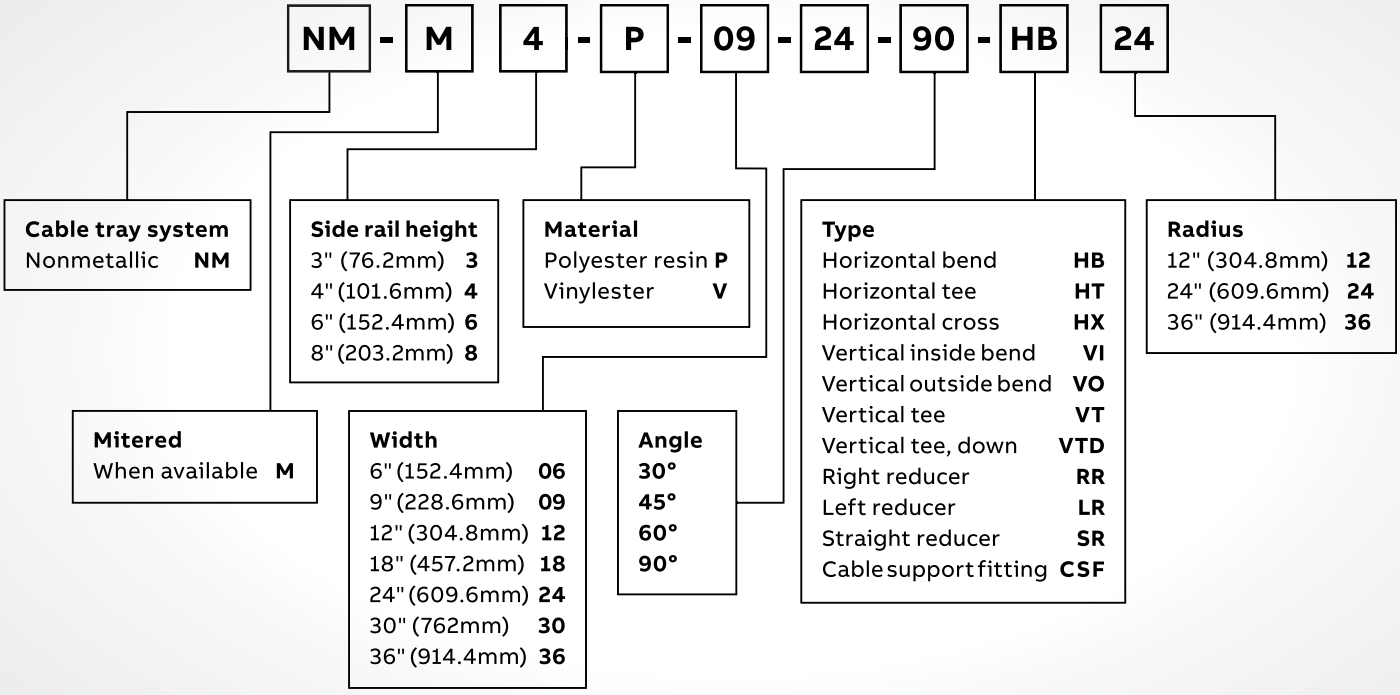
1. Nonmetallic cable tray system.
2. For mitered fittings when available.
3. Select height of fitting required for application. This should match tray series and height selection.
4. Select the resin required. Refer to corrosion guide on pages 323 of the technical information section for the effect of environmental conditions on the desired material; for the effective temperature range, see page 326 of the same section.
5. Select the desired width in inches.
6. Angle of fitting required for application.
7. Type of fitting required for application. See choices below.
8. Radius required for application. This would be determined by allowable radius of cables being installed. Standard radius is 24" (609.6mm).

Straight fittings number selection

To order
To order a straight section of cable tray, select the appropriate size and material from the charts below and place those symbols in the sequence shown to form the complete catalog number.

Example:
NM-4P0924-120
- 4" (101.6mm) side rail, polyester resin
- 9" (228.6mm) rung spacing
- 24" (609.6mm) wide, 120" (10 ft.) length

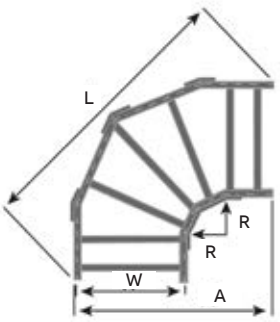
NOTE: One pair of nonmetallic splice plates with SS6 hardware included with each length.
For other types of splice plates, see pages 354-357.



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 90° Horizontal bend fittings

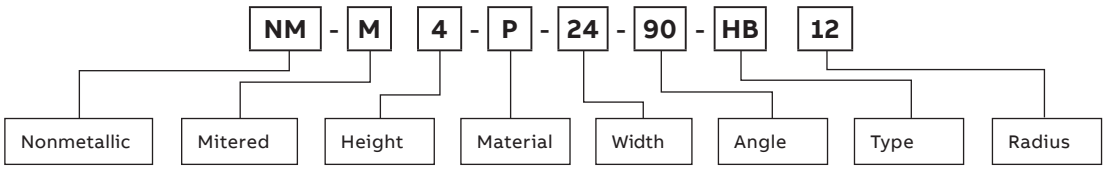
90° Horizontal bend



Bend radius (R)		Tray width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	L (in)	L (mm)
12	304.8	6	152.4	NM-M(*)-(Matl)-06-90HB12	33⅝	854	47½	1207
		9	228.6	NM-M(*)-(Matl)-09-90HB12	36⅝	930	51¾	1314
		12	304.8	NM-M(*)-(Matl)-12-90HB12	39⅝	1006	56	1422
		18	457.2	NM-M(*)-(Matl)-18-90HB12	45⅝	1159	64½	1638
		24	609.6	NM-M(*)-(Matl)-24-90HB12	51⅝	1311	73	1854
		30	762	NM-M(*)-(Matl)-30-90HB12	57⅝	1464	81½	2070
		36	914.4	NM-M(*)-(Matl)-36-90HB12	63⅝	1616	90	2286
24	609.6	6	152.4	NM-M(*)-(Matl)-06-90HB24	45⅝	1159	64½	1638
		9	228.6	NM-M(*)-(Matl)-09-90HB24	48⅝	1235	68¾	1746
		12	304.8	NM-M(*)-(Matl)-12-90HB24	51⅝	1311	73	1854
		18	457.2	NM-M(*)-(Matl)-18-90HB24	57⅝	1464	81½	2070
		24	609.6	NM-M(*)-(Matl)-24-90HB24	63⅝	1616	90	2286
		30	762	NM-M(*)-(Matl)-30-90HB24	69⅝	1768	98½	2502
		36	914.4	NM-M(*)-(Matl)-36-90HB24	75⅝	1921	107	2718
36	914.4	6	152.4	NM-M(*)-(Matl)-06-90HB36	57⅝	1464	81½	2070
		9	228.6	NM-M(*)-(Matl)-09-90HB36	60⅝	1540	85¾	2178
		12	304.8	NM-M(*)-(Matl)-12-90HB36	63⅝	1616	90	2286
		18	457.2	NM-M(*)-(Matl)-18-90HB36	69⅝	1768	98½	2502
		24	609.6	NM-M(*)-(Matl)-24-90HB36	75⅝	1921	107	2718
		30	762	NM-M(*)-(Matl)-30-90HB36	81⅝	2073	115⅝	2931
		36	914.4	NM-M(*)-(Matl)-36-90HB36	87⅝	2226	123⅞	3146

(*) Side Rail Height. One pair of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

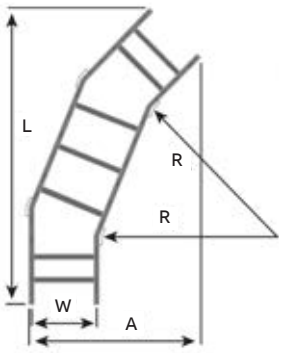
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 45° Horizontal bend fittings

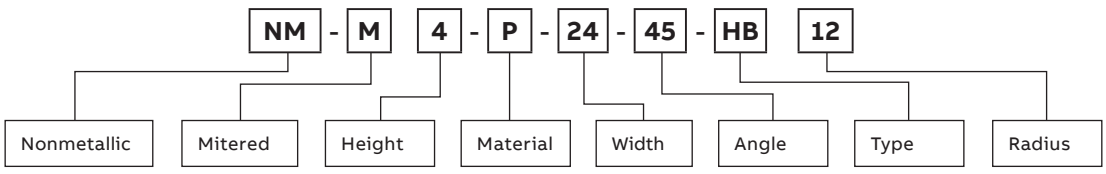
45° Horizontal bend



Bend radius (R)		Tray width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	L (in)	L (mm)
12	304.8	6	152.4	NM-M(*)-(Matl)-06-45HB12	20 11/16	525	38 7/8	987
		9	228.6	NM-M(*)-(Matl)-09-45HB12	23 11/16	602	41	1041
		12	304.8	NM-M(*)-(Matl)-12-45HB12	26 11/16	678	43 1/8	1095
		18	457.2	NM-M(*)-(Matl)-18-45HB12	32 11/16	830	47 3/8	1203
		24	609.6	NM-M(*)-(Matl)-24-45HB12	38 11/16	983	51 5/8	1311
		30	762	NM-M(*)-(Matl)-30-45HB12	44 11/16	1135	55 7/8	1419
		36	914.4	NM-M(*)-(Matl)-36-45HB12	50 11/16	1287	60 1/8	1527
24	609.6	6	152.4	NM-M(*)-(Matl)-06-45HB24	24 1/4	616	47 3/8	1203
		9	228.6	NM-M(*)-(Matl)-09-45HB24	27 1/4	692	49 1/2	1257
		12	304.8	NM-M(*)-(Matl)-12-45HB24	30 1/4	768	51 5/8	1311
		18	457.2	NM-M(*)-(Matl)-18-45HB24	36 1/4	921	55 7/8	1419
		24	609.6	NM-M(*)-(Matl)-24-45HB24	42 1/4	1073	60 1/8	1527
		30	762	NM-M(*)-(Matl)-30-45HB24	48 1/4	1226	64 3/8	1635
		36	914.4	NM-M(*)-(Matl)-36-45HB24	54 1/4	1378	68 5/8	1743
36	914.4	6	152.4	NM-M(*)-(Matl)-06-45HB36	27 3/4	705	55 7/8	1419
		9	228.6	NM-M(*)-(Matl)-09-45HB36	30 3/4	781	58	1473
		12	304.8	NM-M(*)-(Matl)-12-45HB36	33 3/4	857	60 1/8	1527
		18	457.2	NM-M(*)-(Matl)-18-45HB36	39 3/4	1010	64 3/8	1635
		24	609.6	NM-M(*)-(Matl)-24-45HB36	45 3/4	1162	68 5/8	1743
		30	762	NM-M(*)-(Matl)-30-45HB36	51 3/4	1314	72 13/16	1846
		36	914.4	NM-M(*)-(Matl)-36-45HB36	57 3/4	1467	77 1/16	1957

(*) Side Rail Height. One pair of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

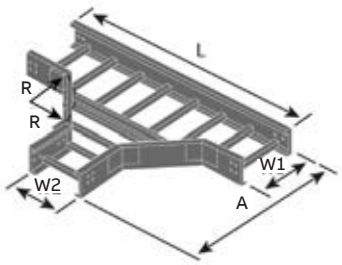
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal tee fittings

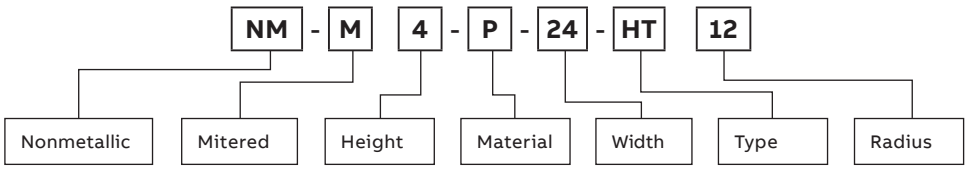
Horizontal tee



Bend radius (R)		Tray width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	L (in)	L (mm)
12	304.8	6	152.4	NM-M(*)-(Matl)-06-HT12	30⅝	780	55½	1410
		9	228.6	NM-M(*)-(Matl)-09-HT12	33⅝	850	55½	1410
		12	304.8	NM-M(*)-(Matl)-12-HT12	36⅝	930	55½	1410
		18	457.2	NM-M(*)-(Matl)-18-HT12	42⅝	1080	64¾	1640
		24	609.6	NM-M(*)-(Matl)-24-HT12	48⅝	1240	74	1880
		30	762	NM-M(*)-(Matl)-30-HT12	54⅝	1390	74	1880
		36	914.4	NM-M(*)-(Matl)-36-HT12	60⅝	1540	83¼	2110
24	609.6	6	152.4	NM-M(*)-(Matl)-06-HT24	42⅝	1080	74	1880
		9	228.6	NM-M(*)-(Matl)-09-HT24	45⅝	1160	83¼	2110
		12	304.8	NM-M(*)-(Matl)-12-HT24	48⅝	1240	83¼	2110
		18	457.2	NM-M(*)-(Matl)-18-HT24	54⅝	1390	92½	2350
		24	609.6	NM-M(*)-(Matl)-24-HT24	60⅝	1540	92½	2350
		30	762	NM-M(*)-(Matl)-30-HT24	66⅝	1690	101¾	2580
		36	914.4	NM-M(*)-(Matl)-36-HT24	72⅝	1840	111	2820
36	914.4	6	152.4	NM-M(*)-(Matl)-06-HT36	54⅝	1390	101¾	2580
		9	228.6	NM-M(*)-(Matl)-09-HT36	57⅝	1460	101¾	2580
		12	304.8	NM-M(*)-(Matl)-12-HT36	60⅝	1540	111	2820
		18	457.2	NM-M(*)-(Matl)-18-HT36	66⅝	1690	111	2820
		24	609.6	NM-M(*)-(Matl)-24-HT36	72⅝	1840	120¼	3050
		30	762	NM-M(*)-(Matl)-30-HT36	78⅝	2000	129½	3290
		36	914.4	NM-M(*)-(Matl)-36-HT36	84⅝	2150	129½	3290

(*) Side Rail Height. Two pairs of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&T representative for availaTility of molded ittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

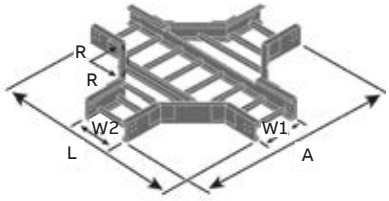
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal cross fittings

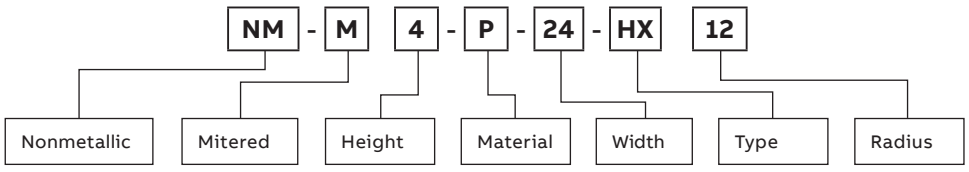
Horizontal cross



Bend radius (R)		Tray width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	L (in)	L (mm)
12	304.8	6	152.4	NM-M(*)-(Matl)-06-HX12	54¾	1390	55½	1410
		9	228.6	NM-M(*)-(Matl)-09-HX12	57¾	1470	55½	1410
		12	304.8	NM-M(*)-(Matl)-12-HX12	60¾	1540	55½	1410
		18	457.2	NM-M(*)-(Matl)-18-HX12	66¾	1700	64¾	1640
		24	609.6	NM-M(*)-(Matl)-24-HX12	72¾	1850	74	1880
		30	762	NM-M(*)-(Matl)-30-HX12	78¾	2000	74	1880
		36	914.4	NM-M(*)-(Matl)-36-HX12	84¾	2150	83¼	2110
24	609.6	6	152.4	NM-M(*)-(Matl)-06-HX24	78¾	2000	74	1880
		9	228.6	NM-M(*)-(Matl)-09-HX24	81¾	2080	83¼	2110
		12	304.8	NM-M(*)-(Matl)-12-HX24	84¾	2150	83¼	2110
		18	457.2	NM-M(*)-(Matl)-18-HX24	90¾	2310	92½	2350
		24	609.6	NM-M(*)-(Matl)-24-HX24	96¾	2460	92½	2350
		30	762	NM-M(*)-(Matl)-30-HX24	102¾	2610	101¾	2580
		36	914.4	NM-M(*)-(Matl)-36-HX24	108¾	2760	111	2820
36	914.4	6	152.4	NM-M(*)-(Matl)-06-HX36	102¾	2610	101¾	2580
		9	228.6	NM-M(*)-(Matl)-09-HX36	105¾	2690	101¾	2580
		12	304.8	NM-M(*)-(Matl)-12-HX36	108¾	2760	111	2820
		18	457.2	NM-M(*)-(Matl)-18-HX36	114¾	2910	111	2820
		24	609.6	NM-M(*)-(Matl)-24-HX36	120¾	3070	120¼	3050
		30	762	NM-M(*)-(Matl)-30-HX36	126¾	3220	129½	3290
		36	914.4	NM-M(*)-(Matl)-36-HX36	132¾	3370	129½	3290

(*) Side Rail Height. Three pairs of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal reducer fittings

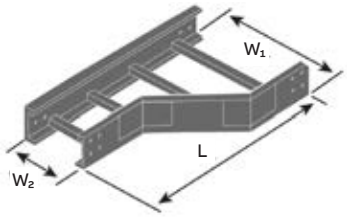
Horizontal reducer - 4" (101.6mm)

Tray widths W1 (in)	W1 (mm)	W2 (in)	W2 (mm)	Left-hand reducer Cat. No.	Dim. A (in)	Dim. L (mm)	Straight reducer Cat. No.	Dim. A (in)	Dim. L (mm)	Right-hand reducer Cat. No.	Dim. A (in)	Dim. L (mm)
9	228.6	6	152.4	NM-M(*)-(Matl)-09-LR06	27¾	705	NM-M(*)-(Matl)-09-SR06	26⅜	670	NM-M(*)-(Matl)-09-RR06	27¾	705
12	304.8	6	152.4	NM-M(*)-(Matl)-12-LR06	37	940	NM-M(*)-(Matl)-12-SR06	26¾	679	NM-M(*)-(Matl)-12-RR06	37	940
		9	228.6	NM-M(*)-(Matl)-12-LR09	27¾	705	NM-M(*)-(Matl)-12-SR09	26⅜	670	NM-M(*)-(Matl)-12-RR09	27¾	705
18	457.2	6	152.4	NM-M(*)-(Matl)-18-LR06	37	940	NM-M(*)-(Matl)-18-SR06	34½	876	NM-M(*)-(Matl)-18-RR06	37	940
		9	228.6	NM-M(*)-(Matl)-18-LR09	37	940	NM-M(*)-(Matl)-18-SR09	33	838	NM-M(*)-(Matl)-18-RR09	37	940
		12	304.8	NM-M(*)-(Matl)-18-LR12	27¾	705	NM-M(*)-(Matl)-18-SR12	26¾	679	NM-M(*)-(Matl)-18-RR12	27¾	705
24	609.6	6	152.4	NM-M(*)-(Matl)-24-LR06	46¼	1175	NM-M(*)-(Matl)-24-SR06	37½	953	NM-M(*)-(Matl)-24-RR06	46¼	1175
		9	228.6	NM-M(*)-(Matl)-24-LR09	37	940	NM-M(*)-(Matl)-24-SR09	36	914	NM-M(*)-(Matl)-24-RR09	37	940
		12	304.8	NM-M(*)-(Matl)-24-LR12	37	940	NM-M(*)-(Matl)-24-SR12	36	914	NM-M(*)-(Matl)-24-RR12	37	940
		18	457.2	NM-M(*)-(Matl)-24-LR18	27¾	705	NM-M(*)-(Matl)-24-SR18	26¾	679	NM-M(*)-(Matl)-24-RR18	27¾	705
30	762	6	152.4	NM-M(*)-(Matl)-30-LR06	46¼	1175	NM-M(*)-(Matl)-30-SR06	40½	1029	NM-M(*)-(Matl)-24-RR06	46¼	1175
		9	228.6	NM-M(*)-(Matl)-30-LR09	46¼	1175	NM-M(*)-(Matl)-30-SR09	39	991	NM-M(*)-(Matl)-24-RR09	46¼	1175
		12	304.8	NM-M(*)-(Matl)-30-LR12	37	940	NM-M(*)-(Matl)-30-SR12	37½	953	NM-M(*)-(Matl)-24-RR12	37	940
		18	457.2	NM-M(*)-(Matl)-30-LR18	37	940	NM-M(*)-(Matl)-30-SR18	35¾	908	NM-M(*)-(Matl)-24-RR18	37	940
		24	152.4	NM-M(*)-(Matl)-30-LR24	27¾	705	NM-M(*)-(Matl)-30-SR24	26¾	679	NM-M(*)-(Matl)-18-RR24	27¾	705
36	914.4	6	152.4	NM-M(*)-(Matl)-36-LR06	55½	1410	NM-M(*)-(Matl)-36-SR06	43½	1105	NM-M(*)-(Matl)-36-RR06	55½	1410
		9	228.6	NM-M(*)-(Matl)-36-LR09	46¼	1175	NM-M(*)-(Matl)-36-SR09	42	1067	NM-M(*)-(Matl)-36-RR09	46¼	1175
		12	304.8	NM-M(*)-(Matl)-36-LR12	46¼	1175	NM-M(*)-(Matl)-36-SR12	40½	1029	NM-M(*)-(Matl)-36-RR12	46¼	1175
		18	457.2	NM-M(*)-(Matl)-36-LR18	37	940	NM-M(*)-(Matl)-36-SR18	37½	953	NM-M(*)-(Matl)-36-RR18	37	940
		24	609.6	NM-M(*)-(Matl)-36-LR24	37	940	NM-M(*)-(Matl)-36-SR24	35¾	908	NM-M(*)-(Matl)-36-RR24	37	940
		30	762	NM-M(*)-(Matl)-36-LR30	27¾	705	NM-M(*)-(Matl)-36-SR30	26¾	679	NM-M(*)-(Matl)-36-RR30	27¾	705

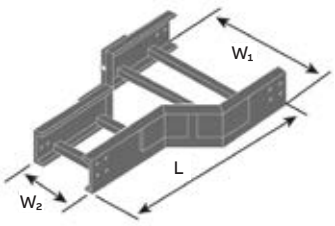
(*) Side Rail Height. One pair of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your T&B representative.
Consult your T&B representative for availability of molded fittings. Standard rung spacing for fittings is 9¼" nominal (235mm).
For other types of splice plates, see pages 354 - 357.

Dimensions (4" & 6")

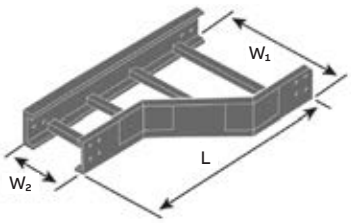
Left-hand reducer



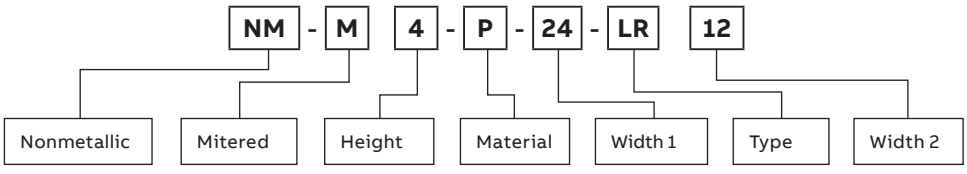
Straight reducer



Right hand reducer



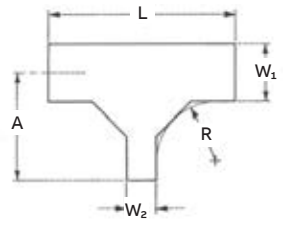
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal reducing tee fittings

Horizontal reducing tee – 12" (304.8mm) radius



Tray width (W1)		Tray width (W2)			12" (304.8mm) Radius			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	L (in)	L (mm)
6	228.6	6	152.4	NM-M(*)-(Matl)-09-06-HT12	33⅝	2813.05	55½	2197.10
9	304.8	6	152.4	NM-M(*)-(Matl)-12-06-HT12	26⅝	1174.75	55½	2197.10
		9	228.6	NM-M(*)-(Matl)-12-09-HT12	26⅝	1174.75	55½	2273.30
12	457.2	6	152.4	NM-M(*)-(Matl)-18-06-HT12	42⅝	3117.85	55½	2197.10
		9	228.6	NM-M(*)-(Matl)-18-09-HT12	42⅝	1250.95	55½	2273.30
		12	304.8	NM-M(*)-(Matl)-18-12-HT12	42⅝	1250.95	55½	2349.50

(*) Side Rail Height. Two pairs of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

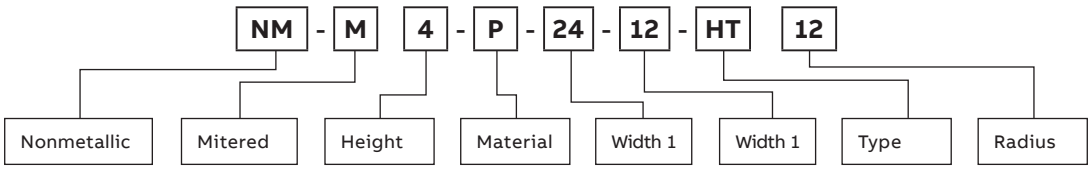
Horizontal reducing tee – 24" (609.6mm) & 36" (914.4mm) radius

Tray width (W1)		Tray width (W2)		Cat. No.	24" (609.6mm) Radius				36" (914.4mm) Radius			
(in)	(mm)	(in)	(mm)	(**) Insert radius 24" or 36"	A (in)	A (mm)	L (in)	L (mm)	A (in)	A (mm)	L (in)	L (mm)
6	228.6	6	152.4	NM-M(*)-(Matl)-09-06-HT(**)	42⅝	2813.05	74	2197.10	54⅝	908.05	101¾	1739.90
9	304.8	6	152.4	NM-M(*)-(Matl)-12-06-HT(**)	48⅝	1174.75	74	2197.10	60⅝	946.15	101¾	1739.90
		9	228.6	NM-M(*)-(Matl)-12-09-HT(**)	48⅝	1174.75	83¼	2273.30	60⅝	946.15	101¾	1816.10
12	457.2	6	152.4	NM-M(*)-(Matl)-18-06-HT(**)	54⅝	3117.85	74	2197.10	66⅝	1022.35	101¾	1739.90
		9	228.6	NM-M(*)-(Matl)-18-09-HT(**)	54⅝	1250.95	83¼	2273.30	66⅝	1022.35	101¾	1816.10
		12	304.8	NM-M(*)-(Matl)-18-12-HT(**)	54⅝	1250.95	83¼	2349.50	66⅝	1022.35	111	1892.30

(*) Side Rail Height. (**) NOTE: Insert radius, 24" (609.6mm) or 36" (914.4mm). Two pairs of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

Sample mitered fitting

Fitting number selection



Nonmetallic - Cable tray fittings

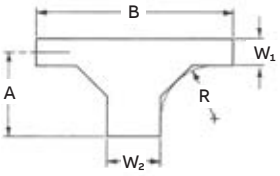
3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal expanding tee fittings

Horizontal expanding tee – 12" (304.8mm) & 24" (609.6mm) radius

Tray width (W1)		Tray width (W2)		Cat. No.	12" (304.8mm) Radius				24" (609.6mm) Radius			
(in)	(mm)	(in)	(mm)	(**) Insert radius 12" or 24"	A (in)	A (mm)	B (in)	B (mm)	A (in)	A (mm)	B (in)	B (mm)
9	228.6	12	304.8	NM-M(*)-(Matl)-09-12-HT(**)	33⅝	854	55½	1410	45⅝	1159	83¼	2115
		18	457.2	NM-M(*)-(Matl)-09-18-HT(**)	33⅝	854	64¾	1645	45⅝	1159	92½	2350
		24	609.6	NM-M(*)-(Matl)-09-24-HT(**)	33⅝	854	74	1880	45⅝	1159	92½	2350
		30	762	NM-M(*)-(Matl)-09-30-HT(**)	33⅝	854	74	1880	45⅝	1159	101¾	2584
		36	914.4	NM-M(*)-(Matl)-09-36-HT(**)	33⅝	854	83¼	2115	45⅝	1159	111	2819
12	304.8	18	457.2	NM-M(*)-(Matl)-12-18-HT(**)	26⅝	676	64¾	1645	48⅝	1235	92½	2350
		24	609.6	NM-M(*)-(Matl)-12-24-HT(**)	26⅝	676	74	1880	48⅝	1235	92½	2350
		30	762	NM-M(*)-(Matl)-12-30-HT(**)	26⅝	676	74	1880	48⅝	1235	101¾	2584
		36	914.4	NM-M(*)-(Matl)-12-36-HT(**)	26⅝	676	83¼	2115	48⅝	1235	111	2819
18	457.2	24	609.6	NM-M(*)-(Matl)-18-24-HT(**)	42⅝	1083	74	1880	54⅝	1387	92½	2350
		30	762	NM-M(*)-(Matl)-18-30-HT(**)	42⅝	1083	74	1880	54⅝	1387	101¾	2584
		36	914.4	NM-M(*)-(Matl)-18-36-HT(**)	42⅝	1083	83¼	2115	54⅝	1387	111	2819
24	609.6	30	762	NM-M(*)-(Matl)-24-30-HT(**)	48⅝	1235	74	1880	60⅝	1540	101¾	2584
		36	914.4	NM-M(*)-(Matl)-24-36-HT(**)	48⅝	1235	83¼	2115	60⅝	1540	111	2819
30	762	36	914.4	NM-M(*)-(Matl)-30-36-HT(**)	54⅝	1387	83¼	2115	66⅝	1692	111	2819

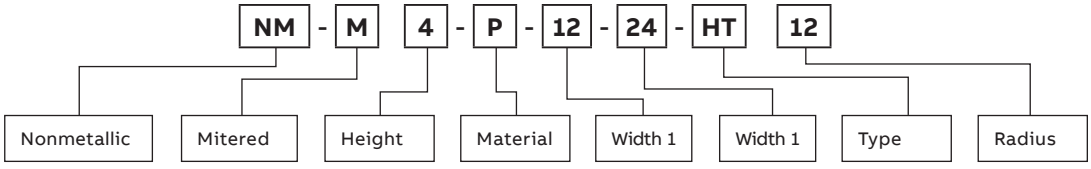
(*) Side Rail Height. * NOTE: Insert radius, 12" (304.8mm) or 24" (609.6mm). Two pairs of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9" (228.6mm). For other types of splice plates, see pages 354 - 357.

Dimensions



Sample mitered fitting

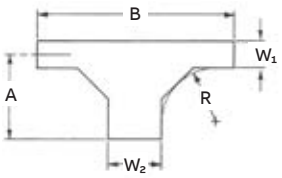
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal expanding tee fittings

Horizontal expanding tee – 36" (914.4mm) radius

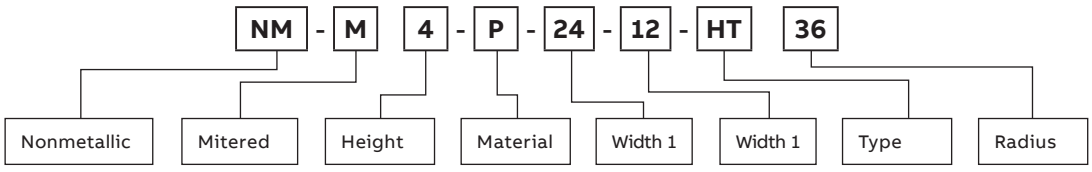


Tray width (W1)		Tray width (W2)			36" (914.4mm) Radius			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	B (in)	B (mm)
9	228.6	12	304.8	NM-M(*)-(Matl)-09-12-HT36	57⅝	1464	111	2819
		18	457.2	NM-M(*)-(Matl)-09-18-HT36	57⅝	1464	111	2819
		24	609.6	NM-M(*)-(Matl)-09-24-HT36	57⅝	1464	120¼	3054
		30	609.6	NM-M(*)-(Matl)-09-30-HT36	57⅝	1464	129½	3289
		36	762	NM-M(*)-(Matl)-09-36-HT36	57⅝	1464	129½	3289
12	304.8	18	457.2	NM-M(*)-(Matl)-12-18-HT36	60⅝	1540	111	2819
		24	609.6	NM-M(*)-(Matl)-12-24-HT36	60⅝	1540	120¼	3054
		30	609.6	NM-M(*)-(Matl)-12-30-HT36	60⅝	1540	129½	3289
		36	762	NM-M(*)-(Matl)-12-36-HT36	60⅝	1540	129½	3289
18	457.2	24	609.6	NM-M(*)-(Matl)-18-24-HT36	66⅝	1692	120¼	3054
		30	609.6	NM-M(*)-(Matl)-18-30-HT36	66⅝	1692	129½	3289
		36	762	NM-M(*)-(Matl)-18-36-HT36	66⅝	1692	129½	3289
24	609.6	30	609.6	NM-M(*)-(Matl)-24-30-HT36	72⅝	1845	129½	3289
		36	762	NM-M(*)-(Matl)-24-36-HT36	72⅝	1845	129½	3289
30	762	36	762	NM-M(*)-(Matl)-30-36-HT36	78⅝	1997	129½	3289

(*) Side Rail Height. Two pairs of stainless steel SS6 splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9" (228.6mm). For other types of splice plates, see pages 354 - 357.

Sample mitered fitting

Fitting number selection



Nonmetallic - Cable tray fittings

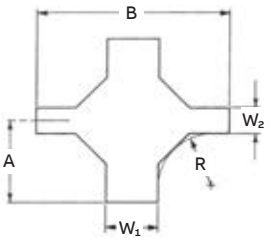
3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal expanding/ reducing cross fittings

Horizontal expanding/reducing cross – 12" (304.8mm) & 24" (609.6mm) radius

Tray width (W1)		Tray width (W2)		Cat. No.	12" (304.8mm) Radius				24" (609.6mm) Radius			
(in)	(mm)	(in)	(mm)	*Insert radius (12" or 24")	A (in)	A (mm)	B (in)	B (mm)	A (in)	A (mm)	B (in)	B (mm)
6	152.4	9	228.6	NM-M(*)-(Matl)-06-09-HX*	54¾	1391	55½	1410	78¾	2000	84¼	2140
		12	304.8	NM-M(*)-(Matl)-06-12-HX*	54¾	1391	55½	1410	78¾	4972	83¼	2115
		18	457.2	NM-M(*)-(Matl)-06-18-HX*	54¾	1391	64¾	1645	78¾	2000	92½	2350
		24	609.6	NM-M(*)-(Matl)-06-24-HX*	54¾	1391	74	1880	78¾	2000	92½	2350
		30	762	NM-M(*)-(Matl)-06-30-HX*	54¾	1391	74	1880	78¾	2000	101¾	2584
		36	914.4	NM-M(*)-(Matl)-06-36-HX*	54¾	1391	83¼	2115	78¾	2000	111	2819
9	228.6	12	304.8	NM-M(*)-(Matl)-09-12-HX*	57¾	1467	55½	1410	81¾	2076	83¼	2115
		18	457.2	NM-M(*)-(Matl)-09-18-HX*	57¾	1467	64¾	1645	81¾	2076	92½	2350
		24	609.6	NM-M(*)-(Matl)-09-24-HX*	57¾	1467	74	1880	81¾	2076	92½	2350
		30	762	NM-M(*)-(Matl)-09-30-HX*	57¾	1467	74	1880	81¾	2076	101¾	2584
		36	914.4	NM-M(*)-(Matl)-09-36-HX*	57¾	1467	83¼	2115	81¾	2076	111	2819
12	304.8	18	457.2	NM-M(*)-(Matl)-12-18-HX*	60¾	1543	64¾	1645	84¾	2153	92½	2350
		24	609.6	NM-M(*)-(Matl)-12-24-HX*	60¾	1543	74	1880	84¾	2153	92½	2350
		30	762	NM-M(*)-(Matl)-12-30-HX*	60¾	1543	74	1880	84¾	2153	101¾	2584
		36	914.4	NM-M(*)-(Matl)-12-36-HX*	60¾	1543	83¼	2115	84¾	2153	111	2819
18	457.2	24	609.6	NM-M(*)-(Matl)-18-24-HX*	66¾	1695	74	1880	90¾	2305	92½	2350
		30	762	NM-M(*)-(Matl)-18-30-HX*	66¾	1695	74	1880	90¾	2305	101¾	2584
		36	914.4	NM-M(*)-(Matl)-18-36-HX*	66¾	1695	83¼	2115	90¾	2305	111	2819
24	609.6	30	609.6	NM-M(*)-(Matl)-24-30-HX*	72¾	1848	74	1880	96¾	2457	101¾	2584
		36	914.4	NM-M(*)-(Matl)-24-36-HX*	72¾	1848	83¼	2115	96¾	2457	111	2819
30	762	36	914.4	NM-M(*)-(Matl)-30-36-HX*	78¾	2000	83¼	2115	102¾	2610	111	2819

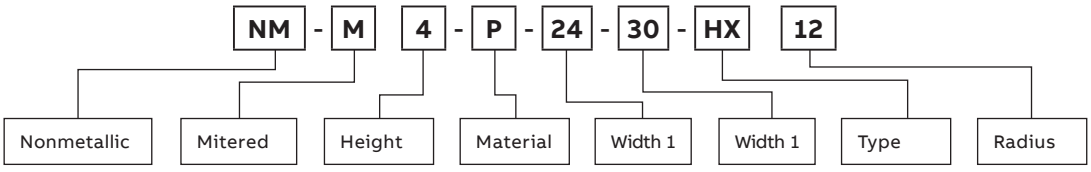
(*) Side Rail Height. * NOTE: Insert radius, 12" (304.8mm) or 24" (609.6mm). Three pairs of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

Dimensions



Sample mitered fitting

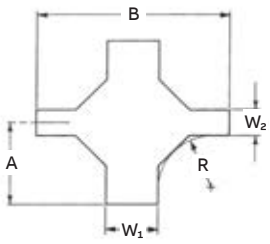
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Horizontal expanding/ reducing cross fittings

Horizontal expanding/reducing cross – 36" (914.4mm) radius

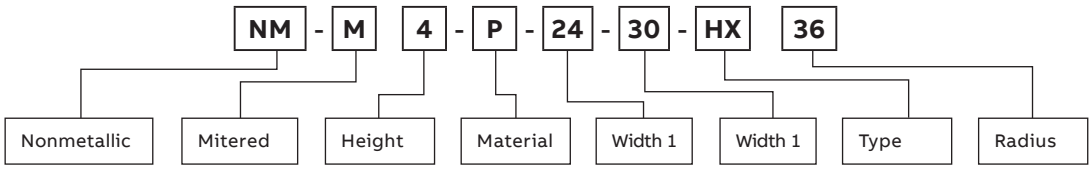


Tray width (W1)		Tray width (W2)			36" (914.4mm) Radius			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	B (in)	B (mm)
6	152.4	9	228.6	NM-M(*)-(Matl)-06-09-HX36	102¾	2610	101¾	2584
		12	304.8	NM-M(*)-(Matl)-06-12-HX36	102¾	2610	111	2819
		18	457.2	NM-M(*)-(Matl)-06-18-HX36	102¾	2610	111	2819
		24	609.6	NM-M(*)-(Matl)-06-24-HX36	102¾	2610	120¼	3054
		30	609.6	NM-M(*)-(Matl)-06-30-HX36	102¾	2610	129½	3289
		36	762	NM-M(*)-(Matl)-06-36-HX36	102¾	2610	129½	3289
9	228.6	12	304.8	NM-M(*)-(Matl)-09-12-HX36	105¾	2686	111	2819
		18	457.2	NM-M(*)-(Matl)-09-18-HX36	105¾	2686	111	2819
		24	609.6	NM-M(*)-(Matl)-09-24-HX36	105¾	2686	120¼	3054
		30	609.6	NM-M(*)-(Matl)-09-30-HX36	105¾	2686	129½	3289
		36	762	NM-M(*)-(Matl)-09-36-HX36	105¾	2686	129½	3289
12	304.8	18	457.2	NM-M(*)-(Matl)-12-18-HX36	108¾	2762	111	2819
		24	609.6	NM-M(*)-(Matl)-12-24-HX36	108¾	2762	120¼	3054
		30	609.6	NM-M(*)-(Matl)-12-30-HX36	108¾	2762	129½	3289
		36	762	NM-M(*)-(Matl)-12-36-HX36	108¾	2762	129½	3289
18	457.2	24	609.6	NM-M(*)-(Matl)-18-24-HX36	115¾	2940	120¼	3054
		30	609.6	NM-M(*)-(Matl)-18-30-HX36	115¾	2940	129½	3289
		36	762	NM-M(*)-(Matl)-18-36-HX36	115¾	2940	129½	3289
24	609.6	30	609.6	NM-M(*)-(Matl)-24-30-HX36	120¾	3067	129½	3289
		36	762	NM-M(*)-(Matl)-24-36-HX36	120¾	3067	129½	3289
30	762	36	762	NM-M(*)-(Matl)-30-36-HX36	126¾	3219	129½	3289

(*) Side Rail Height. Three pairs of fiberglass splice plates with SS6 hardware included. Dimensions for reference only; when critical, contact your T&B representative.
Consult your T&B representative for availability of molded fittings. Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

Sample mitered fitting

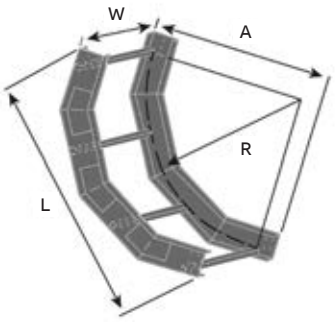
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 90° Vertical inside/ outside bend fittings

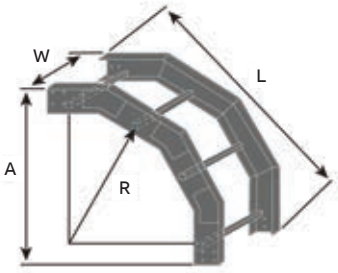
90° Vertical inside bend fittings



Bend radius (R)		Tray width			Vertical bend 90° Vertical inside bend			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	B (in)	B (mm)
12	304.8	4	101.6	NM-M(*)-(Matl)-04-90(**)12	20⅞	530	29½	749
		6	152.4	NM-M(*)-(Matl)-06-90(**)12	20⅞	530	29½	749
		8	203.2	NM-M(*)-(Matl)-08-90(**)12	20⅞	530	29½	749
24	609.6	4	101.6	NM-M(*)-(Matl)-04-90(**)24	32⅞	835	46½	1181
		6	152.4	NM-M(*)-(Matl)-06-90(**)24	32⅞	835	46½	1181
		8	203.2	NM-M(*)-(Matl)-08-90(**)24	32⅞	835	46½	1181
36	914.4	4	101.6	NM-M(*)-(Matl)-04-90(**)36	44⅝	1133	63⁵⁄₁₆	1608
		6	152.4	NM-M(*)-(Matl)-06-90(**)36	44⅝	1133	63⁵⁄₁₆	1608
		8	203.2	NM-M(*)-(Matl)-08-90(**)36	44⅝	1133	63⁵⁄₁₆	1608

(*) Side Rail Height. (**) Add "VI" for vertical inside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

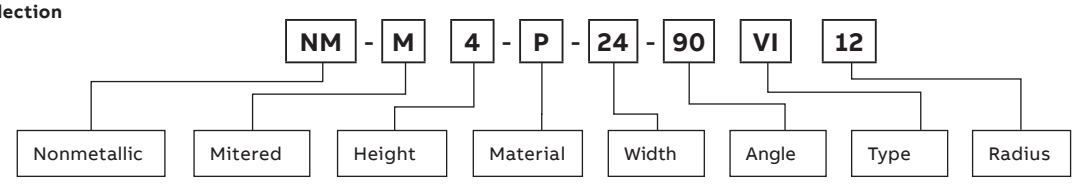
90° Vertical outside bend fittings



Bend radius (R)		Tray width			Vertical bend 90° Vertical outside bend			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	B (in)	B (mm)
12	304.8	4	101.6	NM-M(*)-(Matl)-04-90(**)12	19⅞	505	28⅛	714
		6	152.4	NM-M(*)-(Matl)-06-90(**)12	21⅞	555	30¹⁵⁄₁₆	786
		8	203.2	NM-M(*)-(Matl)-08-90(**)12	23⅞	606	33¾	857
24	609.6	4	101.6	NM-M(*)-(Matl)-04-90(**)24	31⅞	810	45¹⁄₁₆	1145
		6	152.4	NM-M(*)-(Matl)-06-90(**)24	33⅞	860	47¹⁵⁄₁₆	1218
		8	203.2	NM-M(*)-(Matl)-08-90(**)24	35⅞	911	50¾	1289
36	914.4	4	101.6	NM-M(*)-(Matl)-04-90(**)36	43⅞	1114	62¹⁄₁₆	1576
		6	152.4	NM-M(*)-(Matl)-06-90(**)36	45⅞	1165	64⅞	1648
		8	203.2	NM-M(*)-(Matl)-08-90(**)36	47⅞	1216	67¾	1721

(*) Side Rail Height. (**) Add "VO" for vertical outside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

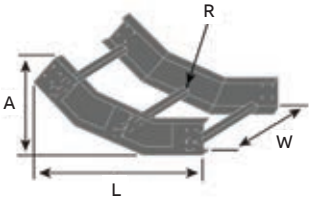
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 45°/30° Vertical inside bend fittings

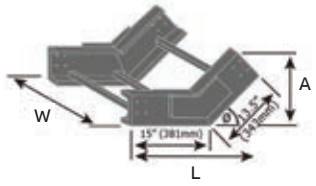
45° Vertical inside bend



Bend radius (R)		Tray width			Vertical bend 45° Vertical inside bend			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	L (in)	L (mm)
12	304.8	3	76.2	NM-M(*)-(Matl)-03-45(**)12	8	203	18	457
		4	101.6	NM-M(*)-(Matl)-04-45(**)12	11 1/16	281	19 7/8	505
		6	152.4	NM-M(*)-(Matl)-06-45(**)12	12 1/2	318	19 7/8	505
		8	203.2	NM-M(*)-(Matl)-08-45(**)12	13 7/8	352	19 7/8	505
24	609.6	3	76.2	NM-M(*)-(Matl)-03-45(**)24	9	229	24	610
		4	101.6	NM-M(*)-(Matl)-04-45(**)24	14 9/16	370	28 3/8	721
		6	152.4	NM-M(*)-(Matl)-06-45(**)24	16	406	28 3/8	721
		8	203.2	NM-M(*)-(Matl)-08-45(**)24	17 1/16	443	28 3/8	721
36	914.4	3	76.2	NM-M(*)-(Matl)-03-45(**)36	11	279	30	762
		4	101.6	NM-M(*)-(Matl)-04-45(**)36	18 1/8	470	36 7/8	937
		6	152.4	NM-M(*)-(Matl)-06-45(**)36	19 1/2	495	36 7/8	937
		8	203.2	NM-M(*)-(Matl)-08-45(**)36	20 15/16	532	36 7/8	937

(*) Side Rail Height. (**) Add "VI" for vertical inside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

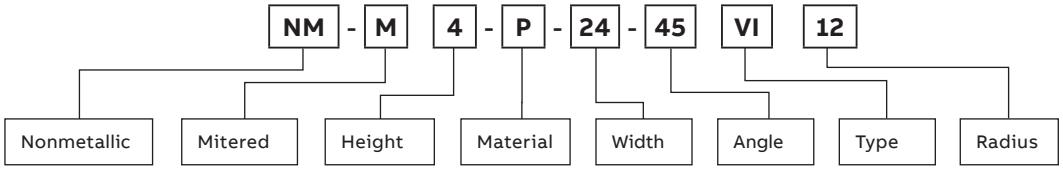
30° Vertical inside bend



Bend radius (R)		Tray width			Vertical bend 30° Vertical inside bend			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	L (in)	L (mm)
12	304.8	3	76.2	NM-M(*)-(Matl)-03-30(**)12	8	203	18	457
		4	101.6	NM-M(*)-(Matl)-04-30(**)12	9	229	18	457
		6	152.4	NM-M(*)-(Matl)-06-30(**)12	10	254	18	457
		8	203.2	NM-M(*)-(Matl)-08-30(**)12	12	305	18	457
24	609.6	3	76.2	NM-M(*)-(Matl)-03-30(**)24	9	229	24	610
		4	101.6	NM-M(*)-(Matl)-04-30(**)24	10	254	24	610
		6	152.4	NM-M(*)-(Matl)-06-30(**)24	12	305	24	610
		8	203.2	NM-M(*)-(Matl)-08-30(**)24	14	356	24	610
36	914.4	3	76.2	NM-M(*)-(Matl)-03-30(**)36	11	279	30	762
		4	101.6	NM-M(*)-(Matl)-04-30(**)36	12	305	30	762
		6	152.4	NM-M(*)-(Matl)-06-30(**)36	14	356	30	762
		8	203.2	NM-M(*)-(Matl)-08-30(**)36	15	381	30	762

(*) Side Rail Height. (**) Add "VI" for vertical inside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

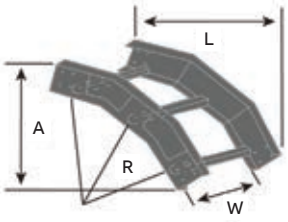
Fitting number selection



Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - 35°/45° Vertical outside bend fittings

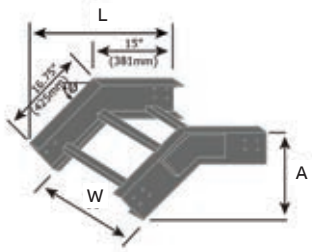
45° Vertical outside bend



Bend radius (R)		Tray width			Vertical bend 45° Vertical outside bend			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	L (in)	L (mm)
12	304.8	3	76.2	NM-M(*)-(Matl)-03-45(**)12	7	178	17	432
		4	101.6	NM-M(*)-(Matl)-04-45(**)12	10¾	273	19³⁄₁₆	487
		6	152.4	NM-M(*)-(Matl)-06-45(**)12	12¾	324	19⁹⁄₁₆	522
		8	203.2	NM-M(*)-(Matl)-08-45(**)12	14¾	375	22	559
24	609.6	3	76.2	NM-M(*)-(Matl)-03-45(**)24	9	229	23	584
		4	101.6	NM-M(*)-(Matl)-04-45(**)24	14⁵⁄₁₆	364	27¹¹⁄₁₆	703
		6	152.4	NM-M(*)-(Matl)-06-45(**)24	16⁵⁄₁₆	414	29¹⁄₁₆	738
		8	203.2	NM-M(*)-(Matl)-08-45(**)24	18⁵⁄₁₆	465	30½	775
36	914.4	3	76.2	NM-M(*)-(Matl)-03-45(**)36	11	279	29	737
		4	101.6	NM-M(*)-(Matl)-04-45(**)36	17¹³⁄₁₆	452	36⅛	918
		6	152.4	NM-M(*)-(Matl)-06-45(**)36	19¹³⁄₁₆	503	37⁹⁄₁₆	954
		8	203.2	NM-M(*)-(Matl)-08-45(**)36	21¹³⁄₁₆	554	39	991

(*) Side Rail Height. (**) Add "VO" for vertical outside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

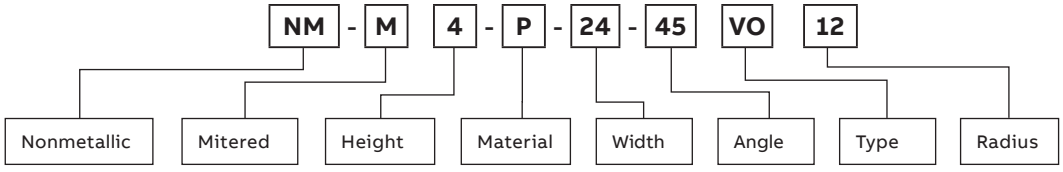
30° Vertical outside bend



Bend radius (R)		Tray width			Vertical bend 30° Vertical outside bend			
(in)	(mm)	(in)	(mm)	Cat. No.	A (in)	A (mm)	L (in)	L (mm)
12	304.8	3	76.2	NM-M(*)-(Matl)-03-30(**)12	7	178	17	432
		4	101.6	NM-M(*)-(Matl)-04-30(**)12	8	203	17	432
		6	152.4	NM-M(*)-(Matl)-06-30(**)12	10	254	18	457
		8	203.2	NM-M(*)-(Matl)-08-30(**)12	10	254	18	457
24	609.6	3	76.2	NM-M(*)-(Matl)-03-30(**)24	9	229	23	584
		4	101.6	NM-M(*)-(Matl)-04-30(**)24	10	254	23	584
		6	152.4	NM-M(*)-(Matl)-06-30(**)24	12	305	24	610
		8	203.2	NM-M(*)-(Matl)-08-30(**)24	12	305	24	610
36	914.4	3	76.2	NM-M(*)-(Matl)-03-30(**)36	11	279	29	737
		4	101.6	NM-M(*)-(Matl)-04-30(**)36	12	305	29	737
		6	152.4	NM-M(*)-(Matl)-06-30(**)36	14	356	30	762
		8	203.2	NM-M(*)-(Matl)-08-30(**)36	14	356	30	762

(*) Side Rail Height. (**) Add "VO" for vertical outside to complete Cat. No. One pair of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

Fitting number selection

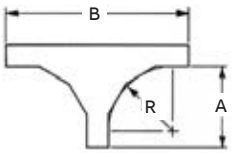


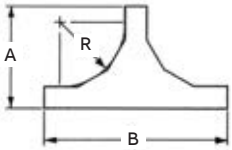
Nonmetallic - Cable tray fittings

3" (76.2mm), 4" (101.6mm), 6" (152.4mm) & 8" (203.2mm) - Vertical tee fittings

Vertical tee

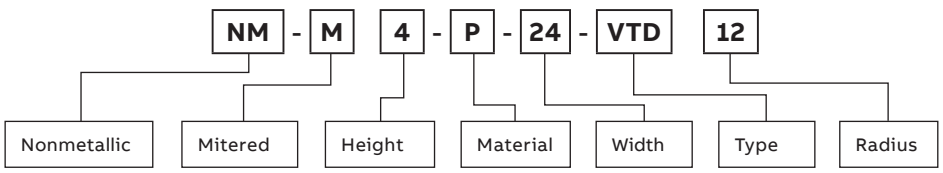
	Bend radius (R)		Tray width			Vertical tee	
	(in)	(mm)	(in)	(mm)	Cat. No.	A (in) / (mm)	B (in) / (mm)
VTD vertical tee down	24	609.6	6	152.4	NM-M(*)-(Matl)-06-(**)24	33⅞ 860	61¾ 1568
			9	228.6	NM-M(*)-(Matl)-09-(**)24		
			12	304.8	NM-M(*)-(Matl)-12-(**)24		
			18	457.2	NM-M(*)-(Matl)-18-(**)24		
			24	609.6	NM-M(*)-(Matl)-24-(**)24		
			30	762	NM-M(*)-(Matl)-30-(**)24		
			36	914.4	NM-M(*)-(Matl)-36-(**)24		
VTU vertical tee up	36	914.4	6	152.4	NM-M(*)-(Matl)-06-(**)36	45⅞ 1165	79½ 2178
			9	228.6	NM-M(*)-(Matl)-09-(**)36		
			12	304.8	NM-M(*)-(Matl)-12-(**)36		
			18	457.2	NM-M(*)-(Matl)-18-(**)36		
			24	609.6	NM-M(*)-(Matl)-24-(**)36		
			30	762	NM-M(*)-(Matl)-30-(**)36		
			36	914.4	NM-M(*)-(Matl)-36-(**)36		





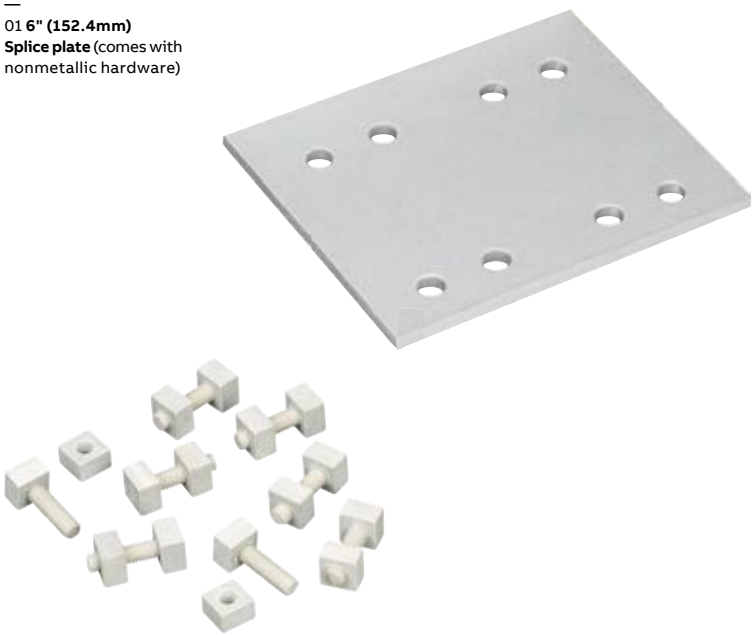
(*) Side Rail Height. (**) Add: "VTD" for vertical tee down or "VTU" for vertical tee up to complete Cat. No. Two pairs of fiberglass splice plates with SS6 hardware included.
Dimensions for reference only; when critical, contact your T&B representative. Consult your T&B representative for availability of molded fittings.
Standard rung spacing for fittings is 9¼" nominal (235mm). For other types of splice plates, see pages 354 - 357.

Fitting number selection



Nonmetallic - Cable tray
Splice plates

01 **6" (152.4mm) Splice plate** (comes with nonmetallic hardware)

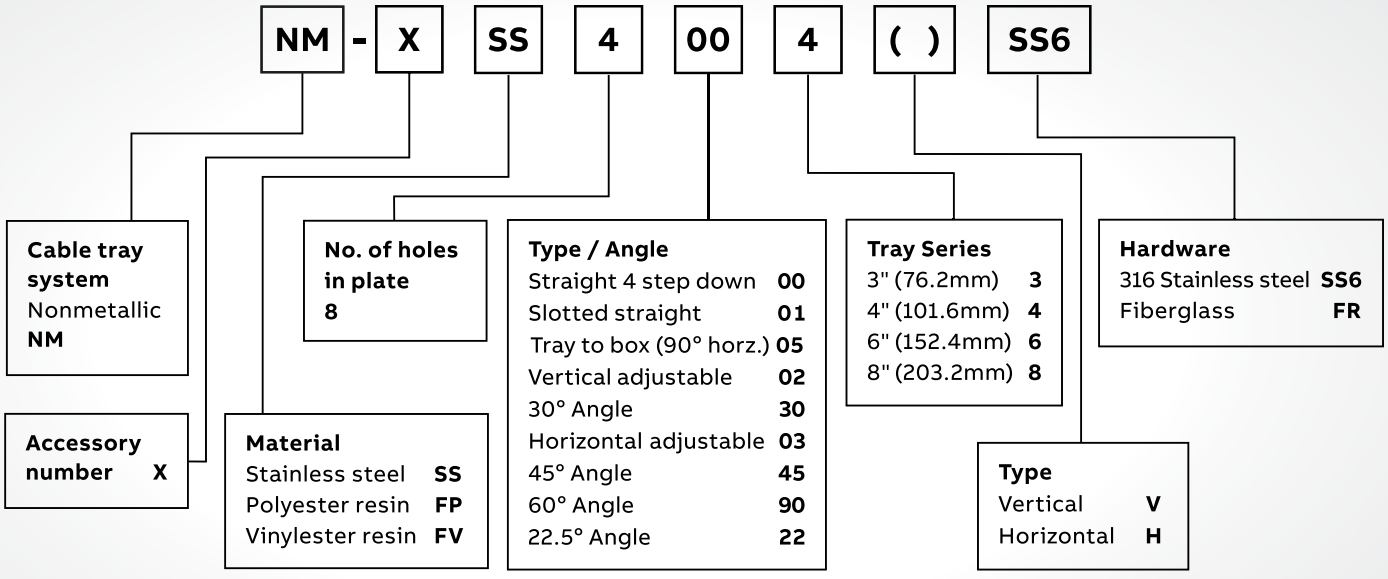


01

Splice plate number selection

Example:
NM-XSS4004SS6
- 316 stainless steel
- 4 holes supplied with 316 stainless steel hardware for a 4" (101.6mm) deep straight section.

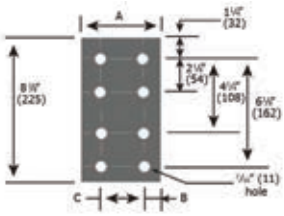
NOTE: Splice plates shown on pages 355 - 357 represent splices for 6" (152.4mm) side rail height. Number of holes may vary with other side rail heights.



Nonmetallic - Cable tray

Splice plates

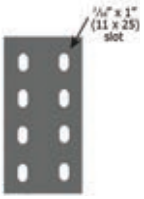
Standard splice plates



Cat. No.	Material	Height (in)	Height (mm)
NM-XSS-8008*	Stainless steel Polyester resin Vinylester resin	8	203.2
NM-XSS-4006*		6	152.4
NM-XSS-4004*		4	101.6
NM-XSS-4003*		3	76.2

* Hardware suffix needed to complete catalog number. All splice plate hardware is ⅜". Quantity required supplied with each tray section. Order only pairs of splice plates needed for field modifications. SS6 hardware supplied as standard - use SS6 suffix. Other hardware available; specify by hardware suffix. Hardware other than SS6 is considered special.

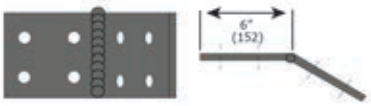
Expansion splice plates



Cat. No.	Material	Height (in)	Height (mm)
NM-XSS-8018*	Stainless steel Polyester resin Vinylester resin	8	203.2
NM-XSS-8016*		6	152.4
NM-XSS-4014*		4	101.6
NM-XSS-4013*		3	76.2

Allow for up to 1" (25.4mm) expansion or contraction of tray system. For correct gap setting procedure, see page xxx
* Hardware suffix needed to complete catalog number.

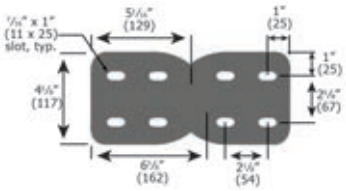
Horizontal adjustable splice plates



Cat. No.	Material	Height (in)	Height (mm)
NM-XSS-8038*	Stainless steel Polyester resin Vinylester resin	8	203.2
NM-XSS-4036*		6	152.4
NM-XSS-4034*		4	101.6
NM-XSS-4033*		3	76.2

Provide for changes in the horizontal direction that do not conform to standard fittings. Furnished in pairs.
* Hardware suffix needed to complete catalog number.

Vertical adjustable splice plates

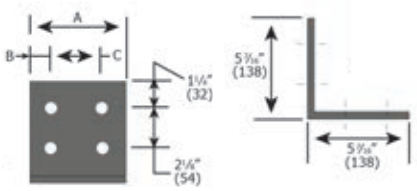


Cat. No.	Material	Height (in)	Height (mm)
NM-XSS-8028*	Stainless steel Polyester resin Vinylester resin	8	203.2
NM-XSS-4026*		6	152.4
NM-XSS-4024*		4	101.6
NM-XSS-4023*		3	76.2

Provide for changes in elevation that do not conform to standard vertical fittings. Furnished in pairs.
* Hardware suffix needed to complete catalog number.

Nonmetallic - Cable tray

Splice plates



Tray-to-box splice plates

- Used to attach the end of a tray run to a distribution box or control center
- Furnished in pairs

Cat. No. Stainless steel	Cat. No. Polyester resin	Cat. No. Vinylester resin	Height (in)	Height (mm)
NM-XSS8058*	NM-XFP8058*	NM-XFV8058*	8	203.2
NM-XSS4056*	NM-XFP4056*	NM-XFV4056*	6	152.4
NM-XSS4054*	NM-XFP4054*	NM-XFV4054*	4	101.6
NM-XSS4053*	NM-XFP4053*	NM-XFV4053*	3	76.2

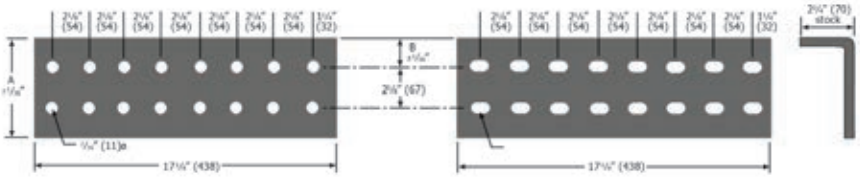
* Hardware suffix needed to complete catalog number.

Combo hold down guide clamp

- Easy-to-install design
- Compatible with all series of T&B Cable Tray
- Available in aluminum, pre-galvanized steel, hot-dipped galvanized steel and stainless steel 316
- Versatile use for strut and beam installations
- Functional in all cable tray positions including vertical installations

Cat. No.	Material	Hardware size (in)	Std. pkg. qty.	UPC no.
ABWCHGC	Aluminum	⅜	1	753554-07905
ABWCHGC-HDW*	Aluminum	⅜	1	753554-08005
SPWCHGC	Pre-galvanized steel	⅜	1	753554-07906
SPWCHGC-HDW*	Pre-galvanized steel	⅜	1	753554-08006
SHWCHGC	Hot-dipped galvanized steel	⅜	1	753554-07907
SHWCHGC-HDW*	Hot-dipped galvanized steel	⅜	1	753554-08007
SSWCHGC	Stainless steel type 316L	⅜	1	753554-07908
SSWCHGC-HDW*	Stainless steel type 316L	⅜	1	753554-08008

* Hardware is included.



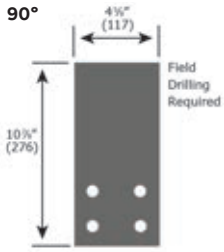
Heavy duty splice plate

Cat. No.	Description	Height (in)	Height (mm)	Width (in)	Width (mm)
NM-XFP16-00-8H-SS6	16 hole standard splice plate	8	204	17¼	438.2
NM-XFP16-01-8H-SS6	16 hole expansion splice plate	8	204	17¼	438.2

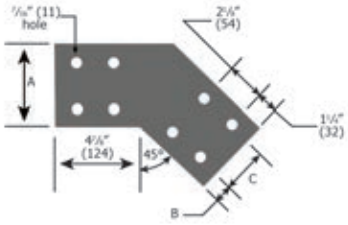
Nonmetallic - Cable tray

Splice plates

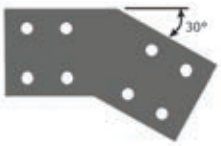
90°



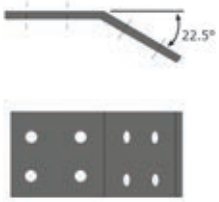
45°



30°



22.5°



Vertical splice plate

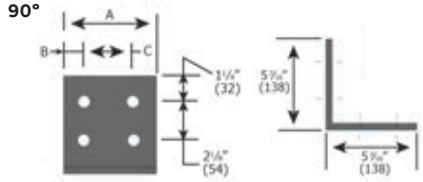
Cat. No. Stainless steel	Cat. No. Polyester resin	Cat. No. Vinylester resin	Height (in)	Height (mm)
90°				
NM-XSS-8908V*	NM-XFP-8908V*	NM-XFV-8908V*	8	203.2
NM-XSS-8906V*	NM-XFP-8906V*	NM-XFV-8906V*	6	152.4
NM-XSS-4904V*	NM-XFP-4904V*	NM-XFV-4904V*	4	101.6
NM-XSS-4903V*	NM-XFP-4903V*	NM-XFV-4903V*	3	76.2
45°				
NM-XSS-8458V*	NM-XFP-8458V*	NM-XFV-8458V*	8	203.2
NM-XSS-8456V*	NM-XFP-8456V*	NM-XFV-8456V*	6	152.4
NM-XSS-4454V*	NM-XFP-4454V*	NM-XFV-4454V*	4	101.6
NM-XSS-4453V*	NM-XFP-4453V*	NM-XFV-4453V*	3	76.2

* Hardware suffix needed to complete catalog number.

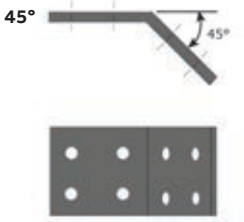
Cat. No. Stainless steel	Cat. No. Polyester resin	Cat. No. Vinylester resin	Height (in)	Height (mm)
30°				
NM-XSS-8308V*	NM-XFP-8308V*	NM-XFV-8308V*	8	203.2
NM-XSS-8306V*	NM-XFP-8306V*	NM-XFV-8306V*	6	152.4
NM-XSS-4304V*	NM-XFP-4304V*	NM-XFV-4304V*	4	101.6
NM-XSS-4303V*	NM-XFP-4303V*	NM-XFV-4303V*	3	76.2
22.5°				
NM-XSS-8228V*	NM-XFP-8228V*	NM-XFV-8228V*	6	152.4
NM-XSS-8226V*	NM-XFP-8226V*	NM-XFV-8226V*	6	152.4
NM-XSS-4224V*	NM-XFP-4224V*	NM-XFV-4224V*	4	101.6
NM-XSS-4223V*	NM-XFP-4223V*	NM-XFV-4223V*	3	76.2

* Hardware suffix needed to complete catalog number.

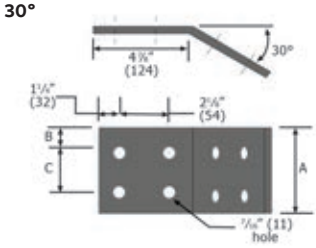
90°



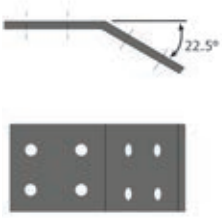
45°



30°



22.5°



Horizontal splice plates

Cat. No. Stainless steel	Cat. No. Polyester resin	Cat. No. Vinylester resin	Height (in)	Height (mm)
90°				
NM-XSS-8908H*	NM-XFP-8908H*	NM-XFV-8908H*	8	203.2
NM-XSS-8906H*	NM-XFP-8906H*	NM-XFV-8906H*	6	152.4
NM-XSS-4904H*	NM-XFP-4904H*	NM-XFV-4904H*	4	101.6
NM-XSS-4903H*	NM-XFP-4903H*	NM-XFV-4903H*	3	76.2
45°				
NM-XSS-8458H*	NM-XFP-8458H*	NM-XFV-8458H*	8	203.2
NM-XSS-8456H*	NM-XFP-8456H*	NM-XFV-8456H*	6	152.4
NM-XSS-4454H*	NM-XFP-4454H*	NM-XFV-4454H*	4	101.6
NM-XSS-4453H*	NM-XFP-4453H*	NM-XFV-4453H*	3	76.2

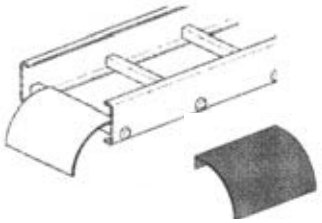
* Hardware suffix needed to complete catalog number.

Cat. No. Stainless steel	Cat. No. Polyester resin	Cat. No. Vinylester resin	Height (in)	Height (mm)
30°				
NM-XSS-8308H*	NM-XFP-8308H*	NM-XFV-8308H*	8	203.2
NM-XSS-8306H*	NM-XFP-8306H*	NM-XFV-8306H*	6	152.4
NM-XSS-4304H*	NM-XFP-4304H*	NM-XFV-4304H*	4	101.6
NM-XSS-4303H*	NM-XFP-4303H*	NM-XFV-4303H*	3	76.2
22.5°				
NM-XSS-8228H*	NM-XFP-8228H*	NM-XFV-8228H*	6	152.4
NM-XSS-8226H*	NM-XFP-8226H*	NM-XFV-8226H*	6	152.4
NM-XSS-4224H*	NM-XFP-4224H*	NM-XFV-4224H*	4	101.6
NM-XSS-4223H*	NM-XFP-4223H*	NM-XFV-4223H*	3	76.2

* Hardware suffix needed to complete catalog number.

Nonmetallic - Cable tray systems

Drop outs and barrier strips



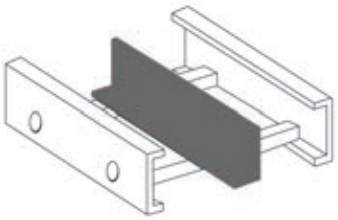
Ladder drop out

Specially designed ladder drop outs provide a rounded surface with adequate radius to protect cable as it exits from the tray, preventing damage to insulation.

Cat. No.	Material
NM-XWC-P-W*-9034	Pultruded fiberglass

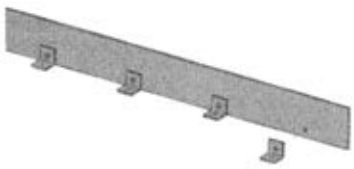
W = Tray width.

Barriers



Cat. No.	Material	Side rail height (in)	Side rail height (mm)
NM-BS08P-120	Polyester resin	8	203.2
NM-BS06P-120		6	152.4
NM-BS04P-120		4	101.6
NM-BS03P-120		3	76.2
NM-BS08V-120	Vinylester resin	8	203.2
NM-BS06V-120		6	152.4
NM-BS04V-120		4	101.6
NM-BS03V-120		3	76.2

Barriers are provided in 10 ft. lengths and supplied for field installation using 3/16" SS rivets (ref. part # TPDR) or use of an adjustable clamp ref. part # XXX (for 3, 4, 6 and 8" deep ladder tray).



Flexible horizontal barrier kit

Kit contents

- 1 pc. 72" (1,828.8mm) straight barrier
- 4 pc. XF-9002 barrier strip clip
- 8 pc. SS6 pop rivets
- 4 pc. #10 x ¾" stainless steel self-tapping screw
- Assembly required - directions included

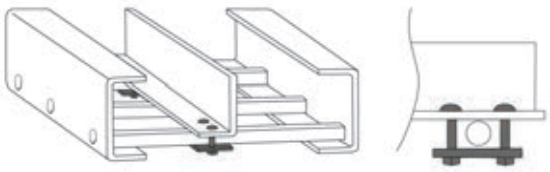
Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Loading depth (in)	Loading depth (mm)
NM-BS08P-90HBFL	Polyester resin	8	203.2	????	????
NM-BS06P-90HBFL		6	152.4	4 11/16	119.06
NM-BS04P-90HBFL		4	101.6	2 11/16	68.26
NM-BS03P-90HBFL		3	76.2	1¾	44.45
NM-BS08V-90HBFL	Vinylester resin	8	203.2	????	????
NM-BS06V-90HBFL		6	152.4	6 11/16	169.86
NM-BS04V-90HBFL		4	101.6	2 11/16	68.26
NM-BS03V-90HBFL		3	76.2	1¾	44.45

One kit allows up to 38 (965.2mm) radius position of the barrier.
For larger than 38 (965.2mm) radius barrier position, two kits are required.

Nonmetallic - Cable tray systems

Barrier strips and blind end plates

Barrier mounting angle clips with fasteners

	Cat. No.	Material
	NM-PK-BAC	Pultruded fiberglass (polyester & vinylester)

VO

VI

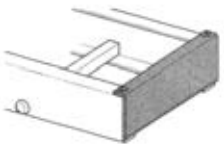
- Barriers for vertical fitting
- Please add angle (X) and radius (†) to catalog number
- Furnished with #10 x ¾" self-tapping stainless steel screws

Vertical barrier

Cat. No.	Material	Height (in)	Height (mm)
NM-BS08P(X)VI/VO	Polyester resin	8	203.2
NM-BS06P(X)VI/VO		6	152.4
NM-BS04P(X)VI/VO		4	101.6
NM-BS03P(X)VI/VO		3	76.2
NM-BS08V(X)VI/VO	Vinylester resin	8	203.2
NM-BS06V(X)VI/VO		6	152.4
NM-BS04V(X)VI/VO		4	101.6
NM-BS03V(X)VI/VO		3	76.2

VI = inside vertical, VO = outside vertical.

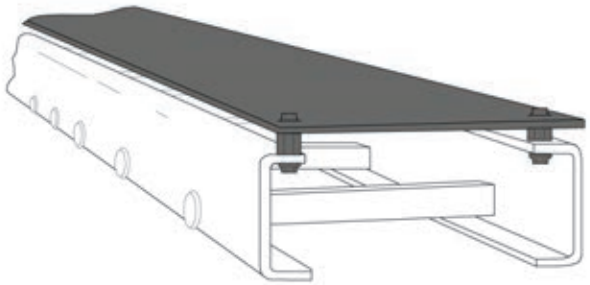
Blind end plates

	Cat. No.	Material	Height (in)	Height (mm)
	NM-XBE*1088W**	Polyester Vinylester	8	203.2
	NM-XBE*1086W**		6	152.4
	NM-XBE*1084W**		4	101.6
	NM-XBE*1083W**		3	76.2

Forms a closure for any tray that dead ends. Furnished as one plate.
* Material suf□x, P=Polyester, V= Vinylester. ** Hardware suffix needed to complete catalog number.
W = Tray width

Nonmetallic - Cable tray covers

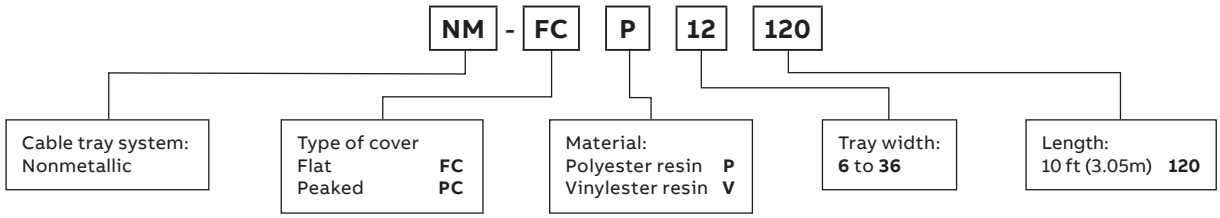
Covers



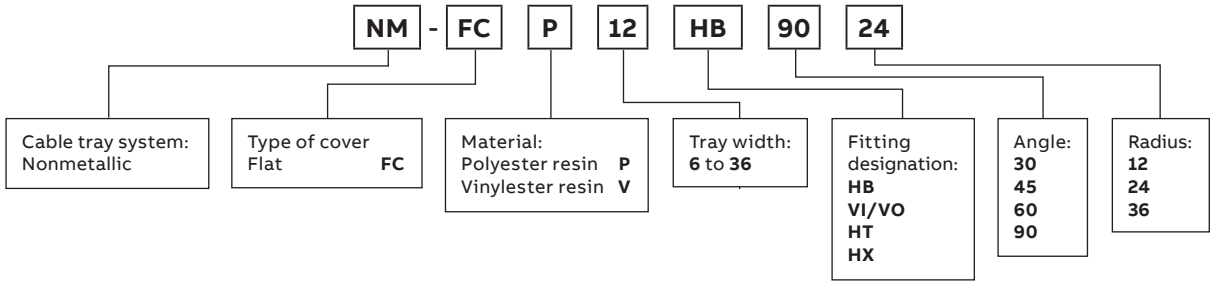
Covers for straight sections
- Material thickness: ⅛" (3.18mm)
- Standard cover length: 120" (10 ft)
- ¼" (6.35mm) diameter stainless fasteners with flat washers included

Covers for fittings
- Material thickness: ⅛" (3.18mm)
- ¼" (6.35mm) diameter stainless fasteners with flat washers included

Covers for straight sections - Selection guide



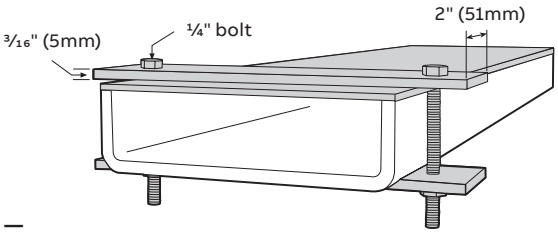
Covers for fittings - Selection guide



NOTE: Peaked fitting covers not available. Other fitting covers are available. Please consult your T&B representative.

Nonmetallic - Cable tray

Accessories



- Recommended for outdoor service
- Heavy-duty cover clamp available for flat covers only
- Available in stainless steel only

Heavy-duty cover clamp

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
NM-XWC-P-W*-9084	Stainless steel	8	203.2
NM-XWC-P-W*-9064		6	152.4
NM-XWC-P-W*-9044		4	101.6
NM-XWC-P-W*-9034		3	76.2

Pop rivets

	Cat. No.	Material
	TPDR	Stainless steel Thermoplastic

Raised cover clamps available.
Please consult your T&B representative.

Kit contents

- Resin
- Catalyst
- Stir stick and applicator

Brush-on resin seal kit

Cat. No.	Description
NM-RSK-QT	946 ml

To reseal fiberglass after field modifications.
Vinylester resin.

Spray sealant

	Cat. No.	Description
	NM-CLEAR-1215	12 fl. oz. can

Spray acrylic to reseal fiberglass after field modifications. Should be used for top coating polyester applications only.
Not recommended to seal vinylester.

Nonmetallic - Channel tray
Straight lengths

NOTE: Splice plates NOT included. See pages 366 - 367 for type of splice plates available.
Covers are available. Please consult your T&B representative.

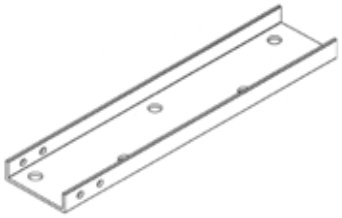
Channel tray

Thomas & Betts offers nonmetallic cable channel in solid or ventilated straight sections. Horizontal and vertical solid bottom fittings are also available to complete your system layout.

Channel tray fitting selection

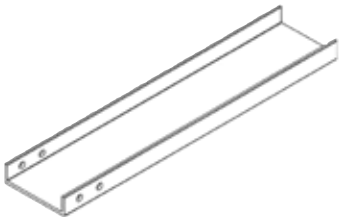
Example:
NM-FCCVP04-120 for polyester resin cable channel, 4" (101.6mm) wide ventilated bottom,
120" (10 ft / 3.05m) length. NOTE: Straights are provided without splice plate.

Specifications - Ventilated

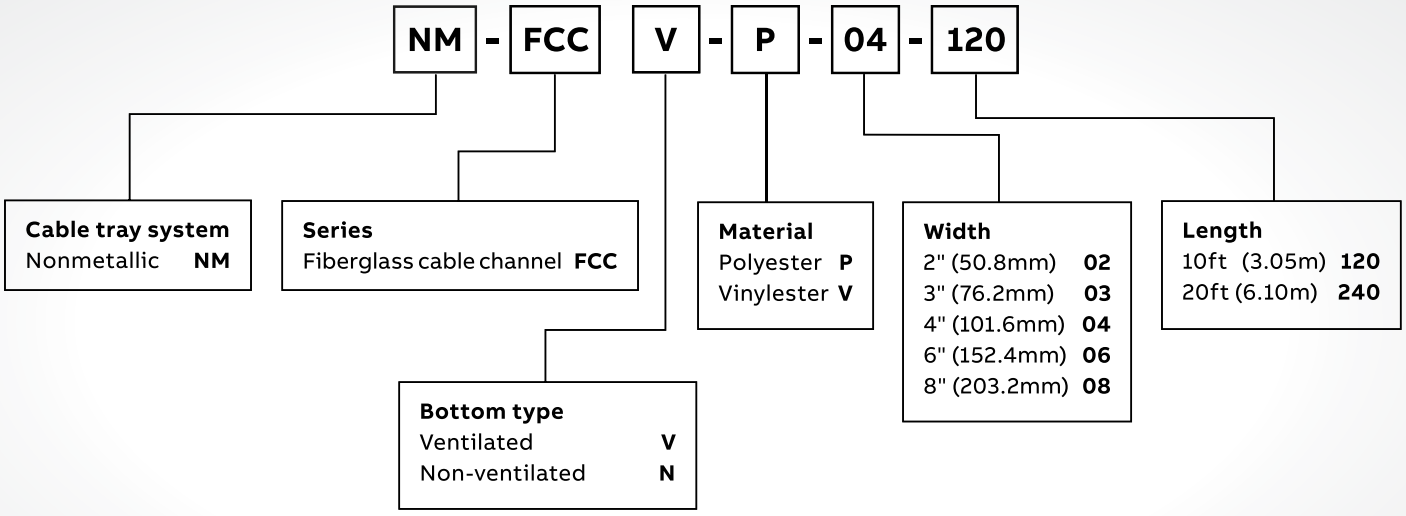


Width		Height		Length			
(in)	(mm)	(in)	(mm)	(ft)	(m)	Polyester	Vinylester
2	50.8	1	25.4	10	3.05	NM-FCCVP-02-120	NM-FCCVV-02-120
				20	6.10	NM-FCCVP-02-240	NM-FCCVV-02-240
3	76.2	1	25.4	10	3.05	NM-FCCVP-03-120	NM-FCCVV-03-120
				20	6.10	NM-FCCVP-03-240	NM-FCCVV-03-240
4	101.6	1⅛	28.6	10	3.05	NM-FCCVP-04-120	NM-FCCVV-04-120
				20	6.10	NM-FCCVP-04-240	NM-FCCVV-04-240
6	152.4	1⅝	41.3	10	3.05	NM-FCCVP-06-120	NM-FCCVV-06-120
				20	6.10	NM-FCCVP-06-240	NM-FCCVV-06-240
8	203.2	2³⁄₁₆	55.6	10	3.05	NM-FCCVP-08-120	NM-FCCVV-08-120
				20	6.10	NM-FCCVP-08-240	NM-FCCVV-08-240

Specifications - Non-ventilated

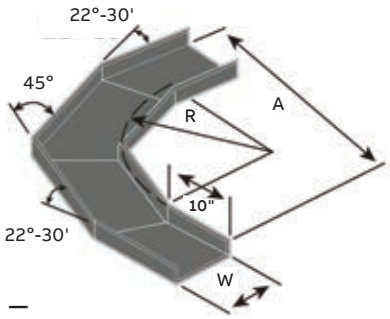


Width		Height		Length			
(in)	(mm)	(in)	(mm)	(ft)	(m)	Polyester	Vinylester
2	50.8	1	25.4	10	3.05	NM-FCCNP-02-120	NM-FCCNV-02-120
				20	6.10	NM-FCCNP-02-240	NM-FCCNV-02-240
3	76.2	1	25.4	10	3.05	NM-FCCNP-03-120	NM-FCCNV-03-120
				20	6.10	NM-FCCNP-03-240	NM-FCCNV-03-240
4	101.6	1⅛	28.6	10	3.05	NM-FCCNP-04-120	NM-FCCNV-04-120
				20	6.10	NM-FCCNP-04-240	NM-FCCNV-04-240
6	152.4	1⅝	41.3	10	3.05	NM-FCCNP-06-120	NM-FCCNV-06-120
				20	6.10	NM-FCCNP-06-240	NM-FCCNV-06-240
8	203.2	2³⁄₁₆	55.6	10	3.05	NM-FCCNP-08-120	NM-FCCNV-08-120
				20	6.10	NM-FCCNP-08-240	NM-FCCNV-08-240



Nonmetallic - Channel tray fittings

Horizontal bends and vertical bend fittings

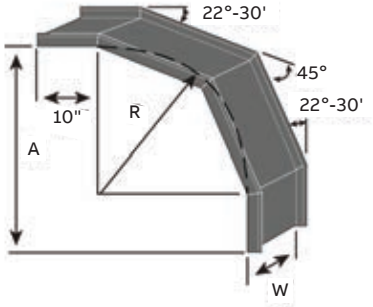


Horizontal bends

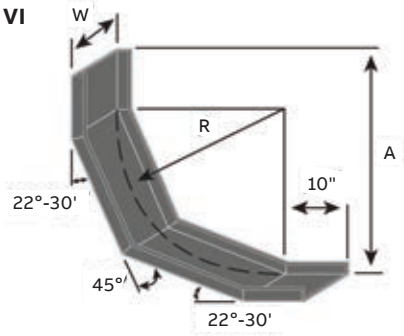
- One pair of splice plates included
- For vinylester resin, use “V” instead of “P” in catalog number
- Example: FCCNV-04-90HB12

Cat. No.	Material	Angle	Side rail height (in)	Side rail height (mm)
NM-FCCNP-03-90HB12	Polyester	90°	3	76.2
NM-FCCNP-04-90HB12	Vinylester resin		4	101.6
NM-FCCNP-06-90HB12			6	152.4
NM-FCCNP-08-90HB12			8	203.2
NM-FCCNP-03-45HB12	Polyester	45°	4	76.2
NM-FCCNP-04-45HB12	Vinylester resin		4	101.6
NM-FCCNP-06-45HB12			6	152.4
NM-FCCNP-08-45HB12			8	203.2

VO



VI



Vertical bends

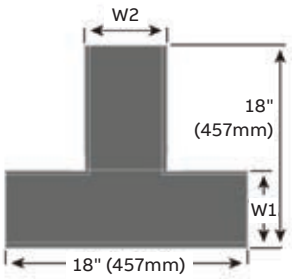
- One pair of splice plates included
- For vinylester resin, use “V” instead of “P” in catalog number
- Example: FCCNV-04-90VI12

Cat. No.	Material	Angle	Side rail height (in)	Side rail height (mm)
NM-FCCNP-03-90VI12*	Polyester	90°	3	76.2
NM-FCCNP-04-90VI12*	Vinylester resin		4	101.6
NM-FCCNP-06-90VI12*			6	152.4
NM-FCCNP-08-90VI12*			8	203.2
NM-FCCNP-03-45VI12*	Polyester	45°	4	76.2
NM-FCCNP-04-45VI12*	Vinylester resin		4	101.6
NM-FCCNP-06-45VI12*			6	152.4
NM-FCCNP-08-45VI12*			8	203.2

* For vertical outside bends, replace VI with VO

Nonmetallic - Channel tray fittings

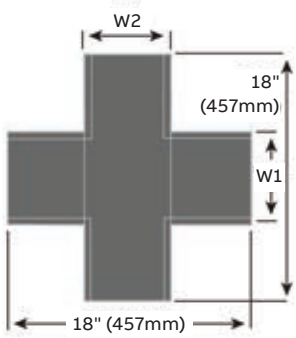
Horizontal tee and cross fittings



- Two pairs of splice plates included
- For vinylester resin, use “V” instead of “P” in catalog number
- Example: FCCNV-04-HT12

Horizontal tees

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
NM-FCCNP-03-HT12	Polyester	3	76.2
NM-FCCNP-04-HT12	Vinylester resin	4	101.6
NM-FCCNP-06-HT12		6	152.4
NM-FCCNP-08-HT12		8	203.2



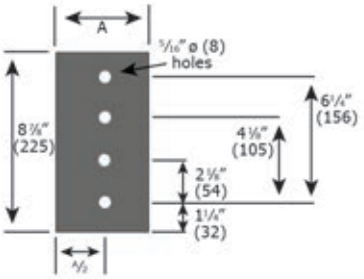
- Three pairs of splice plates included
- For vinylester resin, use “V” instead of “P” in catalog number
- Example: FCCNV-04-HX12

Horizontal crosses

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
NM-FCCNP-03-HX12	Polyester	3	76.2
NM-FCCNP-04-HX12	Vinylester resin	4	101.6
NM-FCCNP-06-HX12		6	152.4
NM-FCCNP-08-HX12		8	203.2

Nonmetallic - Channel tray systems

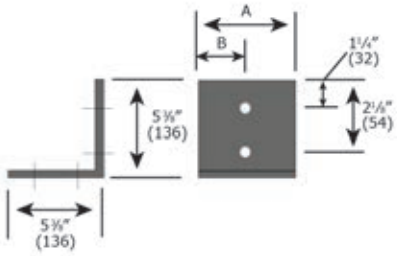
Standard and horizontal 90°, 45°, 30° & 22.5° splice plates



Standard splice plates

Cat. No.	Material
NM-XSS-1001-SS6	Stainless steel
NM-XFP-1001-SS6	Polyester resin
NM-XFV-1001-SS6	Vinylester resin

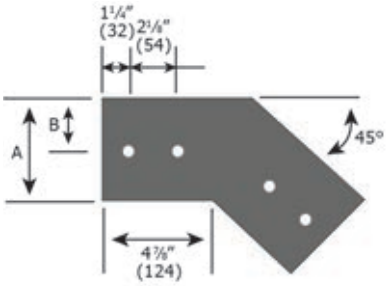
Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.



Horizontal 90° splice plates

Cat. No.	Material
NM-XSS-1901H-SS6	Stainless steel
NM-XFP-1901H-SS6	Polyester resin
NM-XFV-1901H-SS6	Vinylester resin

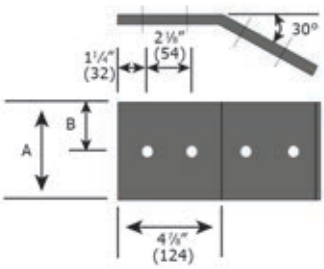
Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.



Horizontal 45° splice plates

Cat. No.	Material
NM-XSS-1451H-SS6	Stainless steel
NM-XFP-1451H-SS6	Polyester resin
NM-XFV-1451H-SS6	Vinylester resin

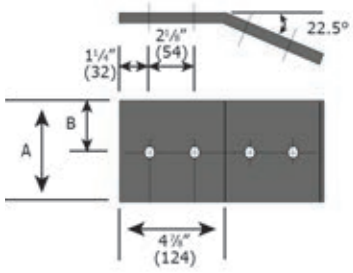
Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.



Horizontal 30° splice plates

Cat. No.	Material
NM-XSS-1301H-SS6	Stainless steel
NM-XFP-1301H-SS6	Polyester resin
NM-XFV-1301H-SS6	Vinylester resin

Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.



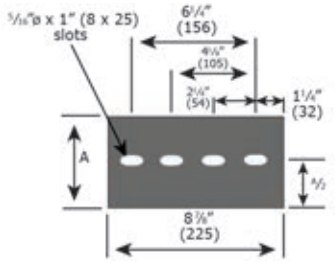
Horizontal 22.5° splice plates

Cat. No.	Material
NM-XSS-1221H-SS6	Stainless steel
NM-XFP-1221H-SS6	Polyester resin
NM-XFV-1221H-SS6	Vinylester resin

Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.

Nonmetallic - Channel tray systems

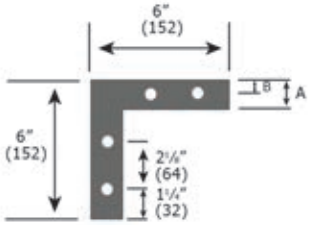
Expansion and vertical 90°, 45°, 30° & 22.5° splice plates



Expansion splice plates

Cat. No.	Material
NM-XSS-1011-SS6	Stainless steel
NM-XFP-1011-SS6	Polyester resin
NM-XFV-1011-SS6	Vinylester resin

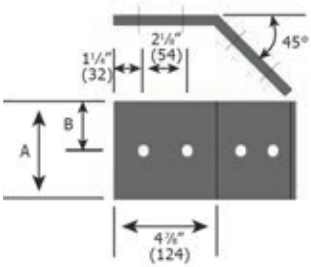
Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.



Vertical 90° splice plates

Cat. No.	Material
NM-XSS-1901V-SS6	Stainless steel
NM-XFP-1901V-SS6	Polyester resin
NM-XFV-1901V-SS6	Vinylester resin

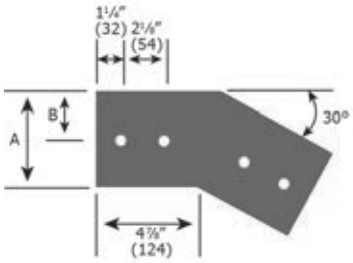
Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.



Vertical 45° splice plates

Cat. No.	Material
NM-XSS-1451V-SS6	Stainless steel
NM-XFP-1451V-SS6	Polyester resin
NM-XFV-1451V-SS6	Vinylester resin

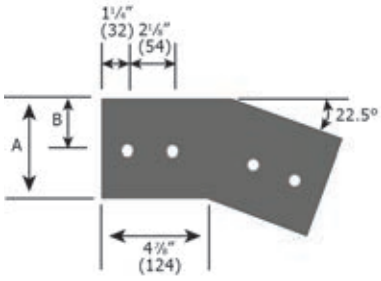
Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.



Vertical 30° splice plates

Cat. No.	Material
NM-XSS-1301V-SS6	Stainless steel
NM-XFP-1301V-SS6	Polyester resin
NM-XFV-1301V-SS6	Vinylester resin

Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.



Vertical 22.5° splice plates

Cat. No.	Material
NM-XSS-1221H-SS6	Stainless steel
NM-XFP-1221H-SS6	Polyester resin
NM-XFV-1221H-SS6	Vinylester resin

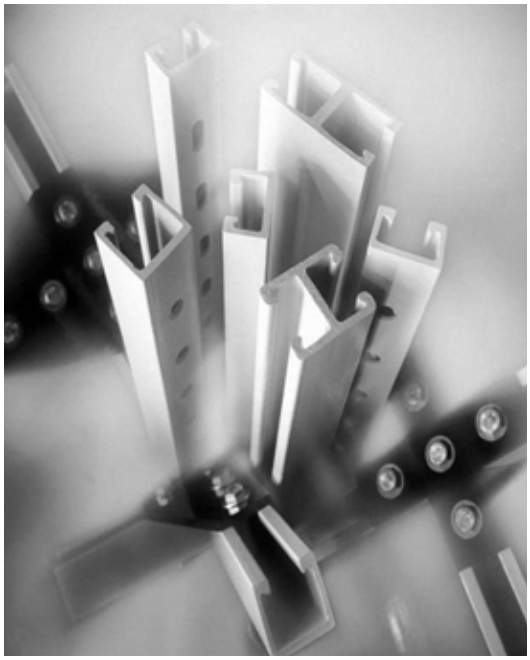
Supplied in pairs. Supplied with standard hardware, ¼" stainless steel 316.

Nonmetallic - Strut systems
Channels

Channels

Thomas & Betts is proud of its line of nonmetallic strut and accessories. You'll find a complete selection of nonmetallic accessories, fasteners, hangers, pipe clamps and channels.

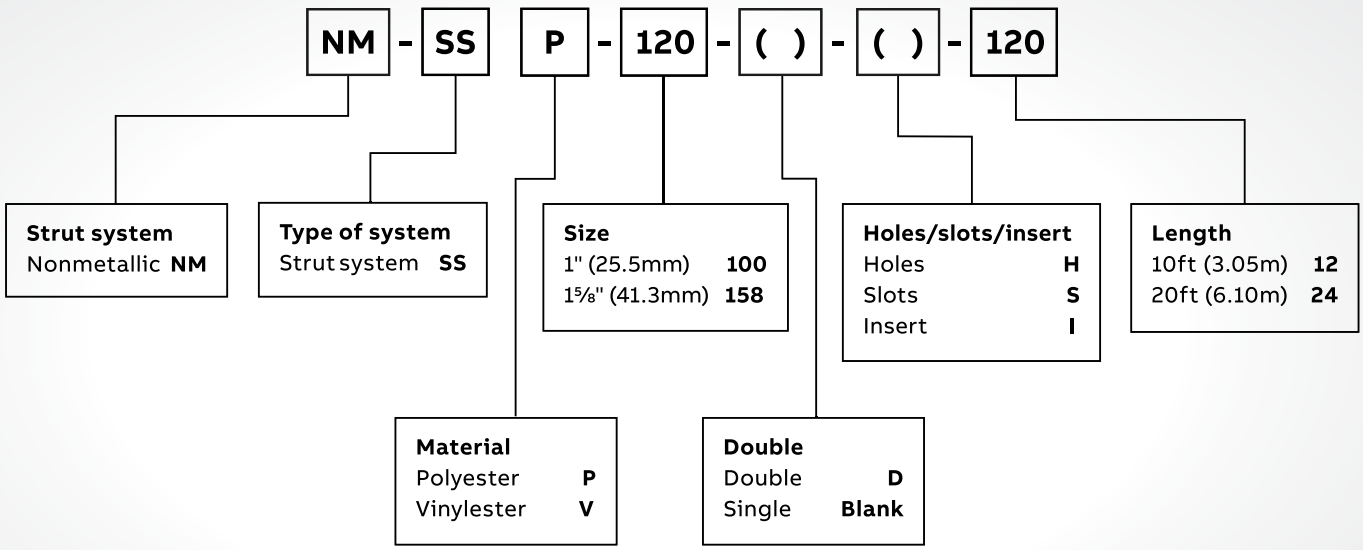
Most Thomas & Betts strut products are available in a choice of resins – either vinylester or polyester. Our design and engineering staff is ready to help you select the material that best suits your needs.



Channel fitting selection

Example:
NM-SSP-100-120, 1" (25.5mm) single strut, 120" (10 ft / 3.05m) NOTE: Stocked in 120" (10 ft / 3.05m) and 240" (20 ft / 6.10m) lengths.

*NOTE: The U-style and H-style systems are interchangeable.

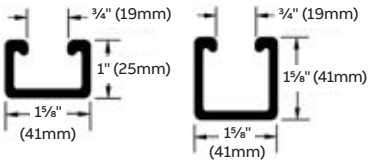


Nonmetallic - Strut systems

Channels - Combinations and hole pattern

Solid – Single strut

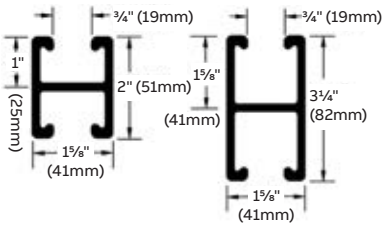
		Cat. No.	Material/resin	Color	Weight (lb/ft)	Weight (kg/m)
NM-SS(*)-100	NM-SS(*)-158	NM-SSP-100-(L)	Polyester	Gray	0.47	0.70
		NM-SSP-158-(L)			0.63	0.94
		NM-SSV-100-(L)	Vinylester	Beige	0.47	0.70
		NM-SSV-158-(L)			0.63	0.94



*Add P for polyester or V for vinylester.
(L) Add desired length 120 (10 ft.) or 240 (20 ft.)
Cut-to-length channel also available.

Solid – Back to back

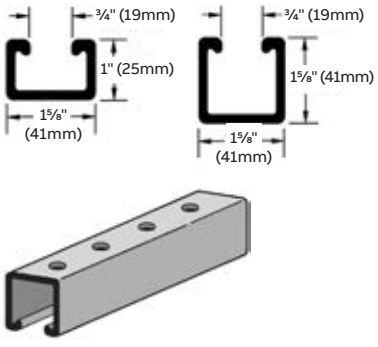
		Cat. No.	Material/resin	Color	Weight (lb/ft)	Weight (kg/m)
NM-SS(*)-100-D	NM-SS(*)-158-D	NM-SSP-100-D-(L)	Polyester	Gray	0.86	1.28
		NM-SSP-158-D-(L)			1.17	1.75
		NM-SSV-100-D-(L)	Vinylester	Beige	0.86	1.28
		NM-SSV-158-D-(L)			1.17	1.75



*Add P for polyester or V for vinylester.
(L) Add desired length 120 (10 ft.) or 240 (20 ft.)
Cut-to-length channel also available.

Punched

		Cat. No.	Material/resin	Color	Weight (lb/ft)	Weight (kg/m)
NM-SS(*)-100-H	NM-SS(*)-158-H	NM-SSP-100-H-(L)	Polyester	Gray	0.47	0.67
		NM-SSP-158-H-(L)			0.63	0.91
		NM-SSV-100-H-(L)	Vinylester	Beige	0.45	0.67
		NM-SSV-158-H-(L)			0.61	0.91

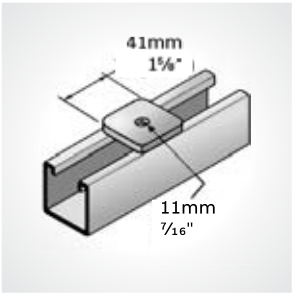


Holes – 9⁄16" holes x 1⅞" on center.
(L) Add desired length 120 (10 ft.) or 240 (20 ft.)
Cut-to-length channel also available.

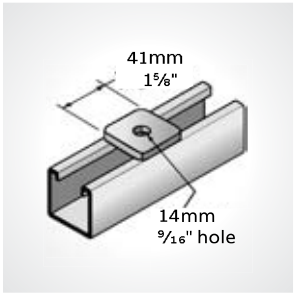
Nonmetallic - Strut systems

Superstrut™ fittings and brackets

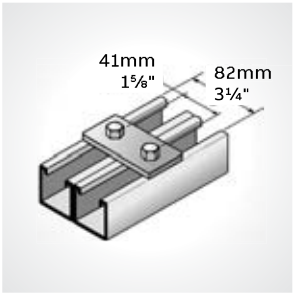
01



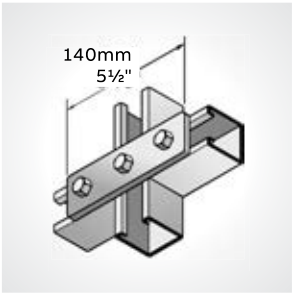
02



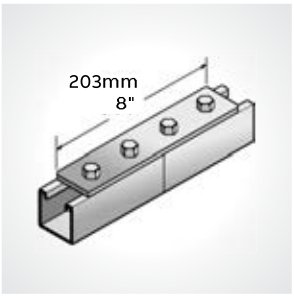
03



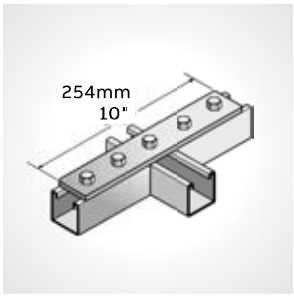
04



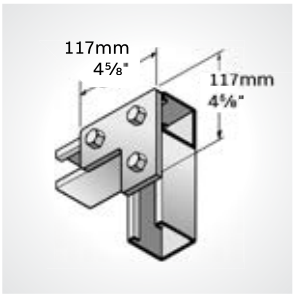
05



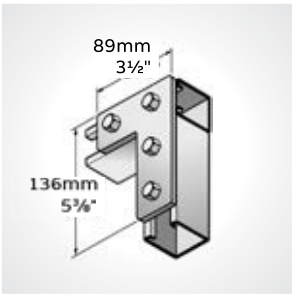
06



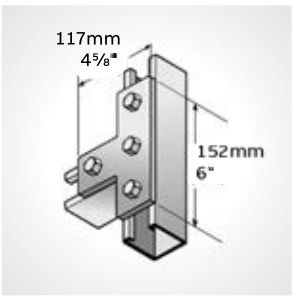
07



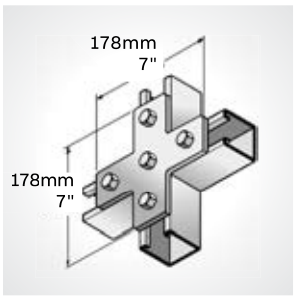
08



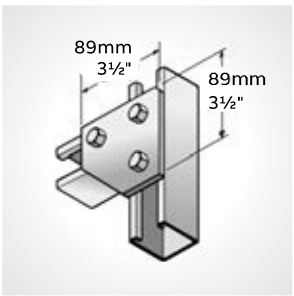
09



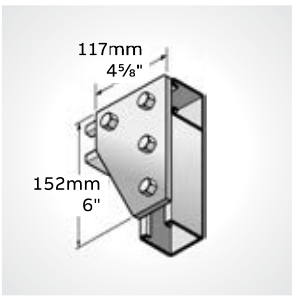
10



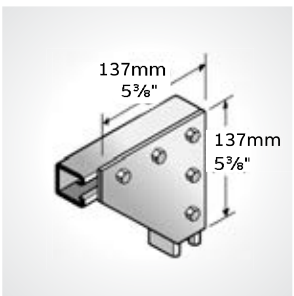
11



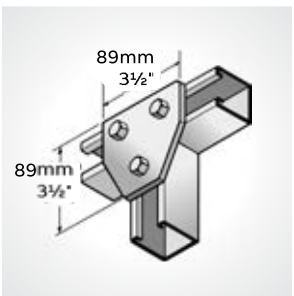
12



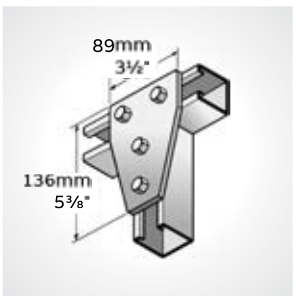
13



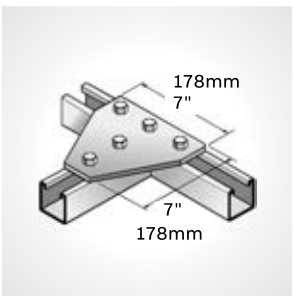
14



15



16



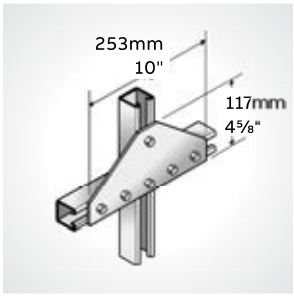
01 **NM-SFP-1S7**
02 **NM-SFP-1S9**
03 **NM-SFP-2S**
04 **NM-SFP-3S**
05 **NM-SFP-4S**
06 **NM-SFP-5S**
07 **NM-SFP-3HL**
08 **NM-SFP-4HL**
09 **NM-SFP-4HT**
10 **NM-SFP-5HX**
11 **NM-SFP-3HCG**
12 **NM-SFP-4HCG**
13 **NM-SFP-5HCG**
14 **NM-SFP-3HTG**
15 **NM-SFP-4HTG**
16 **NM-SFP-5HTG**

NOTE: Based on individual applications, changes may be required on dimension and thickness of material. All fittings are ¼" (6mm) thick unless specified otherwise. All holes are drilled to accept ⅜" and ½" bolts with washers. Not supplied with hardware.

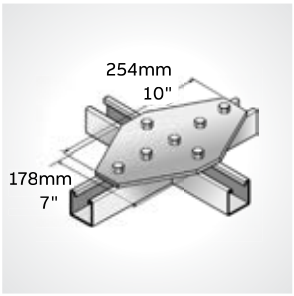
Nonmetallic - Strut systems

Superstrut™ fittings and brackets

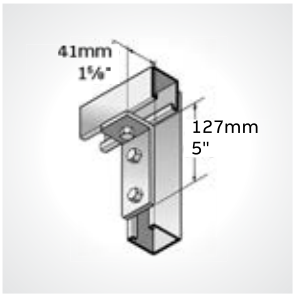
01*



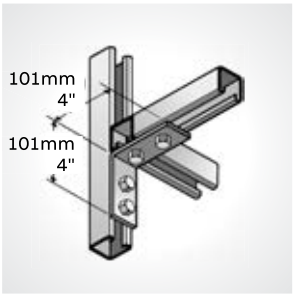
02*



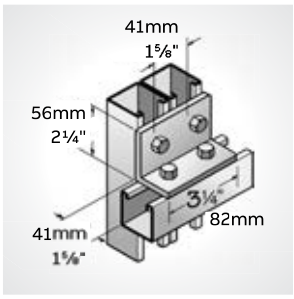
03*



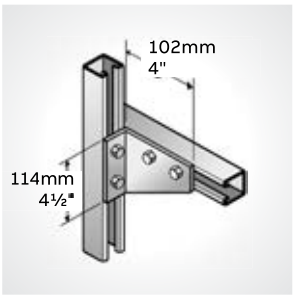
04*



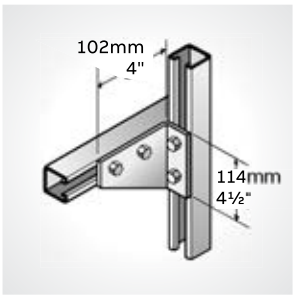
05*



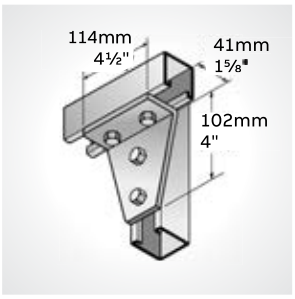
06*



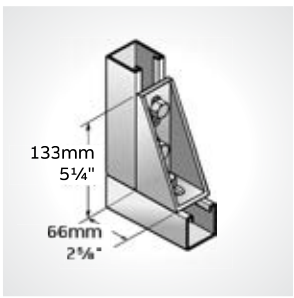
07*



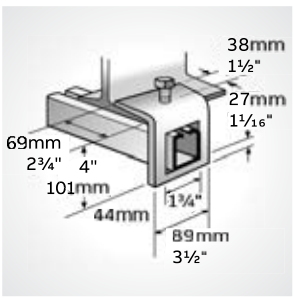
08*



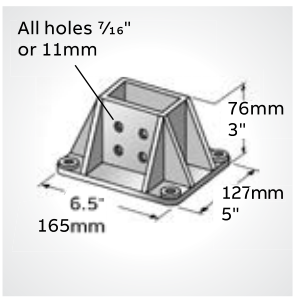
09



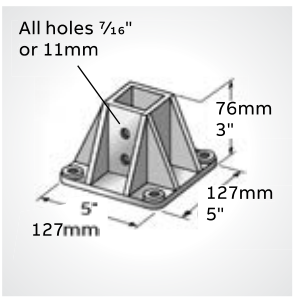
10



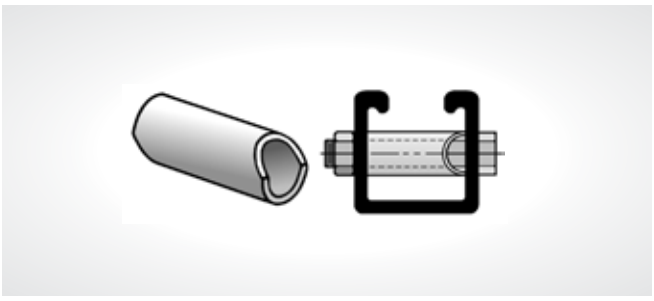
11



12



13



01 **NM-SFP-6HTG**

02 **NM-SFP-7HXG**

03 **NM-SFP-3VL**

04 **NM-SFP-4VL**

05 **NM-SFP-4VLD**

06 **NM-SFP-4VGL**

07 **NM-SFP-4VGR**

08 **NM-SFP-4VTG**

09 **NM-SFP-3CB**

10 **NM-SWC-158**

11 **NM-SSV-DBASE**

12 **NM-SSV-SBASE**

13 **NM-SCSP-158**

* Items 2 thru 8 (FRP angle components) will not support tensile loads or forces.

NOTE: Based on individual applications, changes may be required on dimension and thickness of material. All fittings are ¼" (6mm) thick unless specified otherwise. All holes are drilled to accept ⅜" and ½" bolts with washers. Not supplied with hardware.

Nonmetallic - Strut systems

Nonmetallic threaded hardware

Hex head bolt

Cat. No.	Thread size	Bolt length (in)	Design load (lb)	Design load N	Max. torque in - lb	Max. torque N - m	Weight / C (lb)	Weight / C (g)
NM-F516100	5/16" - 18	5/16 x 1	190	845	30	3.4	0.4	181
NM-F516114	5/16" - 18	5/16 x 1 1/4	190	845	30	3.4	0.4	181
NM-F38100	3/8" - 16	3/8 x 1	300	1334	45	5.1	0.9	408
NM-F38114	3/8" - 16	3/8 x 1 1/4	300	1334	45	5.1	1.1	499
NM-F38212	3/8" - 16	3/8 x 2 1/2	300	1334	45	5.1	1.5	680
NM-F12100	1/2" - 13	1/2 x 1	490	2180	110	12.4	1.4	635
NM-F12114	1/2" - 13	1/2 x 1 1/4	490	2180	110	12.4	1.8	816
NM-F12212	1/2" - 13	1/2 x 2 1/2	490	2180	110	12.4	3.7	1678

Safety factor of 3 on design load.

All-thread rod

Cat. No.	Thread size	Height (in)	Height (mm)	Weight / C (lb)	Weight / C (g)
NM-F38HN	3/8" - 16	21/64	8	0.69	136
NM-F12HN	1/2" - 13	7/16	11	0.69	318
NM-F58HN	5/8" - 11	35/64	14	0.69	635

NOTE: 3/4" and 1" sizes are available.
Standard lengths are 4 ft. and 8 ft. Example: NM-F38AT-4.

Hex nut

Cat. No.	Thread size	Design load (lb)	Design load N	Max. torque in - lb	Max. torque N - m	Weight / C (lb)	Weight / C (g)
NM-F38AT	3/8" - 16	425	1890	45	5.1	0.08	36
NM-F12AT	1/2" - 13	750	3336	110	12.4	0.13	59
NM-F58AT	5/8" - 11	950	4226	230	26	0.21	95

Safety factor of 3 on design load. NOTE: 3/4" and 1" sizes are available.

Nonmetallic - Strut systems

Nonmetallic threaded hardware

All-thread rod hex nut

Cat. No.	Thread size	Height (in)	Height (mm)	Weight / C (lb)	Weight / C (g)
NM-F38ATHN	⅜" - 16	¾	19	0.8	376
NM-F12ATHN	½" - 13	⅞	22	1.7	771

Rod coupler

Cat. No.	Thread size	Weight / C (lb)	Weight / C (kg)
NM-FRC38	⅜" - 16	7.4	3.36
NM-FRC12	½" - 13	11.3	5.13
NM-FRC58	⅝" - 11	16.7	7.57

¾" and 1" sizes are available.

Nonmetallic - Strut systems

Nonmetallic pipe hangers, brackets and beam clamps

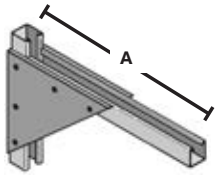
Clevis hangers

Cat. No.	Nominal pipe size (in)	Nominal pipe size (mm)	Max. O.D. range (in)	Max. O.D. range (mm)	Hanger rod size	Design load (lb)	Design load N
NM-SCH200	2	50	2½	63	½ - 13	90	0.40
NM-SCH212	2½	65	3¼	82	½ - 13	120	0.54
NM-SCH300	3	80	3⅞	98	½ - 13	160	0.71
NM-SCH400	4	100	5	127	⅝ - 11	250	1.12
NM-SCH600	6	150	7	177	⅝ - 11	400	1.79
NM-SCH800	8	200	9	228	⅝ - 11	450	2.01
NM-SCH1000	10	250	11⅜	289	⅝ - 11	500	2.24
NM-SCH1200	12	300	13½	342	⅝ - 11	600	2.69

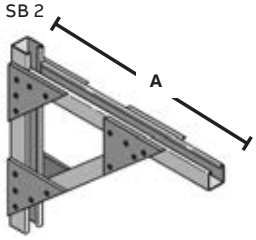
Safety factor of 3 on design loads at 120°F (49°C). Insulation may be required at high temperatures.
Order hanger rods and nuts separately.

Support brackets

SB 1



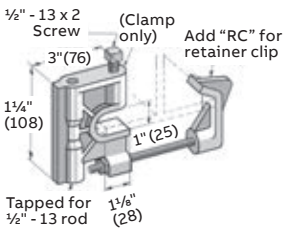
SB 2



Cat. No.*	Dimension "A" (in)	Dimension "A" (mm)	Design load (lb)	Design load N
NM-SB1-06P	10	250	1400	6.22
NM-SB1-09P	13	330	1000	4.45
NM-SB1-12P	16	406	800	3.56
NM-SB1-18P	22	559	675	3.00
NM-SB1-24P	28	711	450	2.00
NM-SB2-24P	28	711	750	3.33
NM-SB2-30P	34	863	750	3.33
NM-SB2-30P	40	1016	750	3.33

*Substitute "V" for "P" when vinylester resin is needed.
Design loads based on uniform loading with a safety factor of 3.

Beam clamps



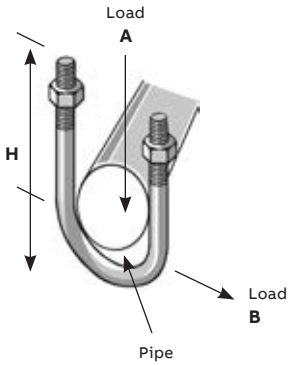
Cat. No.	Description	Design load (lb/ft)	Design load (kg/m)
NM-SBC	Beam clamp	800	3.56
NM-SBC-RC	Beam clamp with retainer clip	800	3.56

Safety factor of 3 on design load.

Nonmetallic - Strut systems

Nonmetallic pipe hangers and hardware

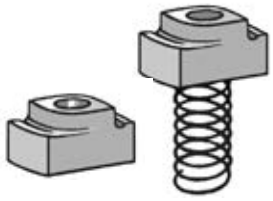
U-bolt



Cat. No.	Nominal pipe size (in)	Nominal pipe size (mm)	H height (in)	Design load A (lb)	Design load A N	Design load B (lb)	Design load B N	Max. torque in - lb	Max. torque N - m	Weight / C (lb)	Weight / C (kg)
NM-FUB050	½	15	2.41	300	1334	150	667	30	3.4	3.5	1.59
NM-FUB075	¾	20	2.60							3.9	1.77
NM-FUB100	1	25	2.85							4.4	2.00
NM-FUB114	1¼	32	3.16							4.8	2.18
NM-FUB112	1 ½	40	3.47							5.2	2.36
NM-FUB200	2	50	4.18	600	2669	200	890	60	6.8	7.7	3.49
NM-FUB212	2½	65	4.68							10.2	4.63
NM-FUB300	3	80	5.31							12.6	5.72
NM-FUB312	3½	90	5.81							15.1	6.85
NM-FUB400	4	100	6.31							17.6	7.98

Safety factor of 3 on design load.

Channel nut



Cat. No.	Thread size	Pull-out (lb)	Pull-out N	Slip resistance (lb)	Slip resistance N	Max. torque in - lb	Max. torque N - m	Weight / C (lb)	Weight / C (kg)
NM-FCN38	⅜" - 16	300	1334	150	667	300	22.6	2.3	1.04
NM-FCN12	½" - 13								
FCN38WO	⅜" - 16	300	1334	150	667	300	22.6	2.3	1.04
FCN12WO	½" - 16								

Safety factor of 3 on design load. NOTE: ¼" and 5/16" sizes are available.

Flat washer

Cat. No.	Hole size (in)	Weight / C (lb)	Weight / C (g)
NM-F38W	⅜	0.5	227
NM-F12W	½		
NM-F58W	⅝		
NM-F34W	¾		
NM-F100W	1		

Nonmetallic - Strut systems

Sealant

Kit contents
- Resin
- Catalyst
- Stir stick and applicator

Brush-on resin seal kit

Cat. No.	Description
NM-RSK-QT	946 ml

To reseal fiberglass after field modifications.
Vinylester resin.

Spray sealant
- Spray acrylic to reseal fiberglass after field modifications.

Spray sealant

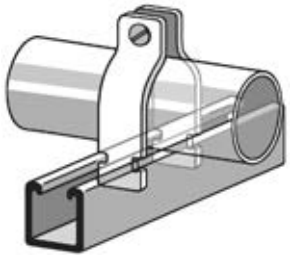
	Cat. No.	Description
	NM-CLEAR-1215	12 fl. oz. can

Should be used for top coating polyester applications only.
Not recommended to seal vinylester.

Nonmetallic - Strut systems

Pipe clamps

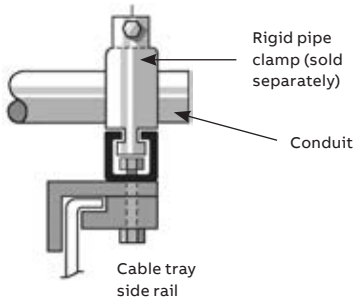
Rigid pipe clamp



Cat. No.	Nominal pipe size (in)	Nominal pipe size (mm)	Design load (lb)	Design load (kg)	Max. Torque N	Max. Torque (in - lb)	Max. Torque (N - m)
NM-SRPC050	½	12.7	300	136	1.33	10	1.13
NM-SRPC075	¾	19.1					
NM-SRPC100	1	25.4					
NM-SRPC114	1¼	31.8					
NM-SRPC112	1½	38.1					
NM-SRPC200	2	50.8					
NM-SRPC212	2½	63.5					
NM-SRPC300	3	76.2					
NM-SRPC312	3½	88.9					
NM-SRPC400	4	101.6					

Safety factor of 3 on design load.

Conduit swivel clamp



Cat. No.	Description
NM-SCSC-(CTD)	Conduit swivel clamp

Cable tray designation (CTD) required. (Ex. 6CP series designates 6" deep polyester resin). Pipe clamps are a separate order item.

Nonmetallic - Strut systems

Channel framing loading

Loading information

Beam loads: The charts below list the total allowable uniform load for various simple spans based on a minimum safety factor of 2.
If the load is concentrated at center span, multiply the load by 0.5 and the corresponding deflection by 0.8.

Channel framing loading – Beam and column data: Polyester and vinyl ester resin base

Beam span in / (mm)	Cat. No.	Maximum allowable uniform beam load		Deflection @ Maximum allowable uniform beam load		Uniform load @ Maximum deflection = 0.25 In (6mm)		Uniform load @ Maximum Deflection = 0.50 In (13mm)		Maximum allowable column load Lbs (kg)
		Poly lb (kg)	Vinyl lb (kg)	Poly lb (kg)	Vinyl (kg)	Poly lb (kg)	Vinyl lb (kg)	Poly lb (kg)	Vinyl lb (kg)	
12 (304.8)	NM-SSP-100	790 (358)	990 (449)	0.11 (3)	0.12 (3)	–	–	–	–	2550 (1156)
	NM-SSP-158	1720 (780)	2150 (975)	0.07 (2)	0.07 (2)	–	–	–	–	3650 (1655)
	NM-SSP-158-D	5080 (2301)	6350 (2880)	0.04 (1)	0.04 (1)	–	–	–	–	7300 (3111)
18 (457)	NM-SSP-100	530 (240)	670 (304)	0.24 (6)	0.27 (7)	–	620 (281)	–	–	2350 (1066)
	NM-SSP-158	1150 (521)	1440 (653)	0.15 (4)	0.17 (4)	–	-	–	–	3370 (1528)
	NM-SSP-158-D	5080 (2301)	4240 (1923)	0.09 (2)	0.10 (2)	–	–	–	–	6740 (3058)
24 (609.6)	NM-SSP-100	400 (181)	500 (227)	0.43 (11)	0.48 (12)	240 (109)	270 (122)	–	–	2070 (939)
	NM-SSP-158	860 (390)	1080 (490)	0.27 (7)	0.30 (8)	810 (367)	910 (412)	–	–	2960 (1342)
	NM-SSP-158-D	2540 (1152)	3180 (1442)	0.16 (4)	0.17 (4)	–	–	–	–	5920 (2685)
30 (762)	NM-SSP-100	320 (145)	400 (181)	0.67 (17)	0.75 (19)	120 (54)	140 (63)	240 (109)	270 (122)	1710 (775)
	NM-SSP-158	690 (313)	870 (394)	0.42 (11)	0.48 (12)	410 (186)	460 (209)	–	–	2450 (1111)
	NM-SSP-158-D	2040 (925)	2550 (1156)	0.24 (6)	0.27 (7)	2000 (907)	2350 (1066)	–	–	4900 (2222)
36 (914.4)	NM-SSP-100	270 (122)	340 (154)	0.98 (25)	1.10 (28)	70 (31)	80 (36)	140 (63)	160 (72)	1260 (571)
	NM-SSP-158	580 (263)	730 (331)	0.61 (15)	0.69 (19)	240 (109)	270 (122)	480 (217)	540 (245)	1800 (816)
	NM-SSP-158-D	1700 (771)	2130 (966)	0.35 (9)	0.39 (10)	1220 (553)	1370 (621)	–	–	3600 (1633)
42 (1066.8)	NM-SSP-100	230 (104)	290 (131)	1.32 (34)	1.49 (38)	50 (22)	55 (25)	100 (45)	115 (52)	920 (417)
	NM-SSP-158	490 (222)	620 (281)	0.82 (21)	0.92 (23)	150 (68)	170 (77)	300 (136)	340 (154)	1320 (598)
	NM-SSP-158-D	1460 (662)	1830 (830)	0.48 (12)	0.62 (16)	770 (349)	870 (394)	1510 (650)	1720 (530)	2640 (1197)
48 (1219.2)	NM-SSP-100	200 (91)	250 (113)	1.72 (44)	1.92 (49)	30 (13)	25 (16)	60 (27)	70 (31)	700 (317)
	NM-SSP-158	430 (195)	540 (245)	1.07 (27)	1.20 (30)	100 (45)	115 (52)	200 (90)	230 (104)	1010 (458)
	NM-SSP-158-D	1270 (576)	1590 (721)	0.62 (16)	0.69 (17)	520 (236)	590 (267)	1040 (471)	1170 (780)	2020 (916)
60 (1524)	NM-SSP-100	160 (72)	200 (91)	2.68 (68)	2.99 (76)	20 (9)	23 (10)	40 (18)	45 (20)	180 (81)
	NM-SSP-158	350 (158)	400 (200)	1.70 (43)	1.91 (48)	60 (27)	70 (32)	120 (54)	135 (61)	260 (118)
	NM-SSP-158-D	1020 (462)	1280 (580)	0.97 (25)	1.09 (28)	270 (122)	310 (140)	540 (245)	610 (276)	520 (235)
72 (1828.8)	NM-SSP-100	140 (63)	180 (81)	–	–	10 (4)	12 (5)	20 (9)	23 (10)	–
	NM-SSP-158	290 (131)	370 (168)	2.44 (62)	2.78 (71)	30 (13)	34 (15)	60 (27)	70 (32)	–
	NM-SSP-158-D	850 (385)	1070 (485)	1.40 (35)	1.57 (40)	160 (72)	180 (81)	320 (145)	360 (163)	–
84 (2133.6)	NM-SSP-100	120 (54)	150 (68)	–	–	NR	–	12 (5)	15 (7)	–
	NM-SSP-158	250 (113)	320 (145)	–	–	20 (9)	23 (10)	40 (18)	45 (20)	–
	NM-SSP-158-D	730 (331)	920 (417)	1.91 (48)	2.15 (55)	100 (45)	115 (52)	200 (90)	230 (104)	–
96 (2438.4)	NM-SSP-100	100 (45)	130 (59)	–	–	NR	–	–	–	–
	NM-SSP-158	220 (100)	250 (113)	–	–	13 (6)	15 (7)	26 (12)	30 (13)	–
	NM-SSP-158-D	640 (290)	800 (363)	2.50 (63)	2.79 (71)	70 (32)	80 (36)	140 (63)	160 (72)	–

Temperature	Design load multiplier
75°F (24°C)	100%
100°F (38°C)	90%
125°F (52°C)	78%
150°F (66°C)	68%
175°F (79°C)	60%
200°F (93°C)	52%

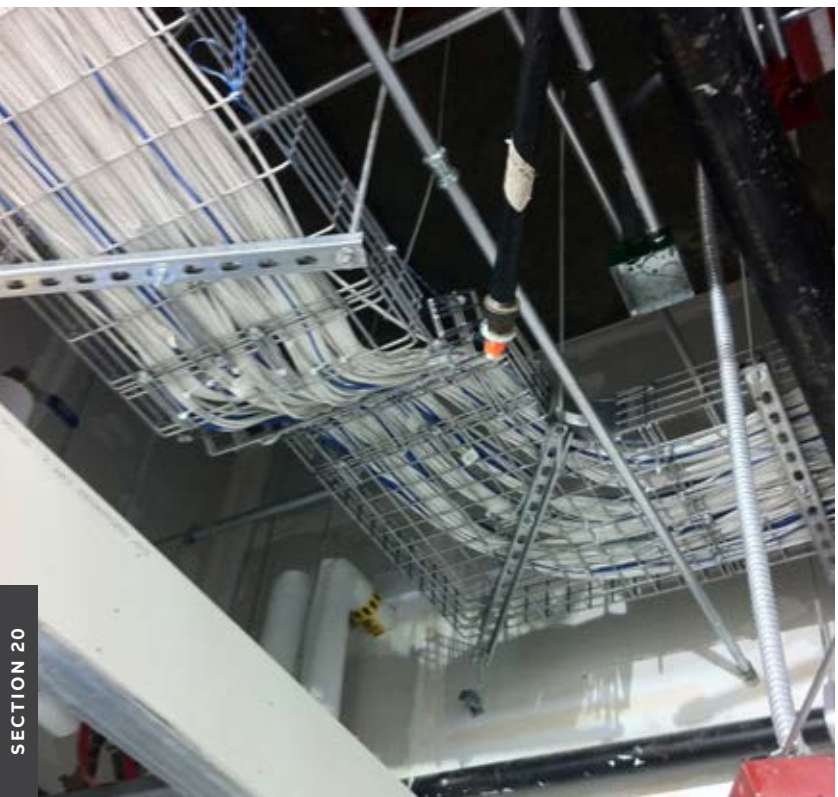
Recommended guideline
Published design loads are based on usage at 70°F (21°C) and must be reduced for continuous exposure to higher temperatures. Refer to the chart opposite for high temperature applications.

QuickTurn® basket tray system
Prefab fittings

QuickTurn® prefab fittings save you time and money

Cutting fittings for basket tray installation is labor-intensive and time-consuming. That's why, in addition to straight sections, T&B's QuickTurn® basket tray system features a full array of factory-made fittings for turns, tees and elevation changes to create a 100% NEC® compliant cable tray system. The QuickTurn® system eliminates on-site fabrication and bonding worries, enabling you to install fittings up to 80% faster. And that can make it easier for you to turn a profit.

- Reduces installation time by eliminating the need for cutting or bending.
- Ideal for commercial and industrial cable tray applications.
- Rugged steel construction with powder-coat or hot-dip galvanized finish.
- Also available in Type 304 and 316 stainless steel.
- Features built-in UL bonding and splicing.
- NEC® compliant with no bonding jumpers required.
- UL® Classified
- Made in the U.S.A.



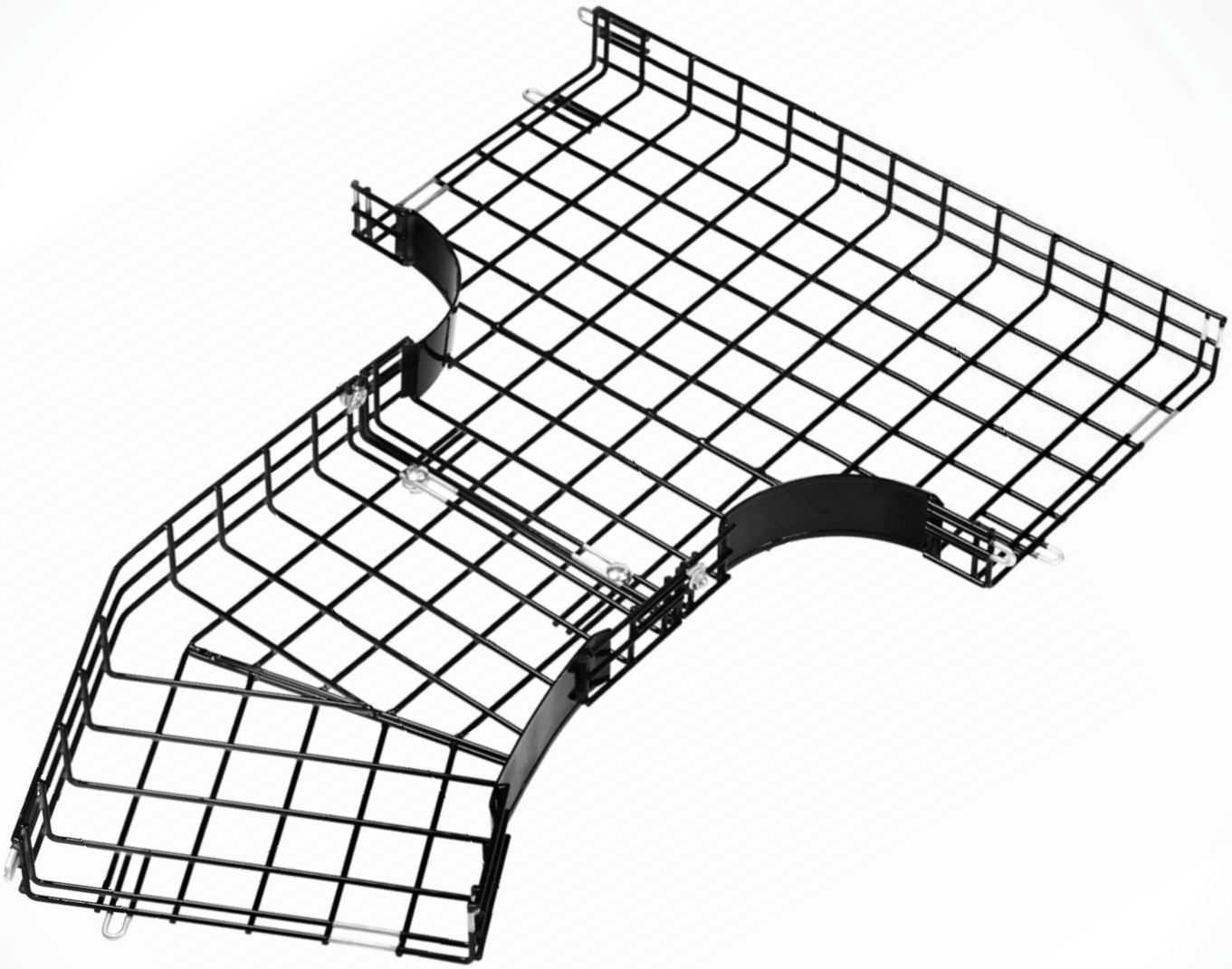
Fittings made simple
QuickTurn® factory-made straight sections and fittings make installation and cable running easier.

- One-tool installation – simplifies the entire process
- A fitting for every need – streamlines work flow and materials handling
- No cutting – eliminates waste
- Low-resistance corner plates – speed cable pulling

Safety built right in
QuickTurn® is made in America. Its high-strength steel basket design provides structural integrity, and its special postfabrication powder coat protects all welds from the elements. That makes QuickTurn® a great choice for demanding locations. It's available in five colors, too, to accommodate a wide range of color schemes and architectural applications. It can also be painted to match surrounding surfaces and is available with hotdip galvanized finish instead of powder coat or in stainless steel.

Need zinc-free components for your high-tech application? We can handle that, too.
Just ask!

A turn for the better
Where do you want to go? QuickTurn® can take you there, providing a higher level of versatility and control. Choose from a wide variety of configurations, sizes, colors and accessories, all backed by the support and service of Thomas & Betts. Whether you have a question about installation or simply need extra connecting hardware, we are ready to help.

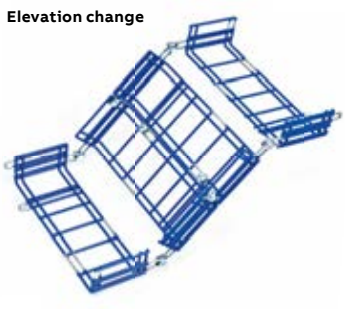


QuickTurn® standard basket tray system

Straight sections and fittings

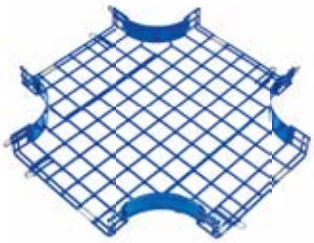
45° Fitting

Elevation change



Tee fitting

Cross fitting



TB-0520 Series straight sections and TB-0525 Series fittings

Tray size (H x W) (in)	(mm)	Straight section 10 ft (3.05m) length std. Cat. No.*	30° Fitting Cat. No.	45° Fitting Cat. No.
2 x 2	50.8 x 50.8	TB-0520-02-2-10-_	TB-0525-02-2-30-_	TB-0525-02-2-45-_
2 x 4	50.8 x 101.6	TB-0520-04-2-10-_	TB-0525-04-2-30-_	TB-0525-04-2-45-_
2 x 6	50.8 x 152.4	TB-0520-06-2-10-_	TB-0525-06-2-30-_	TB-0525-06-2-45-_
2 x 8	50.8 x 203.2	TB-0520-08-2-10-_	TB-0525-08-2-30-_	TB-0525-08-2-45-_
2 x 12	50.8 x 304.8	TB-0520-12-2-10-_	TB-0525-12-2-30-_	TB-0525-12-2-45-_
2 x 18	50.8 x 457.2	TB-0520-18-2-10-_	TB-0525-18-2-30-_	TB-0525-18-2-45-_
2 x 24	50.8 x 609.6	TB-0520-24-2-10-_	TB-0525-24-2-30-_	TB-0525-24-2-45-_
2 x 36	50.8 x 914.4	TB-0520-36-2-10-_	TB-0525-36-2-30-_	TB-0525-36-2-45-_
4 x 4	101.6 x 101.6	TB-0520-04-4-10-_	TB-0525-04-4-30-_	TB-0525-04-4-45-_
4 x 6	101.6 x 152.4	TB-0520-06-4-10-_	TB-0525-06-4-30-_	TB-0525-06-4-45-_
4 x 8	101.6 x 203.2	TB-0520-08-4-10-_	TB-0525-08-4-30-_	TB-0525-08-4-45-_
4 x 12	101.6 x 304.8	TB-0520-12-4-10-_	TB-0525-12-4-30-_	TB-0525-12-4-45-_
4 x 18	101.6 x 457.2	TB-0520-18-4-10-_	TB-0525-18-4-30-_	TB-0525-18-4-45-_
4 x 18	101.6 x 457.2	TB-0520-24-4-10-_	TB-0525-24-4-30-_	TB-0525-24-4-45-_
4 x 36	101.6 x 914.4	TB-0520-36-4-10-_	TB-0525-36-4-30-_	TB-0525-36-4-45-_
6 x 6	152.4 x 152.4 x 254	TB-0520-06-6-10-_	TB-0525-06-6-30-_	TB-0525-06-6-45-_
6 x 8	152.4 x 203.2 x 254	TB-0520-08-6-10-_	TB-0525-08-6-30-_	TB-0525-08-6-45-_
6 x 12	152.4 x 304.8 x 254	TB-0520-12-6-10-_	TB-0525-12-6-30-_	TB-0525-12-6-45-_
6 x 18	152.4 x 457.2 x 254	TB-0520-18-6-10-_	TB-0525-18-6-30-_	TB-0525-18-6-45-_
6 x 24	152.4 x 609.6 x 254	TB-0520-24-6-10-_	TB-0525-24-6-30-_	TB-0525-24-6-45-_
6 x 36	152.4 x 914.4	TB-0520-36-6-10-_	TB-0525-36-6-30-_	TB-0525-36-6-45-_

NOTE: All catalog numbers must be completed by adding a suffix from the material and finish suffixes chart in place of the -_ to specify the desired material/finish.
* 10' length is standard for QuickTurn® TB-0520 series basket tray straight sections. Replace -10- in the catalog number with the following codes to order other available lengths: -1- = 1 ft, -02- = 2 ft, -05- = 5 ft, -08- = 8 ft. Example: TB-0520-06-2-05-6 is a 6 W x 2 H x 5 ft. L straight section made of steel with a blue powder coat finish.

*Dimension Conversion Table:
2" = 50.8mm
4" = 101.6mm
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 457.2mm
24" = 609.6mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

**Dimension Conversion Table:
1 ft = 0.3m
2 ft = 0.6m
5 ft = 1.52m
8 ft = 2.44m
10 ft = 3.05m

UL® Classified and designed for standard commercial and industrial cable management and support.

- 3⁄16" (4.8mm) wire diameter in 2" x 4" grid pattern
- Widths of 2, 4, 6, 8, 12, 18, 24, 36" (*mm)
- Depths of 2, 4, 6" (*mm)
- Lengths of 1, 2, 5, 8, 10 ft (**m) - 10 ft is standard
- Fittings include tees, crosses, ells, elevation changes, 30° and 45° turns and reducers

Elevation change Cat. No.	Ell fitting Cat. No.	Tee fitting Cat. No.	Cross fitting Cat. No.
TB-0525-02-2-EC-_	TB-0525-02-2-L-_	TB-0525-02-2-T-_	TB-0525-02-2-X-_
TB-0525-04-2-EC-_	TB-0525-04-2-L-_	TB-0525-04-2-T-_	TB-0525-04-2-X-_
TB-0525-06-2-EC-_	TB-0525-06-2-L-_	TB-0525-06-2-T-_	TB-0525-06-2-X-_
TB-0525-08-2-EC-_	TB-0525-08-2-L-_	TB-0525-08-2-T-_	TB-0525-08-2-X-_
TB-0525-12-2-EC-_	TB-0525-12-2-L-_	TB-0525-12-2-T-_	TB-0525-12-2-X-_
TB-0525-18-2-EC-_	TB-0525-18-2-L-_	TB-0525-18-2-T-_	TB-0525-18-2-X-_
TB-0525-24-2-EC-_	TB-0525-24-2-L-_	TB-0525-24-2-T-_	TB-0525-24-2-X-_
TB-0525-36-2-EC-_	TB-0525-36-2-L-_	TB-0525-36-2-T-_	TB-0525-36-2-X-_
TB-0525-04-4-EC-_	TB-0525-04-4-L-_	TB-0525-04-4-T-_	TB-0525-04-4-X-_
TB-0525-06-4-EC-_	TB-0525-06-4-L-_	TB-0525-06-4-T-_	TB-0525-06-4-X-_
TB-0525-08-4-EC-_	TB-0525-08-4-L-_	TB-0525-08-4-T-_	TB-0525-08-4-X-_
TB-0525-12-4-EC-_	TB-0525-12-4-L-_	TB-0525-12-4-T-_	TB-0525-12-4-X-_
TB-0525-18-4-EC-_	TB-0525-18-4-L-_	TB-0525-18-4-T-_	TB-0525-18-4-X-_
TB-0525-24-4-EC-_	TB-0525-24-4-L-_	TB-0525-24-4-T-_	TB-0525-24-4-X-_
TB-0525-36-4-EC-_	TB-0525-36-4-L-_	TB-0525-36-4-T-_	TB-0525-36-4-X-_
TB-0525-06-6-EC-_	TB-0525-06-6-L-_	TB-0525-06-6-T-_	TB-0525-06-6-X-_
TB-0525-08-6-EC-_	TB-0525-08-6-L-_	TB-0525-08-6-T-_	TB-0525-08-6-X-_
TB-0525-12-6-EC-_	TB-0525-12-6-L-_	TB-0525-12-6-T-_	TB-0525-12-6-X-_
TB-0525-18-6-EC-_	TB-0525-18-6-L-_	TB-0525-18-6-T-_	TB-0525-18-6-X-_
TB-0525-24-6-EC-_	TB-0525-24-6-L-_	TB-0525-24-6-T-_	TB-0525-24-6-X-_
TB-0525-36-6-EC-_	TB-0525-36-6-L-_	TB-0525-36-6-T-_	TB-0525-36-6-X-_

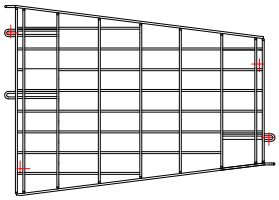
Ordering information

- Can be ordered with solid bottom plates (see page B-5) or dividers (see page B-7) factory-installed with no additional change for installation.
- Straight sections and fittings ship with wall connecting hardware included
- See page B-8 for load/fill capacity and weight charts.

QuickTurn® standard basket tray system

Materials and finishes, reducers, bottom plates and top covers

Ruducers – Material and finish suffixes



Cat. No. Suffix	Color	Example
Steel with powder coat finish in color specified		
-1	Yellow	TB-0525-06-2-30-1
-2	White	TB-0525-06-2-30-2
-3	Chrome	TB-0525-06-2-30-3
-4	Black	TB-0525-06-2-30-4
-5	Red	TB-0525-06-2-30-5
-6	Blue	TB-0525-06-2-30-6
-10	Orange	TB-0525-06-2-30-10
Steel with hot-dip galvanized finish		
-HDG	N/A	TB-0525-06-2-30-HDG
Type 304 stainless steel		
-SS	N/A	TB-0525-06-2-30-SS
Type 316 stainless steel		
-SS316	N/A	TB-0525-06-2-30-SS316

TB-0529 Series reducers

Tray width reduction (in)	Tray width reduction (mm)	2" (50.8mm) Tray height Cat. No.	4" (101.6mm) Tray height Cat. No.	6" 152.5mm) Tray height Cat. No.
6 to 4	152.4 to 101.6	TB-0529-06X04-2-_	TB-0529-06X04-4-_	TB-0529-06X04-6-_
8 to 6	203.2 to 152.4	TB-0529-06X06-2-_	TB-0529-06X06-4-_	TB-0529-06X06-6-_
12 to 8	304.8 to 203.2	TB-0529-06X08-2-_	TB-0529-06X08-4-_	TB-0529-06X08-6-_
18 to 12	457.2 to 304.8	TB-0529-06X12-2-_	TB-0529-06X12-4-_	TB-0529-06X12-6-_
24 to 18	609.6 to 457.2	TB-0529-06X18-2-_	TB-0529-06X18-4-_	TB-0529-06X18-6-_

NOTE: All catalog numbers must be completed by adding a suffix from the material and finish suffixes chart in place of the -_ to specify the desired material/finish.

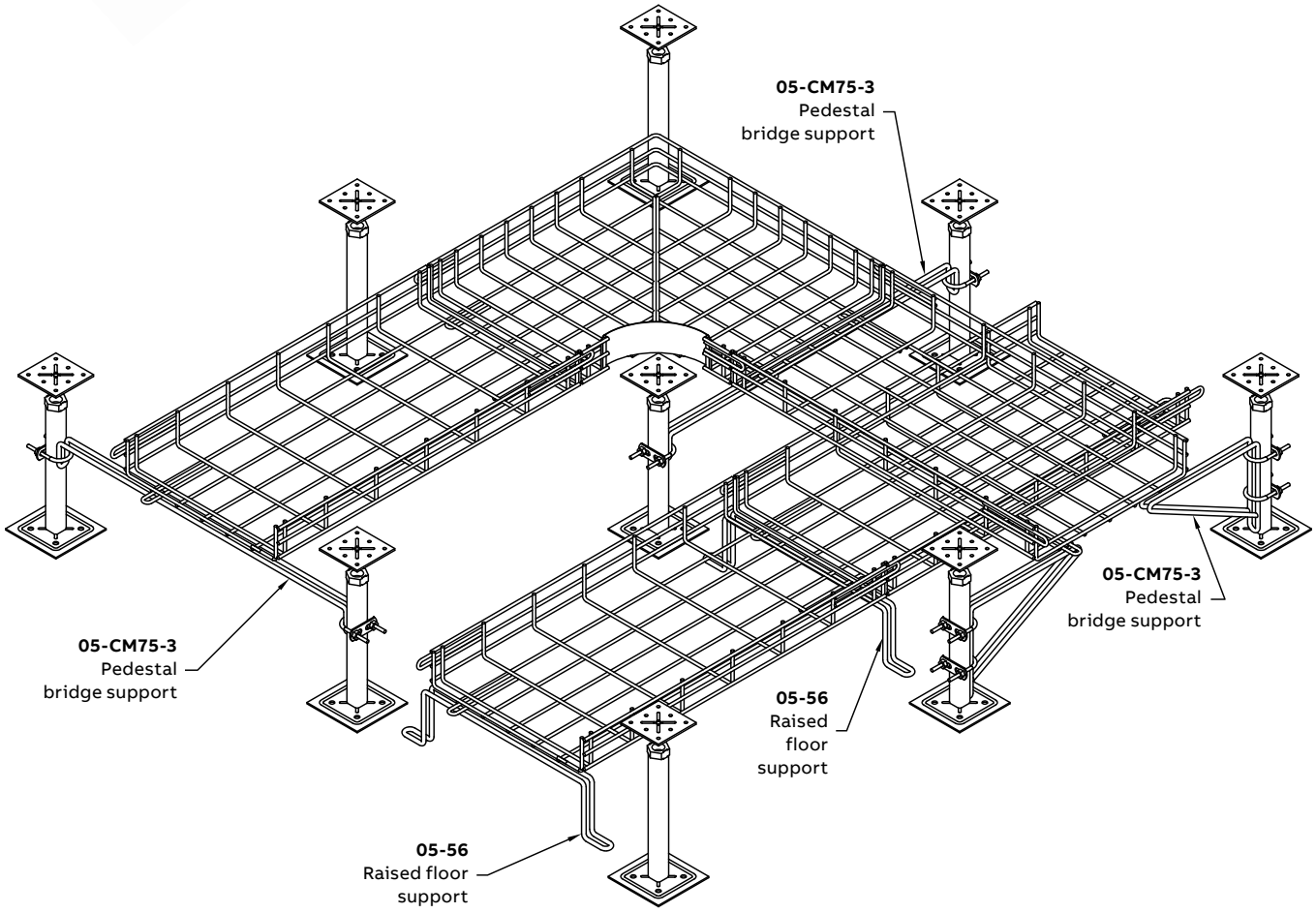
QuickTurn® standard basket tray system

Solid bottom plates and top covers

Solid bottom plates and top covers

	Size (L x W) (in)	Size (L x W) (mm)	Solid bottom plate Cat. No.	Top cover Cat. No.
Top covers 	59 to 6	1,498.6 to 152.4	TB-052-06BP-_	TB-052-06TC-_
	59 to 8	1,498.6 to 203.2	TB-052-08BP-_	TB-052-08TC-_
	59 to 12	1,498.6 to 304.8	TB-052-12BP-_	TB-052-12TC-_
	59 to 18	1,498.6 to 457.2	TB-052-18BP-_	TB-052-18TC-_
	59 to 24	1,498.6 to 609.6	TB-052-24BP-_	TB-052-24TC-_
	59 to 36	1,498.6 to 914.4	TB-052-36BP-_	TB-052-36TC-_
Solid bottom plate 				

NOTE: All catalog numbers must be completed by adding a suffix from the material and finish suffixes chart in place of the -_ to specify the desired material/finish.



QuickTurn® standard basket tray system

Mounting supports and accessories

Under-floor mount support

Trapeze support

Cable tray support 'C' bracket

Wall-mount support

Cable tray support 'L' bracket

Hold-down bracket

QuickTurn® mounting supports

For tray width (W)		Center support kit for ¼" (6.4mm) rod Cat. No.	Center support kit for ⅜" (9.5mm) rod Cat. No.	Trapeze support kit for ¼" (6.4mm)rod Cat. No.	Trapeze support kit for ⅜" (9.5mm) rod Cat. No.
(in)	(mm)				
2	50.8	TB-0550-02	–	–	–
4	101.6	TB-0550-04	–	–	–
6	152.4	TB-0550-06	TB-0551-06	TB-0552-06	TB-0553-06
8	203.2	TB-0550-08	TB-0551-08	TB-0552-08	TB-0553-08
12	304.8	TB-0550-12	TB-0551-12	TB-0552-12	TB-0553-12
18	457.2	TB-0550-18*	TB-0551-18*	TB-0552-18*	TB-0553-18*
24	609.6	TB-0550-24*	TB-0551-24*	TB-0552-24*	TB-0553-24*
36	914.4	TB-0550-36*	TB-0551-36*	TB-0552-36*	TB-0553-36*

* Kits for 18" (457.2mm) and wider tray are built from heavy-duty framing strut to accommodate heavier loads.
** Wall-mount support bracket standard height is 4" (101.6mm); contact your T&B representative for ordering information on other available heights.

Raised-floor pedestal bridge support kit

Cable tray divider

Hol-down bracket

Waterfall

Offset extension loop

Splice washer kit

steel rod coupling

Other QuickTurn® basket tray accessories

Cat. No.	Description
TB-05-CM75-3	Raised-floor pedestal bridge support kit (includes one bridge support and two U-clamps)
TB-05-2-500983-_*	Divider for 2" (50.8mm) H tray, 2" (50.8mm) H x 5' (1.52m) L (includes two splice washer assembly kits)
TB-05-2-500984-_*	Divider for 4" (101.6mm) H tray, 2" (50.8mm) H x 5' (1.52m) L (includes two splice washer assembly kits)
TB-05-2-500982-_*	Hold-down bracket (included with all wall, floor and ceiling support kits – order extras only)
TB-0559-04-_*	Waterfall, 3/16" (4.8mm) wire diameter, 4" (101.6mm) W**
TB-05-CM58	Offset extension loop (allows lateral adjustment of up to 12" (304.8mm) during installation of QuickTurn® sections
TB-0526-00726	Splice washer kit (includes one ¼" (6.4mm) - 20 bolt washer, one splice washer and one flanged hex nut, all zinc-plated steel)
H119-1/4-EGC	Steel rod coupling, ¼" (6.4mm) - 20
H119-3/8-EGC	Steel rod coupling, ⅜" (9.5mm) - 16
E147 1/4	Flat steel washer, ¼" (6.4mm)
E147 3/8	Flat steel washer, ⅜" (9.5mm)
TB-CM68	Carriage bolt, 5/16" (7.9mm) - 18 x ¾" (19.1mm)
TB-CM72	Carriage bolt, 5/16" (7.9mm) -18 x 1¼" (31.8mm)

* Catalog number must be completed by adding a suffix from the material and finish suffixes chart in place of the -_ to specify the desired material/finish.
** Other widths available; contact your T&B representative for ordering information.

Pedestal bridge support

Hold-down bracket

U-clamp

Heavy-duty equipment support

Angled pedestal support

Center support

Under-floor mount support bracket Cat. No.	Wall-mount support bracket** Cat. No.	Cable tray support L-style bracket Cat. No.	Cable tray support C-style bracket Cat. No.
TB-0556-02	TB-0557-02	–	–
TB-0556-04	TB-0557-04	–	–
TB-0556-06	TB-0557-06	TB-05-CM18-06	TB-05-CM24-06
TB-0556-08	TB-0557-08	TB-05-CM18-08	TB-05-CM24-08
TB-0556-12	TB-0557-12	TB-05-CM18-12	TB-05-CM24-12
TB-0556-18	TB-0557-18*	TB-05-CM18-18	TB-05-CM24-18
TB-0556-24	TB-0557-24*	TB-05-CM18-24	TB-05-CM24-24
TB-0556-36	TB-0557-36*	TB-05-CM18-36	TB-05-CM24-36

Flat washer

Carriage bolt

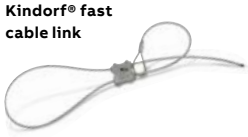
Finned nut

6" Protective steel tubing for ¼" and ⅜" threaded rod

Blackburn® split-bolt grounding connector

Kindorf® fast set beam clamp

Kindorf® fast cable link



Installation ratchet

Basket tray cutting tool

Cat. No.	Description
TB-CM65	Finned nut, ¼" (6.4mm) - 20
TB-CM67	Finned nut, 5⁄16" (7.9mm) - 20
TB-CM66	Finned nut, ⅜" (9.5mm) - 16
TB-CM69	6" Protective steel tubing for ¼" (6.4mm) and ⅜" (9.5mm) threaded rod
9H	Blackburn® split-bolt grounding connector
FBC-1	Kindorf® fast set beam clamp for ¼" (6.4mm) - 20 Rod (250 lb (113.4kg) load rating)
FBC-2	Kindorf® fast set beam clamp for ⅜" (9.5mm) - 16 Rod (600 lb (272.2kg) load rating)
FCL-3-5	Kindorf® fast cable link ceiling suspension system with loop end, 5'L (3⁄16" (4.8mm) wire diameter, 200 lb (90.7kg) load rating)
FCL-3-10	Kindorf® fast cable link ceiling suspension system with loop end, 10'L (3⁄16" (4.8mm) wire diameter, 200 lb (90.7kg) load rating)
FCL-3-5-LH	Kindorf® fast cable link ceiling suspension system with hook end, 5'L (3⁄16" (4.8mm) wire diameter, 200 (90.7kg) load rating)
FCL-3-10-LH	Kindorf® fast cable link ceiling suspension system with hook end, 10'L (3⁄16" (4.8mm) wire diameter, 200 lb (90.7kg) load rating)
TB-CM99	Installation ratchet
TB-0520-600728	Basket tray cutting tool

QuickTurn® TB-0520 Series standard basket tray system

Technical information

QuickTurn® TB-0520 Series standard basket tray system load and fill capacities

Tray size (H x W x L)		Fill area		Max. no. of 0.30" O.D. cables at 50% fill ratio	Approx. max. cable weight (lbs/ft)	Tested load capacity at 5'L (lbs/ft)	Tested load capacity at 10'L (lbs/ft)
(in)	(mm)	(in^2)	(cm^2)				
2 x 6 x 10	50.8 x 152.4 x 254	13.2	85.16	130	4.290	46	14
2 x 8 x 10	50.8 x 203.2 x 254	17.6	113.55	174	5.742	29	16
2 x 12 x 10	50.8 x 304.8 x 254	26.4	170.32	260	8.580	34	19
2 x 18 x 10	50.8 x 457.2 x 254	39.6	255.48	394	13.002	43	22
2 x 24 x 10	50.8 x 609.6 x 254	52.8	340.64	527	17.391	52	23
2 x 36 x 10	50.8 x 914.4 x 254	79.2	510.97	788	*	*	*
4 x 6 x 10	101.6 x 152.4 x 254	25.2	162.58	253	8.349	68	22
4 x 8 x 10	101.6 x 203.2 x 254	33.6	216.77	331	10.923	95	35
4 x 12 x 10	101.6 x 304.8 x 254	50.4	325.16	496	16.368	120	50
4 x 18 x 10	101.6 x 457.2 x 254	75.6	487.74	751	24.783	124	52
4 x 24 x 10	101.6 x 609.6 x 254	100.8	650.32	998	32.934	128	55
4 x 36 x 10	101.6 x 914.4 x 254	151.2	975.48	1502	*	*	*
6 x 6 x 10	152.4 x 152.4 x 254	37.2	240.00	370	12.210	110	48
6 x 8 x 10	152.4 x 203.2 x 254	49.6	320.00	493	16.269	108	47
6 x 12 x 10	152.4 x 304.8 x 254	74.4	480.00	739	24.387	124	52
6 x 18 x 10	152.4 x 457.2 x 254	111.6	720.00	1106	36.498	128	55
6 x 24 x 10	152.4 x 609.6 x 254	148.8	960.00	1444	47.652	154	59
6 x 36 x 10	152.4 x 914.4 x 254	223.2	1440.00	2212	*	*	*

* Contact Technical Services for 36" tray weights and capacities.
NEC® Article 392.9 (B). (NEC and National Electric Code are registered trademarks of the National Fire Protection Association, Inc.).

QuickTurn® TB-0520 Series standard basket tray system weights

Tray size (H x W)		1 ft (0.30m) Length		2 ft (0.60m) Length		5 ft (1.52m) Length		8 ft (2.44m) Length		10 ft (3.05m) Length	
(in)	(mm)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)	(lbs)	(kg)
2 x 6	50.8 x 152.4	1.46	0.66	2.46	1.12	5.45	2.47	8.43	3.82	10.44	4.74
2 x 8	50.8 x 203.2	1.65	0.75	2.75	1.25	6.20	2.81	9.60	4.35	11.90	5.40
2 x 12	50.8 x 304.8	2.03	0.92	3.45	1.56	7.21	3.27	11.95	5.42	14.81	6.72
2 x 18	50.8 x 457.2	2.20	1.00	4.55	2.06	10.08	4.57	15.59	7.07	19.30	8.75
2 x 24	50.8 x 609.6	3.26	1.48	5.53	2.51	12.33	5.59	17.10	7.76	23.66	10.73
2 x 36	50.8 x 914.4	*	*	*	*	*	*	*	*	*	*
4 x 6	101.6 x 152.4	1.63	0.74	2.74	1.24	6.01	2.73	9.27	4.20	11.41	5.18
4 x 8	101.6 x 203.2	1.84	0.83	3.07	1.39	6.47	2.93	10.45	4.74	12.93	5.86
4 x 12	101.6 x 304.8	2.21	1.00	3.73	1.69	8.22	3.73	12.80	5.81	15.84	7.18
4 x 18	101.6 x 457.2	2.89	1.31	4.83	2.19	10.65	4.83	16.43	7.45	20.33	9.22
4 x 24	101.6 x 609.6	3.45	1.56	5.81	2.64	12.89	5.85	19.95	9.05	24.96	11.32
4 x 36	101.6 x 914.4	*	*	*	*	*	*	*	*	*	*
6 x 6	152.4 x 152.4	2.40	1.09	4.15	1.88	9.40	4.26	14.63	6.64	18.16	8.24
6 x 8	152.4 x 203.2	2.59	1.17	4.48	2.03	10.16	4.61	15.81	7.17	19.61	8.89
6 x 12	152.4 x 304.8	2.78	1.26	4.76	2.16	10.72	4.86	16.65	7.55	20.65	9.37
6 x 18	152.4 x 457.2	3.45	1.56	5.86	2.66	13.09	5.94	20.28	9.20	25.13	11.40
6 x 24	152.4 x 609.6	4.02	1.82	6.85	3.11	15.35	6.96	23.80	10.80	29.50	13.38
6 x 36	152.4 x 914.4	*	*	*	*	*	*	*	*	*	*

* Contact Technical Services for 36" tray weights and capacities.

QuickTurn® basket tray system installation – Take installation in a whole new direction

The QuickTurn® basket tray system should be installed starting at the originating head end (electrical or telecommunications closet). Once the pathway has been established, field measurements should be taken before installing the tray. If the straight sections are installed first, it will cause unnecessary field adjustments.

Each section has loops at each end. When the sections are connected, the loop on the bottom aligns under the galvanized masked area of the adjoining section. The loop on the side slides into the outside loop guide.

Each QuickTurn® basket tray section ships with all required connection hardware. Once trays are aligned, install the 5⁄16" (7.9mm) carriage bolt (included) through the loops with the threaded end to the outside of the tray. Install and tighten the flanged nuts with a ½" (12.7mm) socket. This reduces the chances of damage when pulling the cables.

QuickTurn® wire-grid basket tray systems require only one tool and very few accessory items for installation. Prefabricated fittings/intersections eliminate the need for cutting and fabrication in the field to reduce labor time by 50% or more. With centerhung, trapeze, wall- and floor-mount accessories, QuickTurn® basket tray is prepared to handle your toughest installations.

Aluminium
Straight sections

Straight sections

Straight sections are available in aluminium in a range of finishes. Straight aluminium sections utilise a 7" (177.8mm) splice plate and the fittings have tangents at the extremities. This style offers enhanced aesthetics and rigidity to the end-user.

Aluminium
Pre-fabricated aluminium section with side rails connected by rungs.

Features
- 6063 T6 Aluminium alloy construction
- H-beam side rail design with nominal height 4" (101.6mm) to 7" (177.8mm)
- Loading height 3" (76.2mm) to 6" (152.4mm)
- Extra wide rung design with continuous open slot, reverse position every second rung and Ty-Rap® cable tie slots ⅝" x ⅝" (1.58mm x 1.58mm) on 1" (25.4mm) centres
- Snap-in splice plates included with straight section
- Choice of two styles of fitting side rail (U-style & H-style)

Load rating/NEMA Class - Aluminium

Side rail height (in)	(mm)	Series	Load depth (nominal) (in)	(mm)	NEMA Class
4	101.6	MAH-1-4	3	76.2	12A
		MAH-3-4			12A
		MAH-5-4			20B
5	127	MAH-2-5	4	101.6	12C
		MAH-4-5			20B
6	152.4	MAH-1-6	5	127	12C
		MAH-3-6			20B
		MAH-4-6			20C
		MAH-5-6			20C
		MAH-6-6			20C
7	177.8	MAH-3-7	6	152.4	20C

NOTE: These ratings are also used in Mexico.

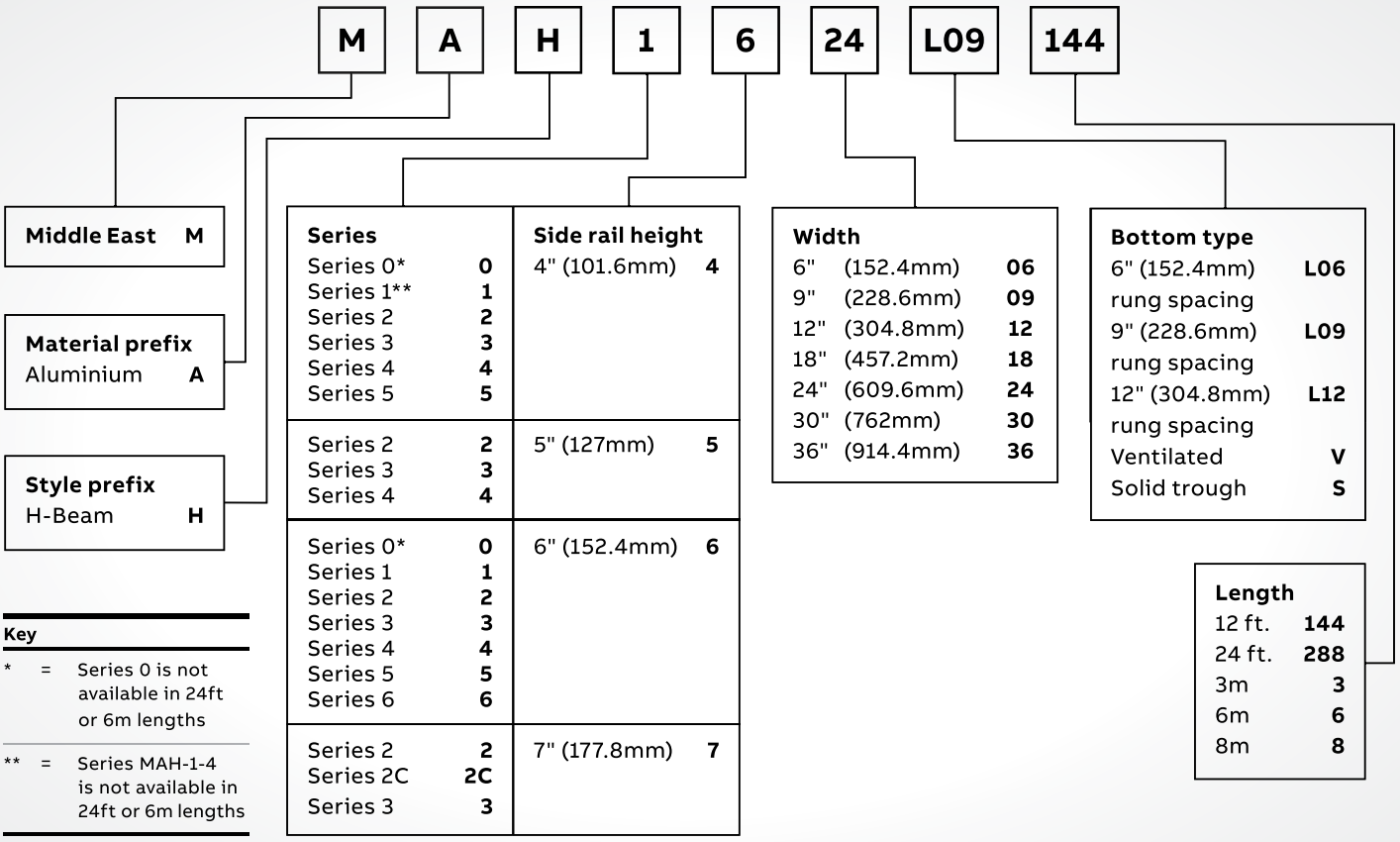
Product selection - straight section

How to create catalogue numbers
Straight section part numbers are created using a range of selection criteria.

Determine the most suitable cable ladder type based on the parametres 1 to 5 shown right, then use the tables on the following page to create the exact part number for your needs.

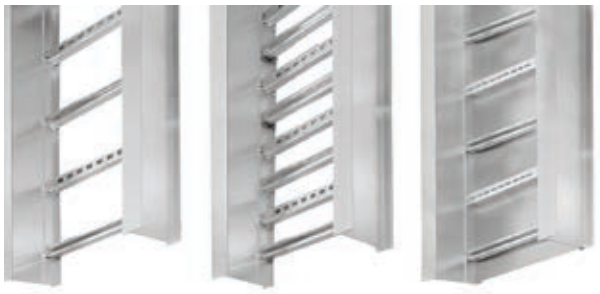
Method
1. Select the material best suited to the installation environment.
2. Define the ladder series to NEMA class/loadings (see table below for aluminium loadings).
4. Specify the bottom type based on the cables/spacing required
5. Establish the length of cable ladder in metres or inches

Note: All straight section types are suitable for use with both U-style and H-style fitting systems.



Aluminium straight sections

4" (101.6mm) Straight sections / Series 1-4 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

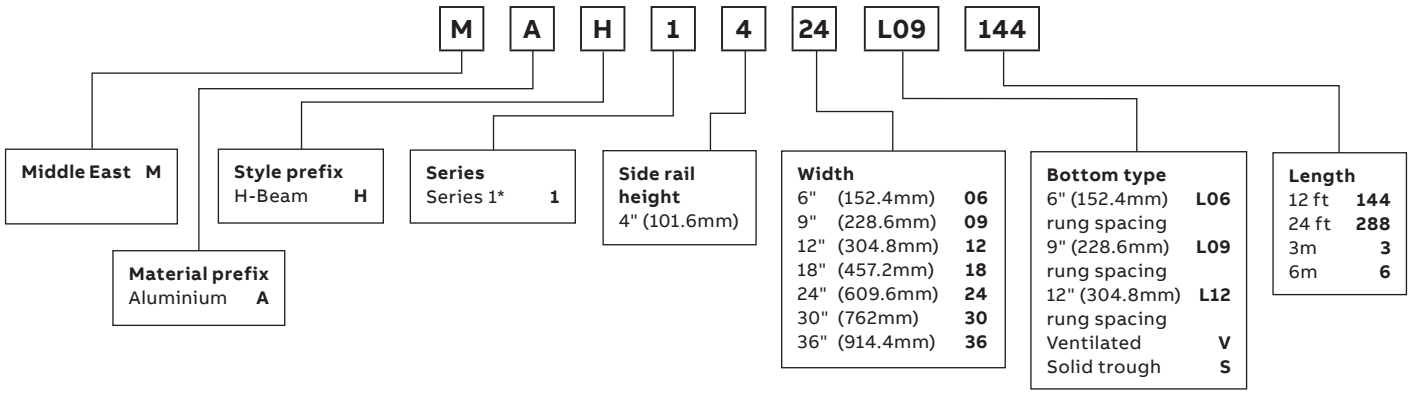
Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

4" Straight sections / Series 1-4 – Ladder, ventilated and solid trough

		Classifications	Support span ft. (m)							
Series		**NEMA**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**	**12' (3.66m)**	**14' (4.27m)**	**16' (4.88m)**	**18' (5.49m)**	**20' (6.10m)**
MAH1-4	**Load (lb)/ft)**	12B, 8C	239	134	86	60	–	–	–	–
	Load (kg)/m)		355.67	199.41	127.98	89.29	–	–	–	–
	Deflection (in)		0.318	0.565	1.884	1.272	–	–	–	–
	Deflection (mm)		8.08	14.35	47.85	32.31	–	–	–	–
	Deflection factor		0.001	0.004	0.010	0.021	–	–	–	–

T&B Aluminium cable tray is composed of two distinct systems. H-Style and U-Style. These systems are interchangeable.

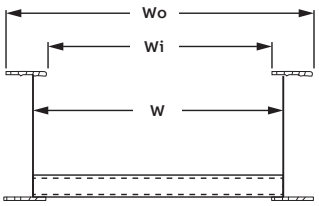
Straight section number selection



* Series 1 is not available in 288" or 6 metre lengths

For fittings, consult pages 404 - 457.

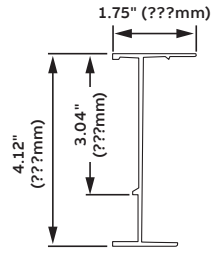
—
Dimensions



			MAH1-4			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	6	152.4	7.46	189.48	4.88	123.95
	9	228.6	10.46	265.68	7.88	200.15
	12	304.8	13.46	341.88	10.88	276.35
	18	457.2	19.46	494.28	16.88	428.75
	24	609.6	25.46	646.68	22.88	581.15
	30	762	31.46	799.08	28.88	733.55
	36	914.4	37.46	951.48	34.88	885.95

Technical specifications
Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

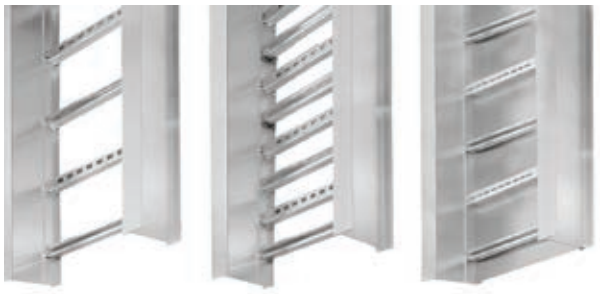
—
Load ratings: 1.5 safety factor

			Classifications		
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®
MAH1-4 	**MAH1-4**	Ix = 2.19"⁴ (91.15cm⁴) Sx = 1.05"³ (17.21cm³) Area = 0.91"² (5.87cm²)	12A, 8C	C/3 m	UL cross sectional area: 0.60"² (3.87cm²)

T&B Aluminium cable tray is composed of two distinct systems.
H-Style and U-Style. These systems are interchangeable.

Aluminium straight sections

4" (101.6mm) Straight sections / Series 3-4, 5-4 – Ladder, ventilated and solid trough



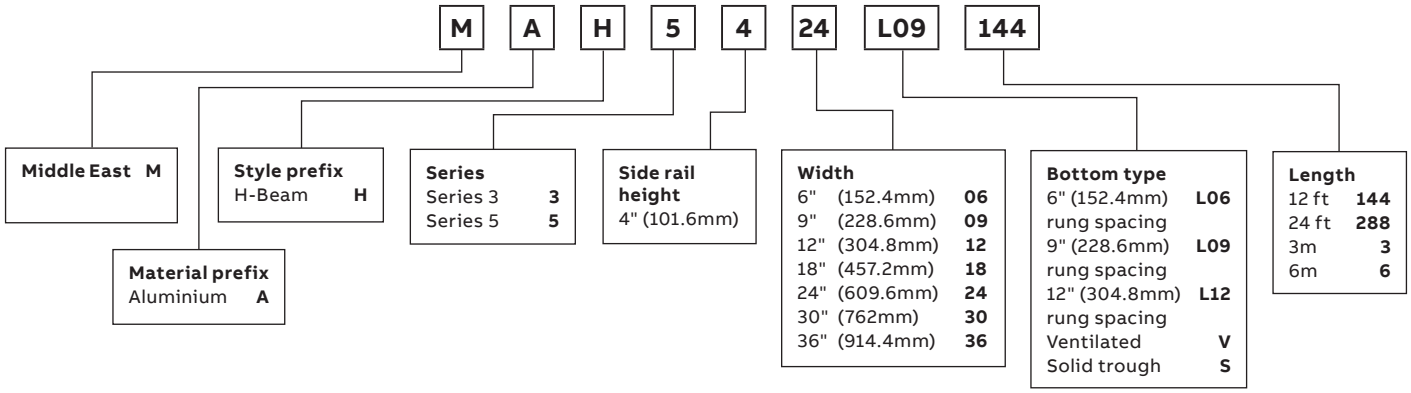
Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

4" Straight sections / Series 3-4, 5-4 – Ladder, ventilated and solid trough

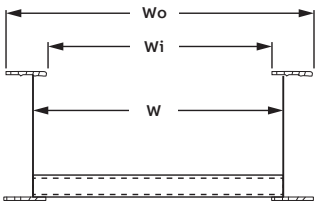
		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
MAH3-4	Load (lb)/ft)	12C, 16B	522	294	188	131	96	73	58	47
	Load (kg)/m)		776.82	437.52	279.78	194.95	142.86	108.64	86.31	69.94
	Deflection (in)		0.477	0.849	1.326	1.909	2.599	3.395	4.296	5.304
	Deflection (mm)		12.12	21.56	33.68	48.49	66.01	86.23	109.12	134.72
	Deflection factor		0.001	0.003	0.007	0.015	0.027	0.046	0.074	0.113
MAH5-4	Load (lb)/ft)	20B, 16C	867	488	312	217	159	122	96	78
	Load (kg)/m)		1290.24	726.22	464.31	322.93	236.62	181.56	142.86	116.08
	Deflection (in)		0.505	0.898	1.403	2.021	2.751	3.593	4.547	5.614
	Deflection (mm)		12.83	22.81	35.64	51.33	69.88	91.26	115.49	142.60
	Deflection factor		0.001	0.002	0.004	0.009	0.017	0.029	0.047	0.072

Straight section number selection



For fittings, consult pages 404 - 457.

Dimensions



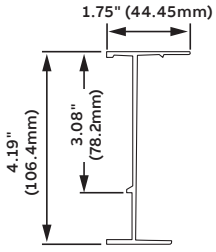
			MAH3-4				MAH5-4			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	6	152.4	8.38	212.85	4.88	123.95	8.38	212.85	4.88	123.95
	9	228.6	11.38	289.05	7.88	200.15	11.38	289.05	7.88	200.15
	12	304.8	14.38	365.25	10.88	276.35	14.38	365.25	10.88	276.35
	18	457.2	20.38	517.65	16.88	428.75	20.38	517.65	16.88	428.75
	24	609.6	26.38	670.05	22.88	581.15	26.38	670.05	22.88	581.15
	30	762	32.38	822.45	28.88	733.55	32.38	822.45	28.88	733.55
	36	914.4	38.38	974.85	34.88	885.95	38.38	974.85	34.88	885.95

Technical specifications

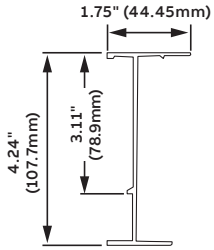
Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

MAH3-4



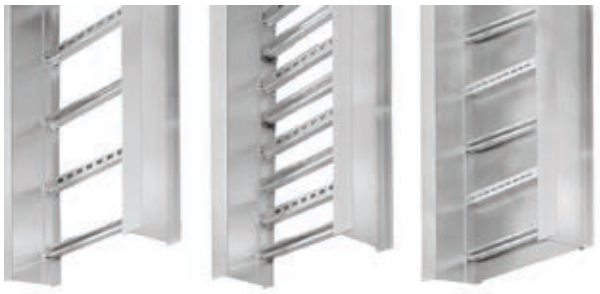
MAH5-4



	Side rail design factors 1 pair	Classifications		
Series		NEMA	CSA	UL®
MAH3-4	Ix = 3.44"⁴ (143.18cm⁴) Sx = 1.50"³ (24.58cm³) Area = 1.28"² (8.26cm²)	12C, 16B	D/6 m	UL cross sectional area: 1.00"² (6.45cm²)
MAH5-4	Ix = 5.32"⁴ (221.44cm⁴) Sx = 2.36"³ (38.67cm³) Area = 1.93"² (12.45cm²)	20B, 16C	E/6 m	UL cross sectional area: 1.50"² (9.68cm²)

Aluminium straight sections

5" (127mm) Straight sections / Series 2-5, 4-5 – Ladder, ventilated and solid trough



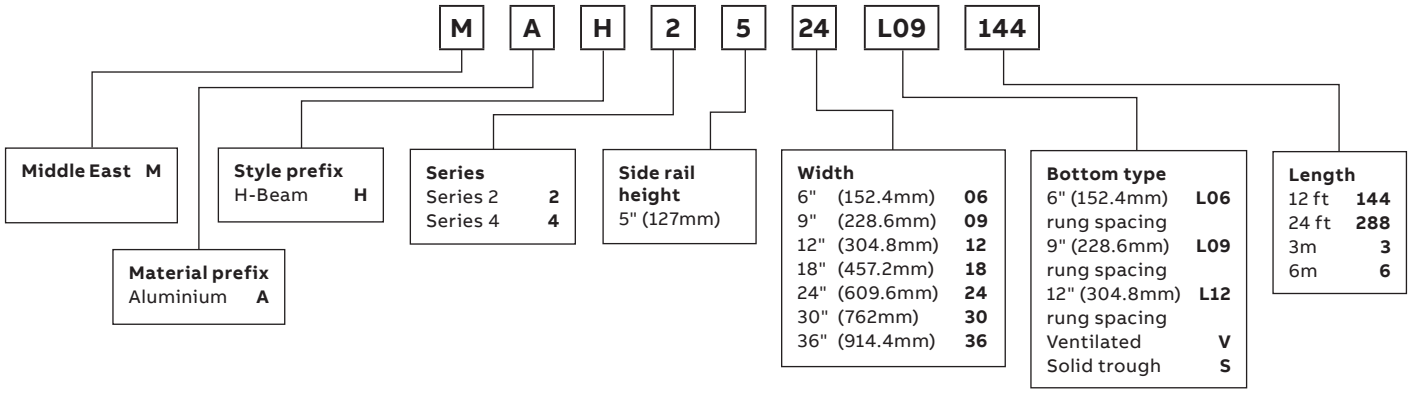
Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

5" Straight sections / Series 2-5, 4-5 – Ladder, ventilated and solid trough

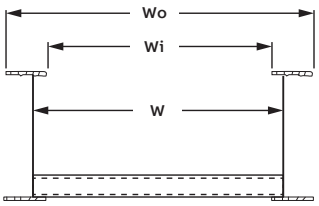
		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
MAH2-5	Load (lb)/ft)	12C, 16B	511	288	184	128	94	72	57	46
	Load (kg)/m)		760.45	428.60	273.82	190.49	139.89	107.15	84.83	68.46
	Deflection (in)		0.328	0.584	0.912	1.313	1.787	2.334	2.955	3.648
	Deflection (mm)		8.33	14.83	23.16	33.35	45.39	59.28	75.06	92.66
	Deflection factor		0.001	0.002	0.005	0.010	0.019	0.032	0.052	0.079
MAH4-5	Load (lb)/ft)	20B, 16C	844	475	304	211	155	119	94	76
	Load (kg)/m)		1256.01	706.88	452.40	314	230.67	177.09	139.89	113.10
	Deflection (in)		0.337	0.599	0.936	1.348	1.834	2.396	3.033	3.774
	Deflection (mm)		8.56	15.21	23.77	34.24	46.58	60.86	77.04	95.86
	Deflection factor		0.0004	0.001	0.003	0.006	0.012	0.020	0.032	0.049

Straight section number selection



For fittings, consult pages 404 - 457.

Dimensions



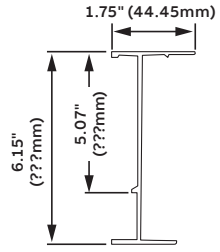
			MAH2-5				MAH4-5			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	6	152.4	8.39	213.11	4.89	124.21	8.45	214.63	4.95	125.73
	9	228.6	11.39	289.31	7.89	200.41	11.45	290.83	7.95	201.93
	12	304.8	14.39	365.51	10.89	276.61	14.45	367.03	10.95	278.13
	18	457.2	20.39	517.91	16.89	429.01	20.45	519.43	16.95	430.53
	24	609.6	26.39	670.31	22.89	581.41	26.45	671.83	22.95	582.93
	30	762	32.39	822.71	28.89	733.81	32.45	824.23	28.95	735.33
	36	914.4	38.39	975.11	34.89	886.21	38.45	976.63	34.95	887.73

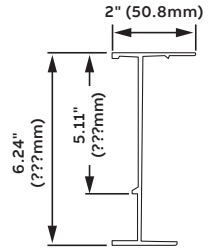
Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

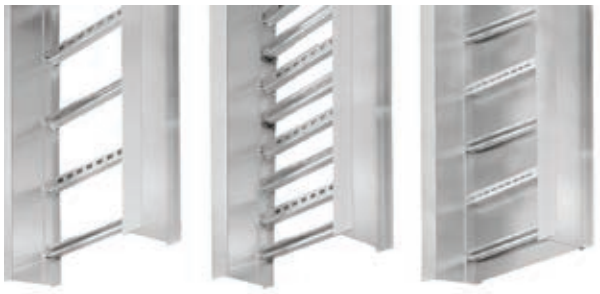
					Classifications
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®
MAH2-5	**MAH2-5**	Ix = 5.24"⁴ (218.11cm⁴) Sx = 1.90"³ (31.14cm³) Area = 1.38"² (8.9cm²)	12C, 16B	D/6 m	UL cross sectional area: 1.00"² (6.45cm²)
MAH4-5	**MAH4-5**	Ix = 7.65"⁴ (318.42cm⁴) Sx = 2.78"³ (45.56cm³) Area = 1.95"² (12.58cm²)	20B, 16C	E/6 m	UL cross sectional area: 1.50"² (9.68cm²)





Aluminium straight sections

6" (152.4mm) Straight sections / Series 1-6, 3-6 – Ladder, ventilated and solid trough



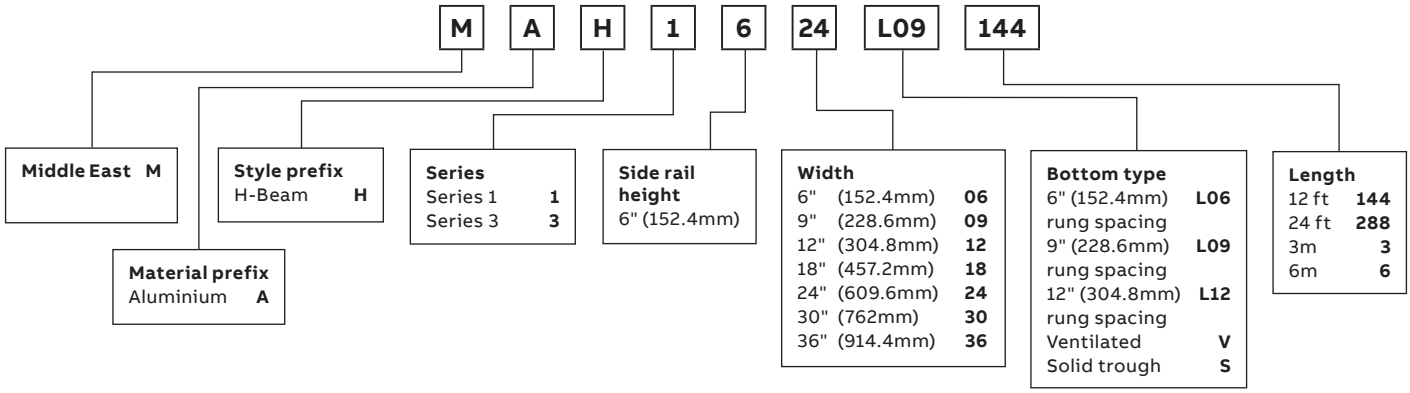
Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

6" Straight sections / Series 1-6, 3-6 – Ladder, ventilated and solid trough

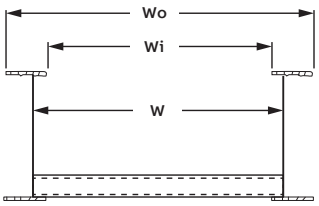
		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
MAH1-6	Load (lb)/ft)	12C, 16B	511	288	184	128	94	71	56	46
	Load (kg)/m)		760.45	428.59	273.82	190.49	139.89	105.66	83.34	68.46
	Deflection (in)		0.191	0.340	0.531	0.764	1.706	1.251	1.583	2.123
	Deflection (mm)		4.85	8.64	13.49	19.41	43.33	31.78	40.21	53.92
	Deflection factor		0.0004	0.001	0.003	0.006	0.018	0.018	0.028	0.046
MAH3-6	Load (lb)/ft)	20B, 16C	889	500	320	222	163	125	99	80
	Load (kg)/m)		1322.98	744.08	476.21	330.37	242.57	186.02	147.33	119.05
	Deflection (in)		0.199	0.353	0.552	0.794	1.061	1.386	1.755	2.166
	Deflection (mm)		5.05	8.97	14.02	20.17	26.95	35.20	44.58	55.02
	Deflection factor		0.0002	0.001	0.002	0.004	0.006	0.011	0.018	0.027

Straight section number selection



For fittings, consult pages 404 - 457.

Dimensions



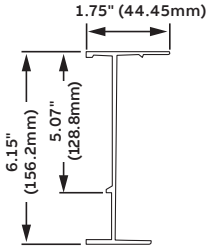
			MAH1-6				MAH3-6			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	6	152.4	8.37	212.6	4.87	123.7	8.89	225.8	4.89	124.2
	9	228.6	11.37	288.8	7.87	199.9	11.89	302	7.89	200.4
	12	304.8	14.37	365	10.87	276.1	14.89	378.2	10.89	276.6
	18	457.2	20.37	517.4	16.87	428.5	20.89	530.6	16.89	429
	24	609.6	26.37	669.8	22.87	580.9	26.89	683	22.89	581.4
	30	762	32.37	822.2	28.87	580.9	32.89	835.4	28.89	733.8
	36	914.4	38.37	974.6	34.87	885.7	38.89	987.8	34.89	886.2

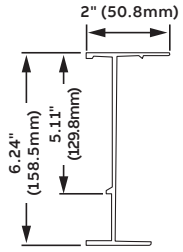
Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor*

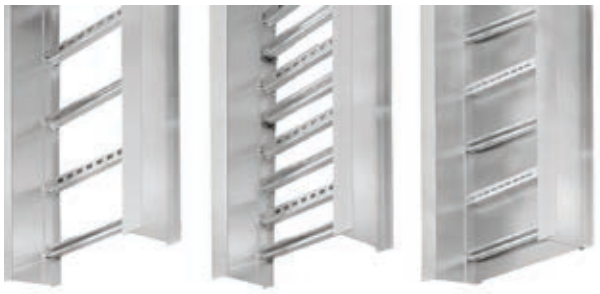
	Series	Side rail design factors 1 pair	Classifications NEMA	CSA	UL®
MAH1-6	**MAH1-6**	Ix = 8.47"⁴ (352.55cm⁴) Sx = 2.59"³ (42.44cm³) Area = 1.55"² (10cm²)	12C, 16B	D/6 m	UL cross sectional area: 1.00"² (6.45cm²)
MAH3-6	**MAH3-6**	Ix = 13.30"⁴ (553.59cm⁴) Sx = 3.95"³ (64.73cm³) Area = 2.16"² (13.94cm²)	20B, 16C	E/6 m	UL cross sectional area: 2.00"² (9.68cm²)





Aluminium straight sections

6" (152.4mm) Straight sections / Series 4-6, 5-6, 6-6, 7-6 – Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

6" Straight sections / Series 4-6, 5-6, 6-6, 7-6 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)										
Series		NEMA	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)	22' (6.70m)	24' (7.32m)	26' (7.92m)	28' (8.53m)	30' (9.14m)
MAH4-6	Load (lb)/ft)	20C	408	283	208	159	126	102	–	–	–	–	–
	Load (kg)/m)		607.17	421.15	309.54	236.62	187.51	2.98	–	–	–	–	–
	Deflection (in)		0.662	0.954	1.298	1.696	2.146	2.649	–	–	–	–	–
	Deflection (mm)		16.81	24.23	32.97	43.08	54.51	67.28	–	–	–	–	–
	Deflection factor		0.002	0.003	0.006	0.011	0.017	0.026	–	–	–	–	–
MAH5-6	Load (lb)/ft)	20C+	484	336	247	189	149	121	–	–	–	–	–
	Load (kg)/m)		720.27	500.02	367.58	281.26	221.74	180.07	–	–	–	–	–
	Deflection (in)		0.693	0.997	1.358	1.773	2.244	2.765	–	–	–	–	–
	Deflection (mm)		17.60	25.32	34.49	45.03	57.00	70.23	–	–	–	–	–
	Deflection factor		0.002	0.003	0.005	0.009	0.015	0.023	–	–	–	–	–
MAH6-6	Load (lb)/ft)	20C+	680	472	347	266	210	170	–	–	–	–	–
	Load (kg)/m)		1011.95	702.41	516.39	395.85	312.51	252.99	–	–	–	–	–
	Deflection (in)		0.812	1.169	1.592	2.079	2.631	3.249	–	–	–	–	–
	Deflection (mm)		20.62	29.69	40.44	52.81	66.83	82.52	–	–	–	–	–
	Deflection factor		0.001	0.003	0.005	0.008	0.014	0.021	–	–	–	–	–
MAH7-6	Load (lb)/ft)	20C+	–	–	–	–	208	169	139	117	110	86	75
	Load (kg)/m)		–	–	–	–	309.54	251.50	206.86	174.12	163.70	127.98	111.61
	Deflection (in)		–	–	–	–	2.241	2.767	3.348	3.985	4.676	5.424	6.226
	Deflection (mm)		–	–	–	–	56.92	70.28	85.04	101.22	118.77	137.77	158.14
	Deflection factor		–	–	–	–	0.011	0.016	0.024	0.034	0.047	0.063	0.083

Straight section number selection

M	A	H	5	6	24	L09	144

Middle East M

Material prefix
Aluminium **A**

Style prefix
H-Beam **H**

Series

Series 4	**4**
Series 5	**5**
Series 6	**6**
Series 7	**7**

Side rail height
6" (152.4mm)

Width

6" (152.4mm)	**06**
9" (228.6mm)	**09**
12" (304.8mm)	**12**
18" (457.2mm)	**18**
24" (609.6mm)	**24**
30" (762mm)	**30**
36" (914.4mm)	**36**

Bottom type

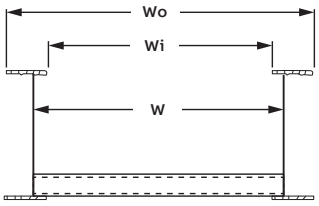
6" (152.4mm) rung spacing	**L06**
9" (228.6mm) rung spacing	**L09**
12" (304.8mm) rung spacing	**L12**
Ventilated	**V**
Solid trough	**S**

Length

12 ft	**144**
24 ft	**288**
3m	**3**
6m	**6**
8m	**8**

For fittings, consult pages 404 - 457.

Dimensions



		MAH4-6				MAH5-6			
W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
6	152.4	8.9	226.06	4.9	124.46	8.93	226.82	4.93	125.22
9	228.6	11.9	302.26	7.9	200.66	11.93	303.02	7.93	201.42
12	304.8	14.9	378.46	10.9	276.86	14.93	379.22	10.93	277.62
18	457.2	20.9	530.86	16.9	429.26	20.93	531.62	16.93	430.02
24	609.6	26.9	683.26	22.9	581.66	26.93	684.02	22.93	582.42
30	762	32.9	835.66	28.9	734.06	32.93	836.42	28.93	734.82
36	914.4	38.9	988.06	34.9	886.46	38.93	988.82	34.93	887.22
42	1,066.8	–	–	–	–	–	–	–	–

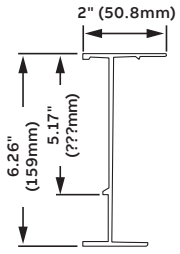
		MAH6-6				MAH7-6			
W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
6	152.4	9.01	228.85	5.01	127.25	8.86	225	4.86	123.4
9	228.6	12.01	305.05	8.01	203.45	11.86	301.2	7.86	199.6
12	304.8	15.01	381.25	11.01	279.65	14.86	377.4	10.86	275.8
18	457.2	21.01	533.65	17.01	432.05	20.86	529.8	16.86	174.2
24	609.6	27.01	686.05	23.01	584.45	26.86	682.2	22.86	580.6
30	762	33.01	838.45	29.01	736.85	32.86	834.6	28.86	733
36	914.4	39.01	990.85	35.01	889.25	38.86	987	34.86	885.4
42	1,066.8	–	–	–	–	44.86	1,139.4	40.86	1,037.8

Technical specifications

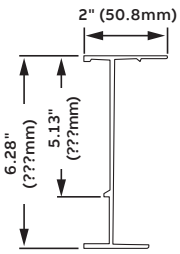
Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

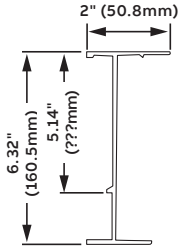
MAH4-6



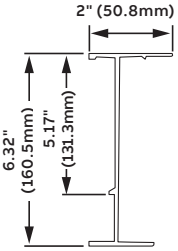
MAH5-6



MAH6-6



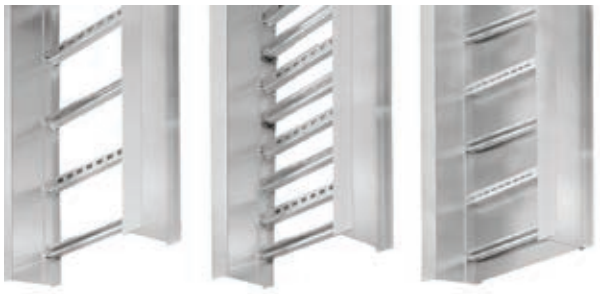
MAH7-6



			Classifications		
Series	Side rail design factors 1 pair		NEMA	CSA	UL®
MAH4-6	Ix = 13.86"⁴ (576.9cm⁴) Sx = 4.07"³ (66.7cm³) Area = 2.32"² (14.97cm²)		20C	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)
MAH5-6	Ix = 15.63"⁴ (650.57cm⁴) Sx = 4.66"³ (76.36cm³) Area = 2.68"² (17.29cm²)		Exceeds 20C	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)
MAH6-6	Ix = 18.84"⁴ (784.18cm⁴) Sx = 5.51"³ (90.29cm³) Area = 3.25"² (20.97cm²)		Exceeds 20C	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)
MAH7-6	Ix = 21.96"⁴ (914.04cm⁴) Sx = 6.31"³ (103.4cm³) Area = 3.82"² (24.65cm²)		Exceeds 20C	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)

Aluminium straight sections

7" (177.8mm) Straight sections / Series 3-7, 4-7, 1-8 – Ladder, ventilated and solid trough



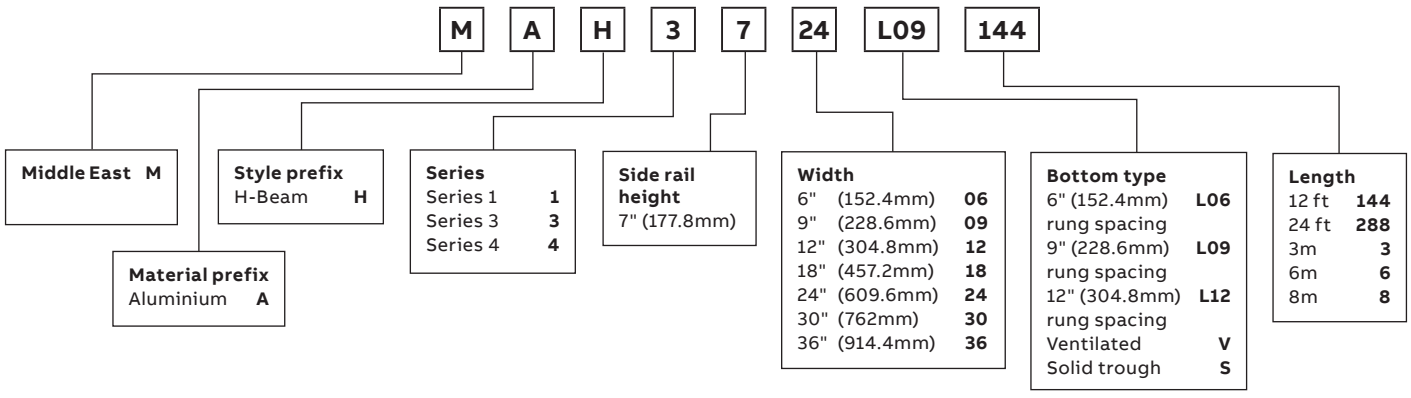
Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

7" Straight sections / Series 3-7, 4-7, 1-8 – Ladder, ventilated and solid trough

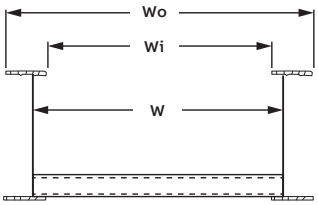
		Classifications	Support span ft (m)										
Series		NEMA	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)	22' (6.70m)	24' (7.32m)	26' (7.92m)	28' (8.53m)	30' (9.14m)
MAH3-7	Load ( )/ft)	20C+	524	364	267	205	162	131	–	–	–	–	–
	Load (kg)/m)		779.80	541.69	397.34	305.07	241.08	194.95	–	–	–	–	–
	Deflection (in)		0.466	0.671	0.913	1.192	1.509	1.863	–	–	–	–	–
	Deflection (mm)		11.84	17.04	23.19	30.28	38.33	47.32	–	–	–	–	–
	Deflection factor		0.001	0.002	0.003	0.006	0.009	0.014	–	–	–	–	–
MAH4-7	Load ( )/ft)	20C+	–	–	–	–	300	243	201	169	144	124	108
	Load (kg)/m)		–	–	–	–	446.45	361.62	299.12	251.50	214.30	184.53	160.72
	Deflection (in)		–	–	–	–	1.925	2.376	2.876	3.422	4.016	4.658	5.347
	Deflection (mm)		–	–	–	–	48.90	60.35	73.05	86.92	102	118.31	135.81
	Deflection factor		–	–	–	–	0.006	0.010	0.014	0.020	0.028	0.038	0.050

Straight section number selection



For fittings, consult pages 404 - 457.

Dimensions

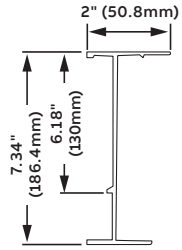


			MAH3-7				MAH4-7			
	W (in)	W (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)	Wo (in)	Wo (mm)	Wi (in)	Wi (mm)
	6	152.4	9	228.6	5	127	8.86	225	4.86	123.4
	9	228.6	12	304.8	8	203.2	11.86	301.2	7.86	199.6
	12	304.8	15	381	11	279.4	14.86	377.4	10.86	275.8
	18	457.2	21	533.4	17	431.8	20.86	529.8	16.86	174.2
	24	609.6	27	685.8	23	584.2	26.86	682.2	22.86	580.6
	30	762	33	838.2	29	736.6	32.86	834.6	28.86	733
	36	914.4	39	990.6	35	889	38.86	987	34.86	885.4
	42	1,066.8	–	–	–	–	44.86	1,139.4	40.86	1,037.8

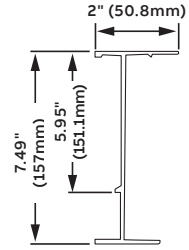
Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor

				Classifications	
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®
MAH3-7 	**MAH3-7**	Ix = 25.32"⁴ (1053.9cm⁴) Sx = 6.35"³ (104.06cm³) Area = 3.30"² (21.29cm²)	Exceeds 20C	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)
	MAH4-7	Ix = 36.81"⁴ (1532.15cm⁴) Sx = 9.08"³ (148.79cm³) Area = 4.63"² (29.87cm²)	Exceeds 20C	Exceeds E/6 m	UL cross sectional area: 2.00"² (12.90cm²)

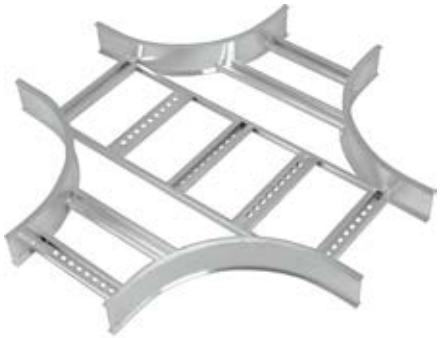
MAH4-7



Aluminium
Horizontal fittings

—
01 H-style 90˚
horizontal bend
—
02 H-style horizontal cross
—
03 H-style C90˚
vertical bend

—
01



—
02

—
03

*NOTE: The U-style and H-style systems are interchangeable.

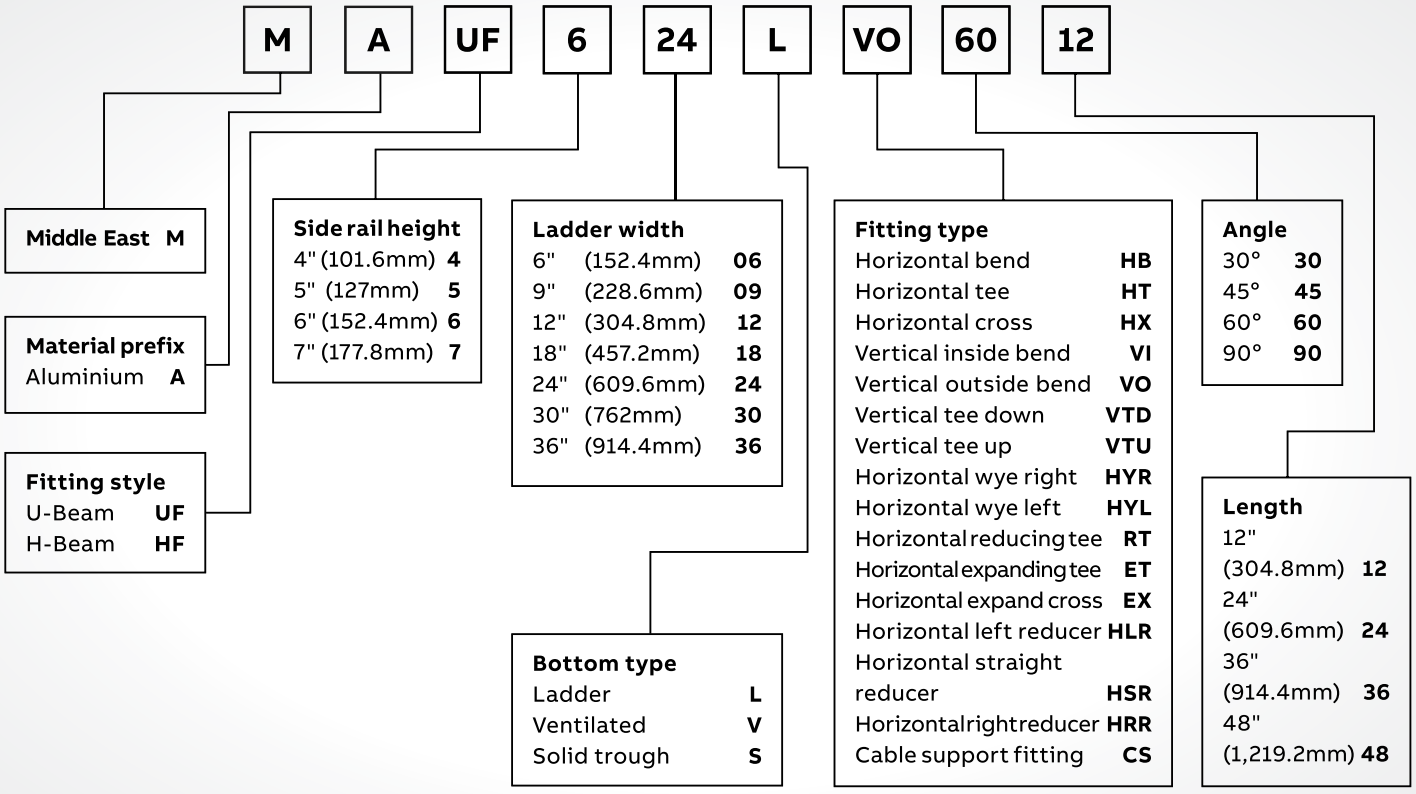
Product selection - fittings

How to create catalogue numbers
Fitting part numbers are based on a range of selection criteria, dependent on the type of fitting and the role undertaken in the cable ladder system.

Over the following pages, the selection criteria for each fitting type is established in table form.

Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown. Images of fittings are provided to assist with selection.

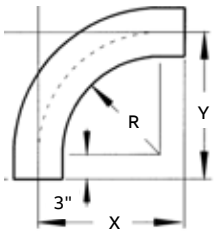
Method
1. Material type
2. Siderail height & ladder width(s)
3. Bottom type and fitting type
4. Angle
5. Nominal radius



Aluminum fittings

90°/60° H-style horizontal bend fittings

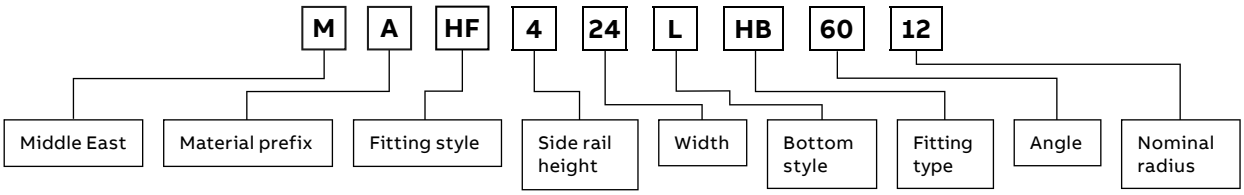
90° Horizontal bend – H-style



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	6	152.4	MAHF(†)06(*)HB9012	18	457.20	18	457.20
		9	228.6	MAHF(†)09(*)HB9012	19½	495.30	19½	495.30
		12	304.8	MAHF(†)12(*)HB9012	21	533.40	21	533.40
		18	457.2	MAHF(†)18(*)HB9012	24	609.60	24	609.60
		24	609.6	MAHF(†)24(*)HB9012	27	685.80	27	685.80
		30	762	MAHF(†)30(*)HB9012	30	762.00	30	762.00
		36	914.4	MAHF(†)36(*)HB9012	33	838.20	33	838.20
		42	1,066.8	MAHF(†)42(*)HB9012	36	914.40	36	914.40
24	609.6	6	152.4	MAHF(†)06(*)HB9024	30	762.00	30	762.00
		9	228.6	MAHF(†)09(*)HB9024	31½	800.10	31½	800.10
		12	304.8	MAHF(†)12(*)HB9024	33	838.20	33	838.20
		18	457.2	MAHF(†)18(*)HB9024	36	914.40	36	914.40
		24	609.6	MAHF(†)24(*)HB9024	39	990.60	39	990.60
		30	762	MAHF(†)30(*)HB9024	42	1066.80	42	1066.80
		36	914.4	MAHF(†)36(*)HB9024	45	1143.00	45	1143.00
		42	1,066.8	MAHF(†)42(*)HB9024	48	1219.20	48	1219.20
36	914.4	6	152.4	MAHF(†)06(*)HB9036	42	1066.80	42	1066.80
		9	228.6	MAHF(†)09(*)HB9036	43½	1104.90	43½	1104.90
		12	304.8	MAHF(†)12(*)HB9036	45	1143.00	45	1143.00
		18	457.2	MAHF(†)18(*)HB9036	48	1219.20	48	1219.20
		24	609.6	MAHF(†)24(*)HB9036	54	1371.60	54	1371.60
		30	762	MAHF(†)30(*)HB9036	55½	1409.70	55½	1409.70
		36	914.4	MAHF(†)36(*)HB9036	57	1447.80	57	1447.80
		42	1,066.8	MAHF(†)42(*)HB9036	60	1524.00	60	1524.00
48	1,219.2	6	152.4	MAHF(†)06(*)HB9048	54	1371.60	54	1371.60
		9	228.6	MAHF(†)09(*)HB9048	55½	1409.70	55½	1409.70
		12	304.8	MAHF(†)12(*)HB9048	57	1447.80	57	1447.80
		18	457.2	MAHF(†)18(*)HB9048	60	1524.00	60	1524.00
		24	609.6	MAHF(†)24(*)HB9048	63	1600.20	63	1600.20
		30	762	MAHF(†)30(*)HB9048	66	1676.40	66	1676.40
		36	914.4	MAHF(†)36(*)HB9048	69	1752.60	69	1752.60
		42	1,066.8	MAHF(†)42(*)HB9048	72	1828.80	72	1828.80

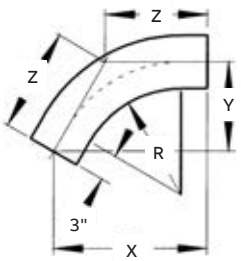
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

60° Horizontal bend – H-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	MAHF(†)06(*)HB6012	17½	368.30	10⅛	257.18	11¹¹⁄₁₆	296.86
		9	228.6	MAHF(†)09(*)HB6012	18¹³⁄₁₆	477.84	10⅞	276.23	12½	317.50
		12	304.8	MAHF(†)12(*)HB6012	20¹⁄₁₆	509.59	11⅝	295.28	13⅜	339.73
		18	457.2	MAHF(†)18(*)HB6012	22¹¹⁄₁₆	576.26	13⅛	333.38	15⅛	384.18
		24	609.6	MAHF(†)24(*)HB6012	25⁵⁄₁₆	642.94	14⅝	371.48	16⅞	428.63
		30	762	MAHF(†)30(*)HB6012	27⅞	708.03	16⅛	409.58	18⁹⁄₁₆	471.49
		36	914.4	MAHF(†)36(*)HB6012	30½	774.70	17⅝	447.68	20⁵⁄₁₆	515.94
		42	1,066.8	MAHF(†)42(*)HB6012	33¹⁄₁₆	839.79	19⅛	485.78	22¹⁄₁₆	560.39
24	609.6	6	152.4	MAHF(†)06(*)HB6024	27⅞	708.03	16⅛	409.58	18⁹⁄₁₆	471.49
		9	228.6	MAHF(†)09(*)HB6024	29³⁄₁₆	741.36	16⅞	428.63	19⁷⁄₁₆	493.71
		12	304.8	MAHF(†)12(*)HB6024	30½	774.70	17⅝	447.68	20⁵⁄₁₆	515.94
		18	457.2	MAHF(†)18(*)HB6024	33¹⁄₁₆	839.79	19⅛	485.78	22¹⁄₁₆	560.39
		24	609.6	MAHF(†)24(*)HB6024	35¹¹⁄₁₆	906.46	20⅝	523.88	23¹³⁄₁₆	604.84
		30	762	MAHF(†)30(*)HB6024	38¼	971.55	22⅛	561.98	25½	647.70
		36	914.4	MAHF(†)36(*)HB6024	40⅞	1038.23	23⅝	600.08	27¼	692.15
		42	1,066.8	MAHF(†)42(*)HB6024	43⁷⁄₁₆	1103.31	25⅛	638.18	29⁵⁄₁₆	744.54
36	914.4	6	152.4	MAHF(†)06(*)HB6036	38¼	971.55	22⅛	561.98	30¹¹⁄₁₆	779.46
		9	228.6	MAHF(†)09(*)HB6036	39⁹⁄₁₆	1004.89	22⅞	581.03	26⅜	669.93
		12	304.8	MAHF(†)12(*)HB6036	40⅞	1038.23	23⅝	600.08	27¼	692.15
		18	457.2	MAHF(†)18(*)HB6036	43½	1104.90	25⅛	638.18	29	736.60
		24	609.6	MAHF(†)24(*)HB6036	46¹⁄₁₆	1169.99	26⅝	676.28	30¹¹⁄₁₆	779.46
		30	762	MAHF(†)30(*)HB6036	48¹¹⁄₁₆	1236.66	28⅛	714.38	32⁷⁄₁₆	823.91
		36	914.4	MAHF(†)36(*)HB6036	51¼	1301.75	29⅝	752.48	34³⁄₁₆	868.36
		42	1,066.8	MAHF(†)42(*)HB6036	53⅞	1368.43	31⅛	790.58	35⁵⁄₁₆	896.94
48	1,219.2	6	152.4	MAHF(†)06(*)HB6048	48¹¹⁄₁₆	1236.66	28⅛	714.38	32⁷⁄₁₆	823.91
		9	228.6	MAHF(†)09(*)HB6048	49¹⁵⁄₁₆	1268.41	28⅞	733.43	33⁹⁄₁₆	846.14
		12	304.8	MAHF(†)12(*)HB6048	51¼	1301.75	29⅝	752.48	34³⁄₁₆	868.36
		18	457.2	MAHF(†)18(*)HB6048	53⅞	1368.43	31⅛	790.58	35¹⁵⁄₁₆	912.81
		24	609.6	MAHF(†)24(*)HB6048	56⁷⁄₁₆	1433.51	32⅝	828.68	37⅝	955.68
		30	762	MAHF(†)30(*)HB6048	59¹⁄₁₆	1500.19	34⅛	866.78	39⅜	1000.13
		36	914.4	MAHF(†)36(*)HB6048	61¹¹⁄₁₆	1566.86	35⅝	904.88	41⅛	1044.58
		42	1,066.8	MAHF(†)42(*)HB6048	64¼	1631.95	37⅛	942.98	42¹³⁄₁₆	1087.44

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

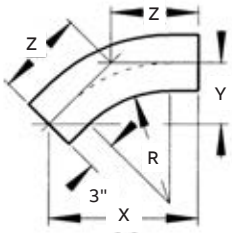
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°, 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

45°/30° H-style horizontal bend fittings

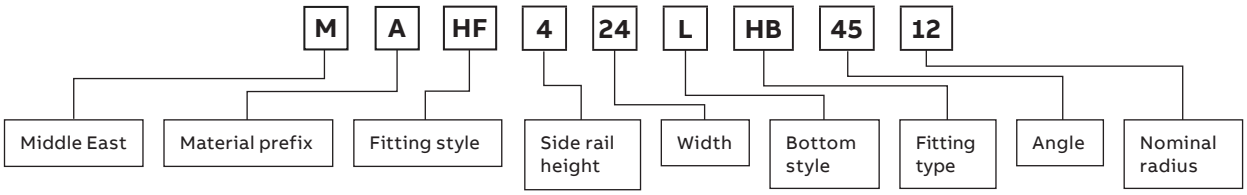
45° Horizontal bend – H-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	MAHF(†)06(*)HB4512	15¾	400.05	6½	165.10	9³⁄₁₆	233.36
		9	228.6	MAHF(†)09(*)HB4512	16¹³⁄₁₆	427.04	6¹⁵⁄₁₆	176.21	9¹³⁄₁₆	249.24
		12	304.8	MAHF(†)12(*)HB4512	17⅞	454.03	7⅜	187.33	10⁷⁄₁₆	265.11
		18	457.2	MAHF(†)18(*)HB4512	20	508.00	8¼	209.55	11¹¹⁄₁₆	296.86
		24	609.6	MAHF(†)24(*)HB4512	22¹⁄₁₆	560.39	9⅛	231.78	12¹⁵⁄₁₆	328.61
		30	762	MAHF(†)30(*)HB4512	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		36	914.4	MAHF(†)36(*)HB4512	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	15⁷⁄₁₆	392.11
		42	1,066.8	MAHF(†)42(*)HB4512	28⁷⁄₁₆	722.31	11⅞	301.63	16¹¹⁄₁₆	423.86
24	609.6	6	152.4	MAHF(†)06(*)HB4524	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		9	228.6	MAHF(†)09(*)HB4524	25¼	641.35	10½	266.70	15⁷⁄₁₆	392.11
		12	304.8	MAHF(†)12(*)HB4524	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	16¹¹⁄₁₆	423.86
		18	457.2	MAHF(†)18(*)HB4524	28⁷⁄₁₆	722.31	11¹³⁄₁₆	300.04	17¹⁵⁄₁₆	455.61
		24	609.6	MAHF(†)24(*)HB4524	30⁹⁄₁₆	776.29	12¹¹⁄₁₆	322.26	19⅛	231.78
		30	762	MAHF(†)30(*)HB4524	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19¾	501.65
		36	914.4	MAHF(†)36(*)HB4524	34¹³⁄₁₆	884.24	14⅞	377.83	20⅜	517.53
		42	1,066.8	MAHF(†)42(*)HB4524	36¹⁵⁄₁₆	938.21	15¾	400.05	21⅝	549.28
36	914.4	6	152.4	MAHF(†)06(*)HB4536	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19⅛	485.78
		9	228.6	MAHF(†)09(*)HB4536	33¾	857.25	14	355.60	19¾	501.65
		12	304.8	MAHF(†)12(*)HB4536	34¹³⁄₁₆	884.24	14⁷⁄₁₆	366.71	20⅜	517.53
		18	457.2	MAHF(†)18(*)HB4536	36¹⁵⁄₁₆	938.21	15¹⁵⁄₁₆	404.81	21⅝	549.28
		24	609.6	MAHF(†)24(*)HB4536	39¹⁄₁₆	992.19	16³⁄₁₆	411.16	22⅞	581.03
		30	762	MAHF(†)30(*)HB4536	41³⁄₁₆	1046.16	17¹⁄₁₆	433.39	24⅛	612.78
		36	914.4	MAHF(†)36(*)HB4536	43⁵⁄₁₆	1100.14	17¹⁵⁄₁₆	455.61	25⅜	644.53
		42	1,066.8	MAHF(†)42(*)HB4536	45⁷⁄₁₆	1154.11	18¹³⁄₁₆	477.84	26⅝	676.28
48	1,219.2	6	152.4	MAHF(†)06(*)HB4548	41³⁄₁₆	1062.04	17¹⁄₁₆	433.39	24⅛	612.78
		9	228.6	MAHF(†)09(*)HB4548	42¼	1073.15	17½	444.50	24¾	628.65
		12	304.8	MAHF(†)12(*)HB4548	43⁵⁄₁₆	1100.14	17¹⁵⁄₁₆	455.61	25⅜	644.53
		18	457.2	MAHF(†)18(*)HB4548	45⁷⁄₁₆	1154.11	18¹³⁄₁₆	477.84	26⅝	676.28
		24	609.6	MAHF(†)24(*)HB4548	47⁹⁄₁₆	1208.09	19¹¹⁄₁₆	500.06	27¾	704.85
		30	762	MAHF(†)30(*)HB4548	49¹¹⁄₁₆	1262.06	20⁹⁄₁₆	522.29	29⅛	739.78
		36	914.4	MAHF(†)36(*)HB4548	51¹³⁄₁₆	1316.04	21⁷⁄₁₆	544.51	30⁵⁄₁₆	769.94
		42	1,066.8	MAHF(†)42(*)HB4548	53¹⁵⁄₁₆	1370.01	22⁵⁄₁₆	566.74	31⁹⁄₁₆	801.69

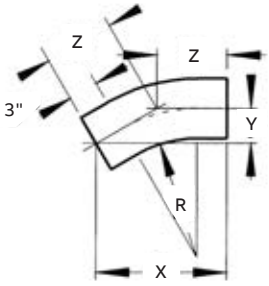
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

30° Horizontal bend – H-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	MAHF(†)06(*)HB3012	13 1/8	333.38	3 1/2	88.90	7	177.80
		9	228.6	MAHF(†)09(*)HB3012	13 7/8	352.43	3 11/16	93.66	7 7/16	188.91
		12	304.8	MAHF(†)12(*)HB3012	14 5/8	371.48	3 15/16	100.01	7 13/16	198.44
		18	457.2	MAHF(†)18(*)HB3012	16 1/8	409.58	4 5/16	109.54	8 5/8	219.08
		24	609.6	MAHF(†)24(*)HB3012	17 5/8	447.68	4 11/16	119.06	9 7/8	250.83
		30	762	MAHF(†)30(*)HB3012	19 1/8	485.78	5 1/8	130.18	10 1/4	260.35
		36	914.4	MAHF(†)36(*)HB3012	20 5/8	523.88	5 1/2	139.70	11 1/16	296.86
		42	1,066.8	MAHF(†)42(*)HB3012	22 1/8	561.98	5 7/8	149.23	12 5/16	312.74
24	609.6	6	152.4	MAHF(†)06(*)HB3024	19 1/8	485.78	5 1/8	130.18	10 1/4	260.35
		9	228.6	MAHF(†)09(*)HB3024	19 7/8	504.83	5 5/16	134.94	10 5/8	269.88
		12	304.8	MAHF(†)12(*)HB3024	20 5/8	523.88	5 1/2	139.70	11 1/16	280.99
		18	457.2	MAHF(†)18(*)HB3024	22 1/8	561.98	5 5/16	134.94	12 5/16	312.74
		24	609.6	MAHF(†)24(*)HB3024	23 5/8	600.08	6 5/16	160.34	10 1/4	260.35
		30	762	MAHF(†)30(*)HB3024	25 1/8	638.18	6 3/4	171.45	10 5/8	269.88
		36	914.4	MAHF(†)36(*)HB3024	26 5/8	676.28	7 1/8	180.98	11 1/16	280.99
		42	1,066.8	MAHF(†)42(*)HB3024	28 1/8	714.38	7 1/2	190.50	11 13/16	300.04
36	914.4	6	152.4	MAHF(†)06(*)HB3036	25 1/8	638.18	6 3/4	171.45	12 5/8	320.68
		9	228.6	MAHF(†)09(*)HB3036	25 7/8	657.23	6 15/16	176.21	13 7/16	341.31
		12	304.8	MAHF(†)12(*)HB3036	26 5/8	676.28	7 1/8	180.98	14 1/2	368.30
		18	457.2	MAHF(†)18(*)HB3036	28 1/8	714.38	7 1/2	190.50	15 1/16	382.59
		24	609.6	MAHF(†)24(*)HB3036	29 5/8	752.48	7 15/16	201.61	15 7/8	403.23
		30	762	MAHF(†)30(*)HB3036	31 1/8	790.58	8 5/16	211.14	16 11/16	423.86
		36	914.4	MAHF(†)36(*)HB3036	32 5/8	828.68	8 3/4	222.25	17 1/2	444.50
		42	1,066.8	MAHF(†)42(*)HB3036	34 1/8	866.78	9 1/8	231.78	18 5/16	465.14
48	1,219.2	6	152.4	MAHF(†)06(*)HB3048	31 1/8	790.58	8 5/16	211.14	16 11/16	423.86
		9	228.6	MAHF(†)09(*)HB3048	31 7/8	809.63	8 9/16	217.49	17 1/16	433.39
		12	304.8	MAHF(†)12(*)HB3048	32 5/8	828.68	8 3/4	222.25	17 1/2	444.50
		18	457.2	MAHF(†)18(*)HB3048	34 1/8	866.78	9 1/8	231.78	18 1/4	463.55
		24	609.6	MAHF(†)24(*)HB3048	35 5/8	904.88	9 9/16	242.89	19 1/16	484.19
		30	762	MAHF(†)30(*)HB3048	37 1/8	942.98	9 15/16	252.41	19 7/8	504.83
		36	914.4	MAHF(†)36(*)HB3048	38 5/8	981.08	10 5/16	261.94	20 11/16	525.46
		42	1,066.8	MAHF(†)42(*)HB3048	40 1/8	1019.18	10 11/16	271.46	21 1/2	546.10

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

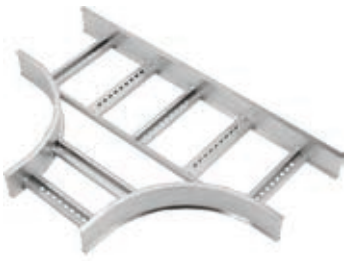
Selection guide

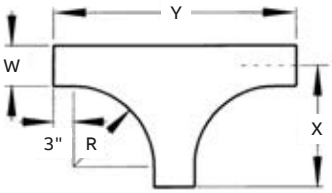
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°, 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

H-style horizontal tee and cross fittings

Horizontal tee – H-style

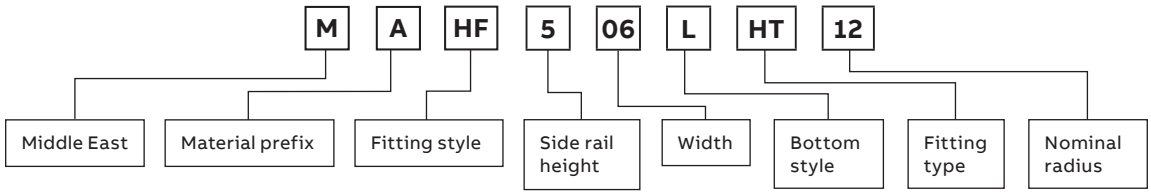




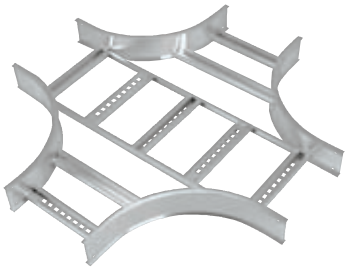
Nominal Radius		Nominal Width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12	304.8	6	152.4	MAHF(†)06(*)HT12	18	457.20	36	914.40
		9	228.6	MAHF(†)09(*)HT12	19½	495.30	39	990.60
		12	304.8	MAHF(†)12(*)HT12	21	533.40	42	1066.80
		18	457.2	MAHF(†)18(*)HT12	24	609.60	48	1219.20
		24	609.6	MAHF(†)24(*)HT12	27	685.80	54	1371.60
		30	762	MAHF(†)30(*)HT12	30	762.00	60	1524.00
		36	914.4	MAHF(†)36(*)HT12	33	838.20	66	1676.40
		42	1,066.8	MAHF(†)42(*)HT12	36	914.40	72	1828.80
24	609.6	6	152.4	MAHF(†)06(*)HT24	30	762.00	60	1524.00
		9	228.6	MAHF(†)09(*)HT24	31½	800.10	63	1600.20
		12	304.8	MAHF(†)12(*)HT24	33	838.20	66	1676.40
		18	457.2	MAHF(†)18(*)HT24	36	914.40	72	1828.80
		24	609.6	MAHF(†)24(*)HT24	39	990.60	78	1981.20
		30	762	MAHF(†)30(*)HT24	42	1066.80	84	2133.60
		36	914.4	MAHF(†)36(*)HT24	45	1143.00	90	2286.00
		42	1,066.8	MAHF(†)42(*)HT24	48	1219.20	96	2438.40
36	914.4	6	152.4	MAHF(†)06(*)HT36	42	1066.80	84	2133.60
		9	228.6	MAHF(†)09(*)HT36	43½	1104.90	87	2209.80
		12	304.8	MAHF(†)12(*)HT36	45	1143.00	90	2286.00
		18	457.2	MAHF(†)18(*)HT36	48	1219.20	96	2438.40
		24	609.6	MAHF(†)24(*)HT36	51	1295.40	102	2590.80
		30	762	MAHF(†)30(*)HT36	54	1371.60	108	2743.20
		36	914.4	MAHF(†)36(*)HT36	57	1447.80	114	2895.60
		42	1,066.8	MAHF(†)42(*)HT36	60	1524.00	120	3048.00
48	1,219.2	6	152.4	MAHF(†)06(*)HT48	54	1371.60	108	2743.20
		9	228.6	MAHF(†)09(*)HT48	55½	1409.70	111	2819.40
		12	304.8	MAHF(†)12(*)HT48	57	1447.80	114	2895.60
		18	457.2	MAHF(†)18(*)HT48	60	1524.00	120	3048.00
		24	609.6	MAHF(†)24(*)HT48	63	1600.20	126	3200.40
		30	762	MAHF(†)30(*)HT48	66	1676.40	132	3352.80
		36	914.4	MAHF(†)36(*)HT48	69	1752.60	138	3505.20
		42	1,066.8	MAHF(†)42(*)HT48	72	1828.80	144	3657.60

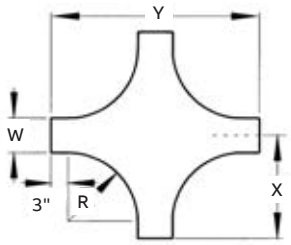
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—
Horizontal cross – H-style





Nominal Radius		Nominal Width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12	304.8	6	152.4	MAHF(†)06(*)HX12	18	457.20	36	914.40
		9	228.6	MAHF(†)09(*)HX12	19½	495.30	39	990.60
		12	304.8	MAHF(†)12(*)HX12	21	533.40	42	1066.80
		18	457.2	MAHF(†)18(*)HX12	24	609.60	48	1219.20
		24	609.6	MAHF(†)24(*)HX12	27	685.80	54	1371.60
		30	762	MAHF(†)30(*)HX12	30	762.00	60	1524.00
		36	914.4	MAHF(†)36(*)HX12	33	838.20	66	1676.40
		42	1,066.8	MAHF(†)42(*)HX12	36	914.40	72	1828.80
24	609.6	6	152.4	MAHF(†)06(*)HX24	30	762.00	60	1524.00
		9	228.6	MAHF(†)09(*)HX24	31½	800.10	63	1600.20
		12	304.8	MAHF(†)12(*)HX24	33	838.20	66	1676.40
		18	457.2	MAHF(†)18(*)HX24	36	914.40	72	1828.80
		24	609.6	MAHF(†)24(*)HX24	39	990.60	78	1981.20
		30	762	MAHF(†)30(*)HX24	42	1066.80	84	2133.60
		36	914.4	MAHF(†)36(*)HX24	45	1143.00	90	2286.00
		42	1,066.8	MAHF(†)42(*)HX24	48	1219.20	96	2438.40
36	914.4	6	152.4	MAHF(†)06(*)HX36	42	1066.80	84	2133.60
		9	228.6	MAHF(†)09(*)HX36	43½	1104.90	87	2209.80
		12	304.8	MAHF(†)12(*)HX36	45	1143.00	90	2286.00
		18	457.2	MAHF(†)18(*)HX36	48	1219.20	96	2438.40
		24	609.6	MAHF(†)24(*)HX36	51	1295.40	102	2590.80
		30	762	MAHF(†)30(*)HX36	54	1371.60	108	2743.20
		36	914.4	MAHF(†)36(*)HX36	57	1447.80	114	2895.60
		42	1,066.8	MAHF(†)42(*)HX36	60	1524.00	120	3048.00
48	1,219.2	6	152.4	MAHF(†)06(*)HX48	54	1371.60	108	2743.20
		9	228.6	MAHF(†)09(*)HX48	55½	1409.70	111	2819.40
		12	304.8	MAHF(†)12(*)HX48	57	1447.80	114	2895.60
		18	457.2	MAHF(†)18(*)HX48	60	1524.00	120	3048.00
		24	609.6	MAHF(†)24(*)HX48	63	1600.20	126	3200.40
		30	762	MAHF(†)30(*)HX48	66	1676.40	132	3352.80
		36	914.4	MAHF(†)36(*)HX48	69	1752.60	138	3505.20
		42	1,066.8	MAHF(†)42(*)HX48	72	1828.80	144	3657.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—
*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

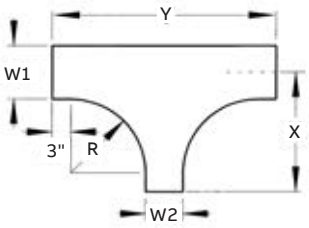
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

H-style horizontal reducing tee

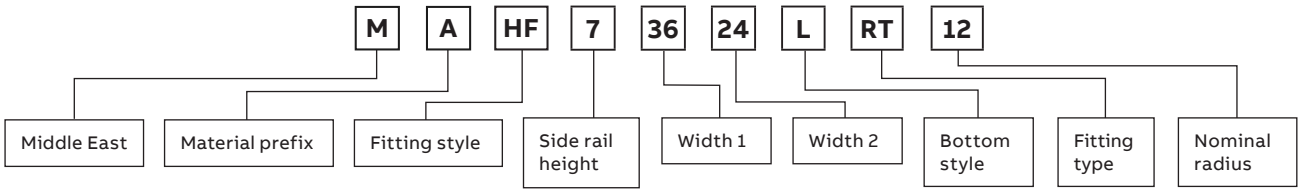
Horizontal reducing tee – H-style



Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	MAHF(†)4236(*)RT(+)	36	914.40	66	1676.40	48	1219.20	90	2286.00
		30	762	MAHF(†)4230(*)RT(+)	36	914.40	60	1524.00	48	1219.20	84	2133.60
		24	609.6	MAHF(†)4224(*)RT(+)	36	914.40	54	1371.60	48	1219.20	74	1879.60
		18	457.2	MAHF(†)4218(*)RT(+)	36	914.40	48	1219.20	48	1219.20	72	1828.80
		12	304.8	MAHF(†)4212(*)RT(+)	36	914.40	42	1066.80	48	1219.20	66	1676.40
		9	228.6	MAHF(†)4209(*)RT(+)	36	914.40	39	990.60	48	1219.20	63	1600.20
		6	152.4	MAHF(†)4206(*)RT(+)	36	914.40	36	914.40	48	1219.20	60	1524.00
36	914.4	30	762	MAHF(†)3630(*)RT(+)	33	838.20	60	1524.00	45	1143.00	84	2133.60
		24	609.6	MAHF(†)3624(*)RT(+)	33	838.20	54	1371.60	45	1143.00	78	1981.20
		18	457.2	MAHF(†)3618(*)RT(+)	33	838.20	48	1219.20	45	1143.00	72	1828.80
		12	304.8	MAHF(†)3612(*)RT(+)	33	838.20	42	1066.80	45	1143.00	66	1676.40
		9	228.6	MAHF(†)3609(*)RT(+)	33	838.20	39	990.60	45	1143.00	63	1600.20
		6	152.4	MAHF(†)3606(*)RT(+)	33	838.20	36	914.40	45	1143.00	60	1524.00
30	762	24	609.6	MAHF(†)3024(*)RT(+)	30	762.00	54	1371.60	42	1066.80	78	1981.20
		18	457.2	MAHF(†)3018(*)RT(+)	30	762.00	48	1219.20	42	1066.80	72	1828.80
		12	304.8	MAHF(†)3012(*)RT(+)	30	762.00	42	1066.80	42	1066.80	66	1676.40
		9	228.6	MAHF(†)3009(*)RT(+)	30	762.00	39	990.60	42	1066.80	63	1600.20
		6	152.4	MAHF(†)3006(*)RT(+)	30	762.00	36	914.40	42	1066.80	60	1524.00
24	609.6	18	457.2	MAHF(†)2418(*)RT(+)	27	685.80	48	1219.20	39	990.60	72	1828.80
		12	304.8	MAHF(†)2412(*)RT(+)	27	685.80	42	1066.80	39	990.60	66	1676.40
		9	228.6	MAHF(†)2409(*)RT(+)	27	685.80	39	990.60	39	990.60	63	1600.20
		6	152.4	MAHF(†)2406(*)RT(+)	27	685.80	36	914.40	39	990.60	60	1524.00
18	457.2	12	304.8	MAHF(†)1812(*)RT(+)	24	609.60	42	1066.80	36	914.40	66	1676.40
		9	228.6	MAHF(†)1809(*)RT(+)	24	609.60	39	990.60	36	914.40	63	1600.20
		6	152.4	MAHF(†)1806(*)RT(+)	24	609.60	36	914.40	36	914.40	60	1524.00
12	304.8	9	228.6	MAHF(†)1209(*)RT(+)	21	533.40	39	990.60	33	838.20	63	1600.20
		6	152.4	MAHF(†)1206(*)RT(+)	21	533.40	36	914.40	33	838.20	60	1524.00
9	228.6	6	152.4	MAHF(†)0906(*)RT(+)	19½	495.30	36	914.40	31½	800.10	60	1524.00

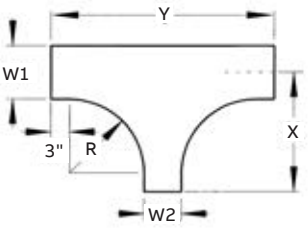
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

Horizontal reducing tee – H-style (continued)



Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	MAHF(†)4236(*)RT(+)	60	1524.00	114	2895.60	72	1828.80	138	3505.20
		30	762	MAHF(†)4230(*)RT(+)	60	1524.00	108	2743.20	72	1828.80	132	3352.80
		24	609.6	MAHF(†)4224(*)RT(+)	60	1524.00	102	2590.80	72	1828.80	126	3200.40
		18	457.2	MAHF(†)4218(*)RT(+)	60	1524.00	96	2438.40	72	1828.80	120	3048.00
		12	304.8	MAHF(†)4212(*)RT(+)	60	1524.00	90	2286.00	72	1828.80	114	2895.60
		9	228.6	MAHF(†)4209(*)RT(+)	60	1524.00	87	2209.80	72	1828.80	111	2819.40
		6	152.4	MAHF(†)4206(*)RT(+)	60	1524.00	84	2133.60	72	1828.80	108	2743.20
36	914.4	30	762	MAHF(†)3630(*)RT(+)	57	1447.80	108	2743.20	69	1752.60	132	3352.80
		24	609.6	MAHF(†)3624(*)RT(+)	57	1447.80	102	2590.80	69	1752.60	126	3200.40
		18	457.2	MAHF(†)3618(*)RT(+)	57	1447.80	96	2438.40	69	1752.60	120	3048.00
		12	304.8	MAHF(†)3612(*)RT(+)	57	1447.80	90	2286.00	69	1752.60	114	2895.60
		9	228.6	MAHF(†)3609(*)RT(+)	57	1447.80	87	2209.80	69	1752.60	111	2819.40
		6	152.4	MAHF(†)3606(*)RT(+)	57	1447.80	84	2133.60	69	1752.60	108	2743.20
30	762	24	609.6	MAHF(†)3024(*)RT(+)	54	1371.60	102	2590.80	66	1676.40	126	3200.40
		18	457.2	MAHF(†)3018(*)RT(+)	54	1371.60	96	2438.40	66	1676.40	120	3048.00
		12	304.8	MAHF(†)3012(*)RT(+)	54	1371.60	90	2286.00	66	1676.40	114	2895.60
		9	228.6	MAHF(†)3009(*)RT(+)	54	1371.60	87	2209.80	66	1676.40	111	2819.40
		6	152.4	MAHF(†)3006(*)RT(+)	54	1371.60	84	2133.60	66	1676.40	108	2743.20
24	609.6	18	457.2	MAHF(†)2418(*)RT(+)	51	1295.40	96	2438.40	63	1600.20	120	3048.00
		12	304.8	MAHF(†)2412(*)RT(+)	51	1295.40	90	2286.00	63	1600.20	114	2895.60
		9	228.6	MAHF(†)2409(*)RT(+)	51	1295.40	87	2209.80	63	1600.20	111	2819.40
		6	152.4	MAHF(†)2406(*)RT(+)	51	1295.40	84	2133.60	63	1600.20	108	2743.20
18	457.2	12	304.8	MAHF(†)1812(*)RT(+)	48	1219.20	90	2286.00	60	1524.00	114	2895.60
		9	228.6	MAHF(†)1809(*)RT(+)	48	1219.20	87	2209.80	60	1524.00	111	2819.40
		6	152.4	MAHF(†)1806(*)RT(+)	48	1219.20	84	2133.60	60	1524.00	108	2743.20
12	304.8	9	228.6	MAHF(†)1209(*)RT(+)	45	1143.00	87	2209.80	57	1447.80	111	2819.40
		6	152.4	MAHF(†)1206(*)RT(+)	45	1143.00	84	2133.60	57	1447.80	108	2743.20
9	228.6	6	152.4	MAHF(†)0906(*)RT(+)	43½	1104.90	84	2133.60	55½	1409.70	108	2743.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

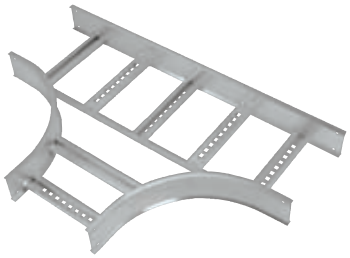
Selection guide

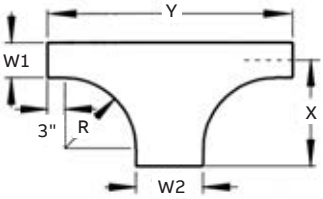
- Tray widths W1: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Tray widths W2: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

H-style horizontal expanding tee

Horizontal expanding tee – H-style

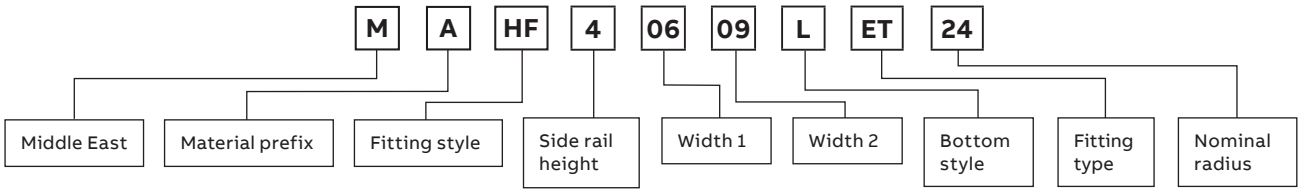




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	MAHF(†)3642(*)ET(+)	33	838.20	72	1828.80	45	1143.00	96	2438.40
30	762	36	914.4	MAHF(†)3036(*)ET(+)	30	762.00	66	1676.40	42	1066.80	90	2286.00
		42	1,066.8	MAHF(†)3042(*)ET(+)	30	762.00	72	1828.80	42	1066.80	96	2438.40
24	609.6	30	762	MAHF(†)2430(*)ET(+)	27	685.80	60	1524.00	39	990.60	84	2133.60
		36	914.4	MAHF(†)2436(*)ET(+)	27	685.80	66	1676.40	39	990.60	90	2286.00
		42	1,066.8	MAHF(†)2442(*)ET(+)	27	685.80	72	1828.80	39	990.60	96	2438.40
18	457.2	24	609.6	MAHF(†)1824(*)ET(+)	24	609.60	54	1371.60	36	914.40	78	1981.20
		30	762	MAHF(†)1830(*)ET(+)	24	609.60	60	1524.00	36	914.40	84	2133.60
		36	914.4	MAHF(†)1836(*)ET(+)	24	609.60	66	1676.40	36	914.40	90	2286.00
		42	1,066.8	MAHF(†)1842(*)ET(+)	24	609.60	72	1828.80	36	914.40	96	2438.40
12	304.8	18	457.2	MAHF(†)1218(*)ET(+)	21	533.40	48	1219.20	33	838.20	72	1828.80
		24	609.6	MAHF(†)1224(*)ET(+)	21	533.40	54	1371.60	33	838.20	78	1981.20
		30	762	MAHF(†)1230(*)ET(+)	21	533.40	60	1524.00	33	838.20	84	2133.60
		36	914.4	MAHF(†)1236(*)ET(+)	21	533.40	66	1676.40	33	838.20	90	2286.00
		42	1,066.8	MAHF(†)1242(*)ET(+)	21	533.40	72	1828.80	33	838.20	96	2438.40
9	228.6	12	304.8	MAHF(†)0912(*)ET(+)	19½	495.30	42	1066.80	31½	800.10	66	1676.40
		18	457.2	MAHF(†)0918(*)ET(+)	19½	495.30	48	1219.20	31½	800.10	72	1828.80
		24	609.6	MAHF(†)0924(*)ET(+)	19½	495.30	54	1371.60	31½	800.10	78	1981.20
		30	762	MAHF(†)0930(*)ET(+)	19½	495.30	60	1524.00	31½	800.10	84	2133.60
		36	914.4	MAHF(†)0936(*)ET(+)	19½	495.30	66	1676.40	31½	800.10	90	2286.00
		42	1,066.8	MAHF(†)0942(*)ET(+)	19½	495.30	72	1828.80	31½	800.10	96	2438.40
6	152.4	9	228.6	MAHF(†)0609(*)ET(+)	18	457.20	39	990.60	30	762.00	63	1600.20
		12	304.8	MAHF(†)0612(*)ET(+)	18	457.20	42	1066.80	30	762.00	66	1676.40
		18	457.2	MAHF(†)0618(*)ET(+)	18	457.20	48	1219.20	30	762.00	72	1828.80
		24	609.6	MAHF(†)0642(*)ET(+)	18	457.20	54	1371.60	30	762.00	78	1981.20
		30	762	MAHF(†)0630(*)ET(+)	18	457.20	60	1524.00	30	762.00	84	2133.60
		36	914.4	MAHF(†)0636(*)ET(+)	18	457.20	66	1676.40	30	762.00	90	2286.00
		42	1,066.8	MAHF(†)0642(*)ET(+)	18	457.20	72	1828.80	30	762.00	96	2438.40

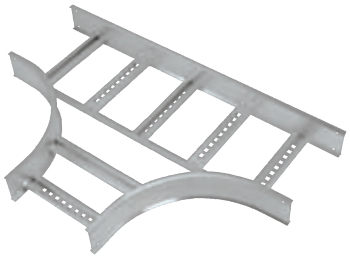
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

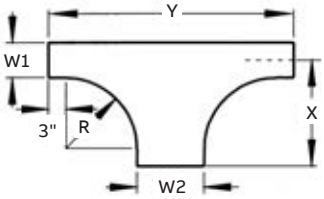
Fitting number selection



—

Horizontal expanding tee – H-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	MAHF(†)3642(*)ET(+)	57	1447.80	120	3048.00	69	1752.60	144	3657.60
30	762	36	914.4	MAHF(†)3036(*)ET(+)	54	1371.60	114	2895.60	66	1676.40	138	3505.20
		42	1,066.8	MAHF(†)3042(*)ET(+)	54	1371.60	120	3048.00	66	1676.40	144	3657.60
24	609.6	30	762	MAHF(†)2430(*)ET(+)	51	1295.40	108	2743.20	63	1600.20	132	3352.80
		36	914.4	MAHF(†)2436(*)ET(+)	51	1295.40	114	2895.60	63	1600.20	138	3505.20
		42	1,066.8	MAHF(†)2442(*)ET(+)	51	1295.40	120	3048.00	63	1600.20	144	3657.60
18	457.2	24	609.6	MAHF(†)1824(*)ET(+)	48	1219.20	102	2590.80	60	1524.00	126	3200.40
		30	762	MAHF(†)1830(*)ET(+)	48	1219.20	108	2743.20	60	1524.00	132	3352.80
		36	914.4	MAHF(†)1836(*)ET(+)	48	1219.20	114	2895.60	60	1524.00	138	3505.20
		42	1,066.8	MAHF(†)1842(*)ET(+)	48	1219.20	120	3048.00	60	1524.00	144	3657.60
12	304.8	18	457.2	MAHF(†)1218(*)ET(+)	45	1143.00	96	2438.40	57	1447.80	120	3048.00
		24	609.6	MAHF(†)1224(*)ET(+)	45	1143.00	102	2590.80	57	1447.80	126	3200.40
		30	762	MAHF(†)1230(*)ET(+)	45	1143.00	108	2743.20	57	1447.80	132	3352.80
		36	914.4	MAHF(†)1236(*)ET(+)	45	1143.00	114	2895.60	57	1447.80	138	3505.20
		42	1,066.8	MAHF(†)1242(*)ET(+)	45	1143.00	120	3048.00	57	1447.80	144	3657.60
9	228.6	12	304.8	MAHF(†)0912(*)ET(+)	43½	1104.90	90	2286.00	55½	1409.70	114	2895.60
		18	457.2	MAHF(†)0918(*)ET(+)	43½	1104.90	96	2438.40	55½	1409.70	120	3048.00
		24	609.6	MAHF(†)0924(*)ET(+)	43½	1104.90	102	2590.80	55½	1409.70	126	3200.40
		30	762	MAHF(†)0930(*)ET(+)	43½	1104.90	108	2743.20	55½	1409.70	132	3352.80
		36	914.4	MAHF(†)0936(*)ET(+)	43½	1104.90	114	2895.60	55½	1409.70	138	3505.20
		42	1,066.8	MAHF(†)0942(*)ET(+)	43½	1104.90	120	3048.00	55½	1409.70	144	3657.60
6	152.4	9	228.6	MAHF(†)0609(*)ET(+)	42	1066.80	87	2209.80	54	1371.60	111	2819.40
		12	304.8	MAHF(†)0612(*)ET(+)	42	1066.80	90	2286.00	54	1371.60	114	2895.60
		18	457.2	MAHF(†)0618(*)ET(+)	42	1066.80	96	2438.40	54	1371.60	120	3048.00
		24	609.6	MAHF(†)0642(*)ET(+)	42	1066.80	102	2590.80	54	1371.60	126	3200.40
		30	762	MAHF(†)0630(*)ET(+)	42	1066.80	108	2743.20	54	1371.60	132	3352.80
		36	914.4	MAHF(†)0636(*)ET(+)	42	1066.80	144	3657.60	54	1371.60	138	3505.20
		42	1,066.8	MAHF(†)0642(*)ET(+)	42	1066.80	120	3048.00	54	1371.60	144	3657.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

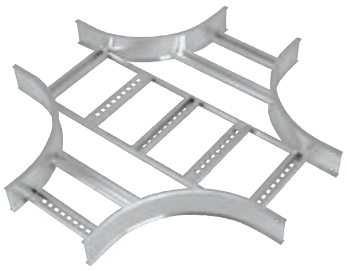
Selection guide

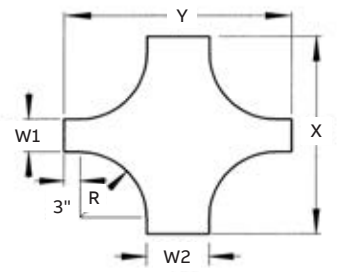
- Tray widths W1: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

H-style horizontal expanding cross

Horizontal expanding cross – H-style

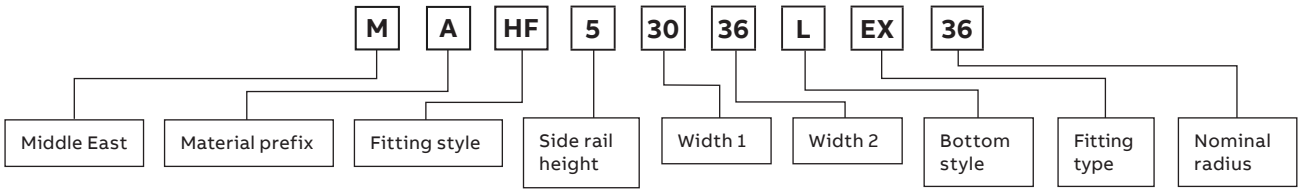




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	MAHF(†)3642(*)EX(+)	66	1676.40	72	1828.80	90	2286.00	96	2438.40
30	762	36	914.4	MAHF(†)3036(*)EX(+)	60	1524.00	66	1676.40	84	2133.60	90	2286.00
		42	1,066.8	MAHF(†)3042(*)EX(+)	60	1524.00	72	1828.80	84	2133.60	96	2438.40
24	609.6	30	762	MAHF(†)2430(*)EX(+)	54	1371.60	60	1524.00	78	1981.20	84	2133.60
		36	914.4	MAHF(†)2436(*)EX(+)	54	1371.60	66	1676.40	78	1981.20	90	2286.00
		42	1,066.8	MAHF(†)2442(*)EX(+)	54	1371.60	72	1828.80	78	1981.20	96	2438.40
18	457.2	24	609.6	MAHF(†)1824(*)EX(+)	48	1219.20	54	1371.60	72	1828.80	78	1981.20
		30	762	MAHF(†)1830(*)EX(+)	48	1219.20	60	1524.00	72	1828.80	84	2133.60
		36	914.4	MAHF(†)1836(*)EX(+)	48	1219.20	66	1676.40	72	1828.80	90	2286.00
		42	1,066.8	MAHF(†)1842(*)EX(+)	48	1219.20	72	1828.80	72	1828.80	96	2438.40
12	304.8	18	457.2	MAHF(†)1218(*)EX(+)	42	1066.80	48	1219.20	66	1676.40	72	1828.80
		24	609.6	MAHF(†)1224(*)EX(+)	42	1066.80	54	1371.60	66	1676.40	78	1981.20
		30	762	MAHF(†)1230(*)EX(+)	42	1066.80	60	1524.00	66	1676.40	84	2133.60
		36	914.4	MAHF(†)1236(*)EX(+)	42	1066.80	66	1676.40	66	1676.40	90	2286.00
		42	1,066.8	MAHF(†)1242(*)EX(+)	42	1066.80	72	1828.80	66	1676.40	96	2438.40
9	228.6	12	304.8	MAHF(†)0912(*)EX(+)	39	990.60	42	1066.80	63	1600.20	66	1676.40
		18	457.2	MAHF(†)0918(*)EX(+)	39	990.60	48	1219.20	63	1600.20	72	1828.80
		24	609.6	MAHF(†)0924(*)EX(+)	39	990.60	54	1371.60	63	1600.20	78	1981.20
		30	762	MAHF(†)0930(*)EX(+)	39	990.60	60	1524.00	63	1600.20	84	2133.60
		36	914.4	MAHF(†)0936(*)EX(+)	39	990.60	66	1676.40	63	1600.20	90	2286.00
		42	1,066.8	MAHF(†)0942(*)EX(+)	39	990.60	72	1828.80	63	1600.20	96	2438.40
6	152.4	9	228.6	MAHF(†)0609(*)EX(+)	36	914.40	39	990.60	60	1524.00	63	1600.20
		12	304.8	MAHF(†)0612(*)EX(+)	36	914.40	42	1066.80	60	1524.00	66	1676.40
		18	457.2	MAHF(†)0618(*)EX(+)	36	914.40	48	1219.20	60	1524.00	72	1828.80
		24	609.6	MAHF(†)0642(*)EX(+)	36	914.40	54	1371.60	60	1524.00	78	1981.20
		30	762	MAHF(†)0630(*)EX(+)	36	914.40	60	1524.00	60	1524.00	84	2133.60
		36	914.4	MAHF(†)0636(*)EX(+)	36	914.40	66	1676.40	60	1524.00	90	2286.00
		42	1,066.8	MAHF(†)0642(*)EX(+)	36	914.40	72	1828.80	60	1524.00	96	2438.40

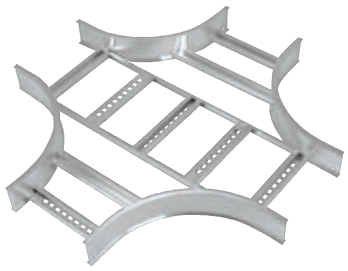
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

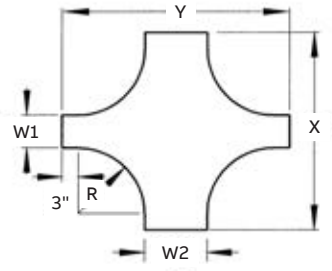
Fitting number selection



—

Horizontal expanding cross – H-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	MAHF(†)3642(*)EX(+)	114	2895.60	120	3048.00	138	3505.20	144	3657.60
30	762	36	914.4	MAHF(†)3036(*)EX(+)	108	2743.20	114	2895.60	132	3352.80	138	3505.20
		42	1,066.8	MAHF(†)3042(*)EX(+)	108	2743.20	120	3048.00	132	3352.80	144	3657.60
24	609.6	30	762	MAHF(†)2430(*)EX(+)	102	2590.80	108	2743.20	126	3200.40	132	3352.80
		36	914.4	MAHF(†)2436(*)EX(+)	102	2590.80	114	2895.60	126	3200.40	138	3505.20
		42	1,066.8	MAHF(†)2442(*)EX(+)	102	2590.80	120	3048.00	126	3200.40	144	3657.60
18	457.2	24	609.6	MAHF(†)1824(*)EX(+)	96	2438.40	102	2590.80	120	3048.00	126	3200.40
		30	762	MAHF(†)1830(*)EX(+)	96	2438.40	108	2743.20	120	3048.00	132	3352.80
		36	914.4	MAHF(†)1836(*)EX(+)	96	2438.40	114	2895.60	120	3048.00	138	3505.20
		42	1,066.8	MAHF(†)1842(*)EX(+)	96	2438.40	120	3048.00	120	3048.00	144	3657.60
12	304.8	18	457.2	MAHF(†)1218(*)EX(+)	90	2286.00	96	2438.40	114	2895.60	120	3048.00
		24	609.6	MAHF(†)1224(*)EX(+)	90	2286.00	102	2590.80	114	2895.60	126	3200.40
		30	762	MAHF(†)1230(*)EX(+)	90	2286.00	108	2743.20	114	2895.60	132	3352.80
		36	914.4	MAHF(†)1236(*)EX(+)	90	2286.00	114	2895.60	114	2895.60	138	3505.20
		42	1,066.8	MAHF(†)1242(*)EX(+)	90	2286.00	120	3048.00	114	2895.60	144	3657.60
9	228.6	12	304.8	MAHF(†)0912(*)EX(+)	87	2209.80	90	2286.00	111	2819.40	114	2895.60
		18	457.2	MAHF(†)0918(*)EX(+)	87	2209.80	96	2438.40	111	2819.40	120	3048.00
		24	609.6	MAHF(†)0924(*)EX(+)	87	2209.80	102	2590.80	111	2819.40	126	3200.40
		30	762	MAHF(†)0930(*)EX(+)	87	2209.80	108	2743.20	111	2819.40	132	3352.80
		36	914.4	MAHF(†)0936(*)EX(+)	87	2209.80	114	2895.60	111	2819.40	138	3505.20
		42	1,066.8	MAHF(†)0942(*)EX(+)	87	2209.80	120	3048.00	111	2819.40	144	3657.60
6	152.4	9	228.6	MAHF(†)0609(*)EX(+)	84	2133.60	87	2209.80	108	2743.20	111	2819.40
		12	304.8	MAHF(†)0612(*)EX(+)	84	2133.60	90	2286.00	108	2743.20	114	2895.60
		18	457.2	MAHF(†)0618(*)EX(+)	84	2133.60	96	2438.40	108	2743.20	120	3048.00
		24	609.6	MAHF(†)0642(*)EX(+)	84	2133.60	102	2590.80	108	2743.20	126	3200.40
		30	762	MAHF(†)0630(*)EX(+)	84	2133.60	108	2743.20	108	2743.20	132	3352.80
		36	914.4	MAHF(†)0636(*)EX(+)	84	2133.60	144	3657.60	108	2743.20	138	3505.20
		42	1,066.8	MAHF(†)0642(*)EX(+)	84	2133.60	120	3048.00	108	2743.20	144	3657.60

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Tray widths W1: 6, 9, 12, 18, 24, 30" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

H-style reducer fittings

Offset reducer – left

Reducer – left

Offset reducer – left

Selection guide

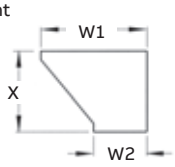
- Tray widths W1: 6, 9, 12, 18, 24, 30, 42"
- Tray widths W2: 6, 9, 12, 18, 24, 30, 36"
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4" - 7"

NOTE: For fitting number selection see page 85

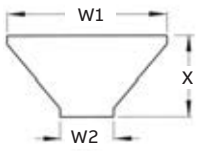
Horizontal reducer – H-style

Widths W1 (in)	Widths W1 (mm)	W1 (in)	W1 (mm)	Left reducer Cat. No.	Dim. X (in)	Dim. X (mm)	Straight reducer (concentric) Cat. No.	Dim. X (in)	Dim. X (mm)	Right reducer Cat. No.	Dim. X (in)	Dim. X (mm)
42	1,066.8	36	914.4	MAHF(†)4236(*)HLR	15 7/16	392.11	MAHF(†)4236(*)HSR	13 3/4	349.25	MAHF(†)4236(*)HRR	15 7/16	392.11
		30	762	MAHF(†)4230(*)HLR	18 5/16	465.14	MAHF(†)4230(*)HSR	15 7/16	392.11	MAHF(†)4230(*)HRR	18 5/16	465.14
		24	609.6	MAHF(†)4224(*)HLR	22 3/8	568.33	MAHF(†)4224(*)HSR	17 3/16	436.56	MAHF(†)4224(*)HRR	22 3/8	568.33
		18	457.2	MAHF(†)4218(*)HLR	25 7/8	657.23	MAHF(†)4218(*)HSR	18 5/16	465.14	MAHF(†)4218(*)HRR	25 7/8	657.23
		12	304.8	MAHF(†)4212(*)HLR	29 5/16	744.54	MAHF(†)4212(*)HSR	20 5/8	523.88	MAHF(†)4212(*)HRR	29 5/16	744.54
		9	228.6	MAHF(†)4209(*)HLR	31 1/16	788.99	MAHF(†)4209(*)HSR	21 1/2	546.10	MAHF(†)4209(*)HRR	31 1/16	788.99
		6	152.4	MAHF(†)4206(*)HLR	32 3/4	831.85	MAHF(†)4206(*)HSR	22 3/8	568.33	MAHF(†)4206(*)HRR	32 3/4	831.85
36	914.4	30	762	MAHF(†)3630(*)HLR	15 7/16	392.11	MAHF(†)3630(*)HSR	13 3/4	349.25	MAHF(†)3630(*)HRR	15 7/16	392.11
		24	609.6	MAHF(†)3624(*)HLR	18 15/16	481.01	MAHF(†)3624(*)HSR	15 7/16	392.11	MAHF(†)3624(*)HRR	18 15/16	481.01
		18	457.2	MAHF(†)3618(*)HLR	22 3/8	568.33	MAHF(†)3618(*)HSR	17 3/8	441.33	MAHF(†)3618(*)HRR	22 3/8	568.33
		12	304.8	MAHF(†)3612(*)HLR	25 7/8	657.23	MAHF(†)3612(*)HSR	18 5/16	465.14	MAHF(†)3612(*)HRR	25 7/8	657.23
		9	228.6	MAHF(†)3609(*)HLR	27 9/16	700.09	MAHF(†)3609(*)HSR	19 13/16	503.24	MAHF(†)3609(*)HRR	27 9/16	700.09
		6	152.4	MAHF(†)3606(*)HLR	29 5/16	744.54	MAHF(†)3606(*)HSR	20 11/16	525.46	MAHF(†)3606(*)HRR	29 5/16	744.54
30	762	24	609.6	MAHF(†)3024(*)HLR	15 7/16	392.11	MAHF(†)3024(*)HSR	13 3/4	349.25	MAHF(†)3024(*)HRR	15 7/16	392.11
		18	457.2	MAHF(†)3018(*)HLR	18 15/16	481.01	MAHF(†)3018(*)HSR	15 7/16	392.11	MAHF(†)3018(*)HRR	18 15/16	481.01
		12	304.8	MAHF(†)3012(*)HLR	22 3/8	568.33	MAHF(†)3012(*)HSR	17 3/16	436.56	MAHF(†)3012(*)HRR	22 3/8	568.33
		9	228.6	MAHF(†)3009(*)HLR	24 1/8	612.78	MAHF(†)3009(*)HSR	18 1/16	458.79	MAHF(†)3009(*)HRR	24 1/8	612.78
		6	152.4	MAHF(†)3006(*)HLR	25 7/8	657.23	MAHF(†)3006(*)HSR	18 15/16	481.01	MAHF(†)3006(*)HRR	25 7/8	657.23
24	609.6	18	457.2	MAHF(†)2418(*)HLR	15 7/16	392.11	MAHF(†)2418(*)HSR	13 3/4	349.25	MAHF(†)2418(*)HRR	15 7/16	392.11
		12	304.8	MAHF(†)2412(*)HLR	18 15/16	481.01	MAHF(†)2412(*)HSR	15 7/16	392.11	MAHF(†)2412(*)HRR	18 15/16	481.01
		9	228.6	MAHF(†)2409(*)HLR	20 11/16	525.46	MAHF(†)2409(*)HSR	16 5/16	414.34	MAHF(†)2409(*)HRR	20 11/16	525.46
		6	152.4	MAHF(†)2406(*)HLR	22 3/8	568.33	MAHF(†)2406(*)HSR	17 3/16	436.56	MAHF(†)2406(*)HRR	22 3/8	568.33
18	457.2	12	304.8	MAHF(†)1812(*)HLR	15 7/16	392.11	MAHF(†)1812(*)HSR	13 3/4	349.25	MAHF(†)1812(*)HRR	15 7/16	392.11
		9	228.6	MAHF(†)1809(*)HLR	17 3/16	436.56	MAHF(†)1809(*)HSR	14 5/8	371.48	MAHF(†)1809(*)HRR	17 3/16	436.56
		6	152.4	MAHF(†)1806(*)HLR	18 15/16	481.01	MAHF(†)1806(*)HSR	15 7/16	392.11	MAHF(†)1806(*)HRR	18 15/16	481.01
12	304.8	9	228.6	MAHF(†)1209(*)HLR	13 3/4	349.25	MAHF(†)1209(*)HSR	12 7/8	327.03	MAHF(†)1209(*)HRR	13 3/4	349.25
		6	152.4	MAHF(†)1206(*)HLR	15 7/16	392.11	MAHF(†)1206(*)HSR	13 3/4	349.25	MAHF(†)1206(*)HRR	15 7/16	392.11
9	1,066.8	6	152.4	MAHF(†)0906(*)HLR	13 3/4	349.25	MAHF(†)0906(*)HSR	12 7/8	327.03	MAHF(†)0906(*)HRR	13 3/4	349.25

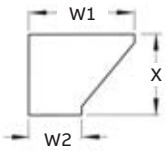
Offset reducer – right



Reducer – left



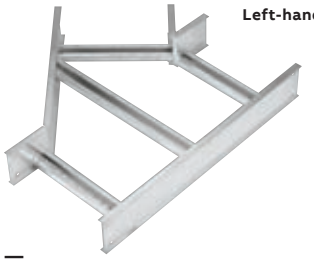
Offset reducer – left



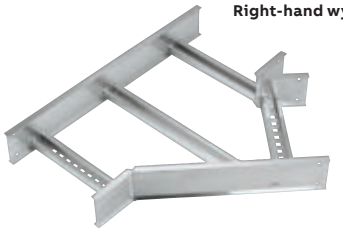
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Aluminum fittings

45° H-style horizontal wye fittings



Left-hand wye



Right-hand wye

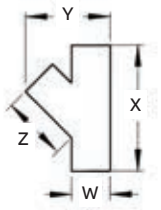
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

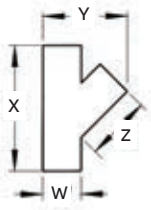
45° Horizontal wye – H-style

Width (in)	(mm)	Left-hand wye Cat. No.	Right-hand wye Cat. No.	Dimensions					
				X (in)	X(mm)	Y (in)	Y(mm)	Z (in)	Z (mm)
6	152.4	MAHF(†)06(*)HYL	MAHF(†)06(*)HYR	18 5/16	465.14	14 13/16	376.24	12 7/16	315.91
9	228.6	MAHF(†)09(*)HYL	MAHF(†)09(*)HYR	22 1/2	571.50	19 15/16	506.41	15 7/16	392.11
12	304.8	MAHF(†)12(*)HYL	MAHF(†)12(*)HYR	26 3/4	679.45	25	635.00	18 7/16	468.31
18	457.2	MAHF(†)18(*)HYL	MAHF(†)18(*)HYR	35 1/4	908.05	35 1/4	895.35	24 7/16	620.71
24	609.6	MAHF(†)24(*)HYL	MAHF(†)24(*)HYR	43 1/2	1104.90	45 1/2	1155.70	30 7/16	773.11
30	762	MAHF(†)30(*)HYL	MAHF(†)30(*)HYR	52 1/4	1327.15	55 3/4	1416.05	36 7/16	925.51
36	914.4	MAHF(†)36(*)HYL	MAHF(†)36(*)HYR	60 11/16	1541.46	66	1676.40	42 7/16	1077.91
42	1,066.8	MAHF(†)42(*)HYL	MAHF(†)42(*)HYR	69 3/16	1757.36	76 1/4	1936.75	45 7/16	1154.11

Left-hand wye

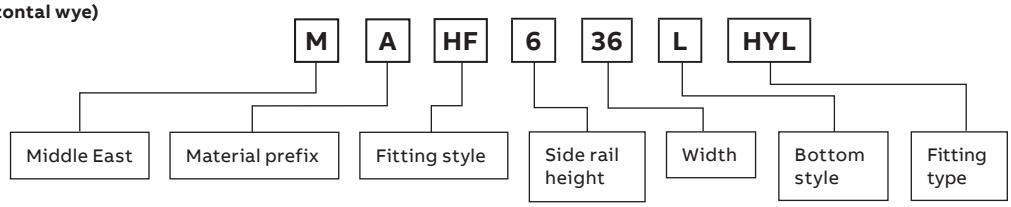


Right-hand wye



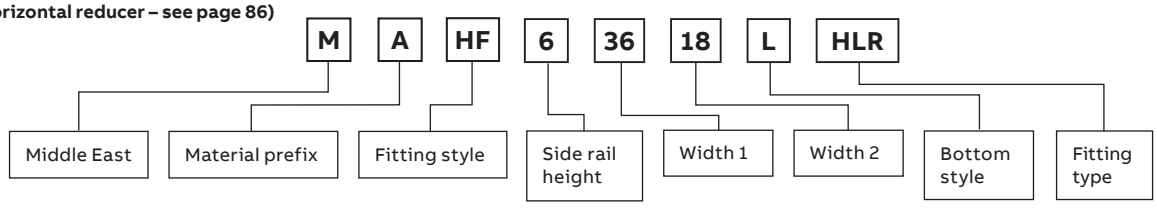
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection (45° Horizontal wye)



*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Fitting number selection (Horizontal reducer – see page 86)

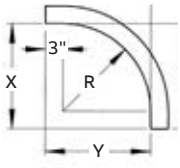


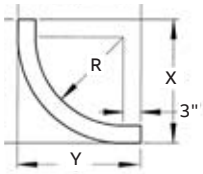
Aluminum fittings

90° H-style vertical bend fittings

90° Vertical bend – H-style

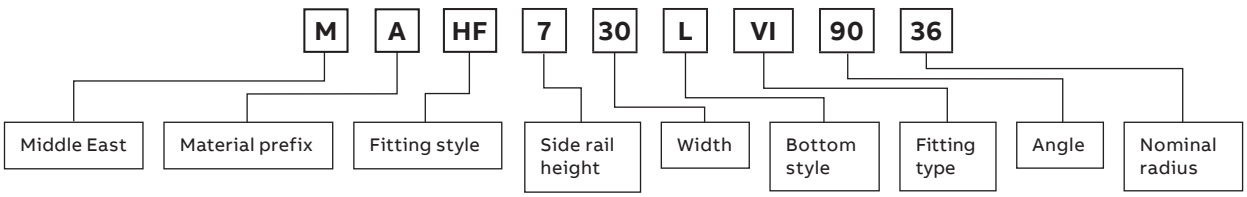
	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)		(+) VI side rail 4" (101.6mm)		(+) VI side rail 5" (127mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	MAHF(†)06(*)(+)9012	15 381.00	15 381.00	19 3/16 487.36	19 3/16 487.36	20 1/16 509.59	20 1/16 509.59
			9	228.6	MAHF(†)09(*)(+)9012						
			12	304.8	MAHF(†)12(*)(+)9012						
			18	457.2	MAHF(†)18(*)(+)9012						
			24	609.6	MAHF(†)24(*)(+)9012						
			30	762	MAHF(†)30(*)(+)9012						
			36	914.4	MAHF(†)36(*)(+)9012						
			42	1,066.8	MAHF(†)42(*)(+)9012						
	24	609.6	6	152.4	MAHF(†)06(*)(+)9024	27 685.80	27 685.80	31 3/16 792.16	31 3/16 792.16	32 1/16 814.39	32 1/16 814.39
			9	228.6	MAHF(†)09(*)(+)9024						
			12	304.8	MAHF(†)12(*)(+)9024						
			18	457.2	MAHF(†)18(*)(+)9024						
			24	609.6	MAHF(†)24(*)(+)9024						
			30	762	MAHF(†)30(*)(+)9024						
			36	914.4	MAHF(†)36(*)(+)9024						
			42	1,066.8	MAHF(†)42(*)(+)9024						
Inside bend	36	914.4	6	152.4	MAHF(†)06(*)(+)9036	39 990.60	39 990.60	43 3/16 1096.96	43 3/16 1096.96	44 1/16 1119.19	44 1/16 1119.19
			9	228.6	MAHF(†)09(*)(+)9036						
			12	304.8	MAHF(†)12(*)(+)9036						
			18	457.2	MAHF(†)18(*)(+)9036						
			24	609.6	MAHF(†)24(*)(+)9036						
			30	762	MAHF(†)30(*)(+)9036						
			36	914.4	MAHF(†)36(*)(+)9036						
			42	1,066.8	MAHF(†)42(*)(+)9036						
	48	1,219.2	6	152.4	MAHF(†)06(*)(+)9048	51 1295.40	51 1295.40	55 3/16 1401.76	55 3/16 1401.76	56 1/16 1423.99	56 1/16 1423.99
			9	228.6	MAHF(†)09(*)(+)9048						
			12	304.8	MAHF(†)12(*)(+)9048						
			18	457.2	MAHF(†)18(*)(+)9048						
			24	609.6	MAHF(†)24(*)(+)9048						
			30	762	MAHF(†)30(*)(+)9048						
			36	914.4	MAHF(†)36(*)(+)9048						
			42	1,066.8	MAHF(†)42(*)(+)9048						





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

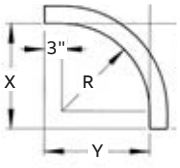
Fitting number selection

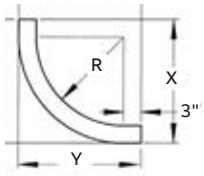


—

90° Vertical bend – H-style (continued)

	Nominal Radius		Nominal Width			(+) VI side rail			
						6" (152.4mm)		7" (177.8mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	MAHF(†)06(*)(+)9012	21¼ 539.75	21¼ 539.75	22¼ 565.15	22¼ 565.15
			9	228.6	MAHF(†)09(*)(+)9012				
			12	304.8	MAHF(†)12(*)(+)9012				
			18	457.2	MAHF(†)18(*)(+)9012				
			24	609.6	MAHF(†)24(*)(+)9012				
			30	762	MAHF(†)30(*)(+)9012				
			36	914.4	MAHF(†)36(*)(+)9012				
			42	1,066.8	MAHF(†)42(*)(+)9012				
	24	609.6	6	152.4	MAHF(†)06(*)(+)9024	33¼ 844.55	33¼ 844.55	34¼ 869.95	34¼ 869.95
			9	228.6	MAHF(†)09(*)(+)9024				
			12	304.8	MAHF(†)12(*)(+)9024				
			18	457.2	MAHF(†)18(*)(+)9024				
			24	609.6	MAHF(†)24(*)(+)9024				
			30	762	MAHF(†)30(*)(+)9024				
			36	914.4	MAHF(†)36(*)(+)9024				
			42	1,066.8	MAHF(†)42(*)(+)9024				
Inside bend	36	914.4	6	152.4	MAHF(†)06(*)(+)9036	45¼ 844.55	45¼ 844.55	46¼ 1174.75	46¼ 1174.75
			9	228.6	MAHF(†)09(*)(+)9036				
			12	304.8	MAHF(†)12(*)(+)9036				
			18	457.2	MAHF(†)18(*)(+)9036				
			24	609.6	MAHF(†)24(*)(+)9036				
			30	762	MAHF(†)30(*)(+)9036				
			36	914.4	MAHF(†)36(*)(+)9036				
			42	1,066.8	MAHF(†)42(*)(+)9036				
	48	1,219.2	6	152.4	MAHF(†)06(*)(+)9048	57¼ 1454.15	57¼ 1454.15	58¼ 1479.55	58¼ 1479.55
			9	228.6	MAHF(†)09(*)(+)9048				
			12	304.8	MAHF(†)12(*)(+)9048				
			18	457.2	MAHF(†)18(*)(+)9048				
			24	609.6	MAHF(†)24(*)(+)9048				
			30	762	MAHF(†)30(*)(+)9048				
			36	914.4	MAHF(†)36(*)(+)9048				
			42	1,066.8	MAHF(†)42(*)(+)9048				





(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

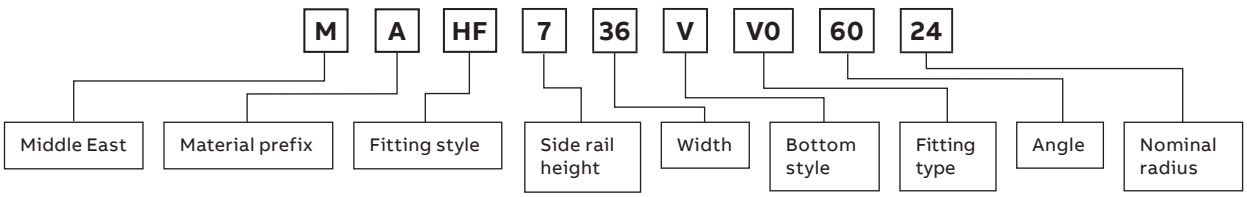
60° H-style vertical bend fittings

60° Vertical bend – H-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	MAHF(†)06(*)(+)6012	14⅞ 377.83	8⅝ 219.08	9¹⁵⁄₁₆ 252.41	18½ 469.90	12¾ 323.85	12⁵⁄₁₆ 312.74
			9	228.6	MAHF(†)09(*)(+)6012						
			12	304.8	MAHF(†)12(*)(+)6012						
			18	457.2	MAHF(†)18(*)(+)6012						
			24	609.6	MAHF(†)24(*)(+)6012						
			30	762	MAHF(†)30(*)(+)6012						
			36	914.4	MAHF(†)36(*)(+)6012						
			42	1,066.8	MAHF(†)42(*)(+)6012						
	24	609.6	6	152.4	MAHF(†)06(*)(+)6024	25⁵⁄₁₆ 642.94	14⅝ 371.48	16⅞ 428.63	28⅞ 733.43	18¾ 476.25	19¼ 488.95
			9	228.6	MAHF(†)09(*)(+)6024						
			12	304.8	MAHF(†)12(*)(+)6024						
			18	457.2	MAHF(†)18(*)(+)6024						
			24	609.6	MAHF(†)24(*)(+)6024						
			30	762	MAHF(†)30(*)(+)6024						
			36	914.4	MAHF(†)36(*)(+)6024						
			42	1,066.8	MAHF(†)42(*)(+)6024						
Inside bend	36	914.4	6	152.4	MAHF(†)06(*)(+)6036	35¹¹⁄₁₆ 906.46	20⅝ 523.88	23³⁄₁₆ 588.96	39⅝ 998.54	24¾ 628.65	26³⁄₁₆ 665.16
			9	228.6	MAHF(†)09(*)(+)6036						
			12	304.8	MAHF(†)12(*)(+)6036						
			18	457.2	MAHF(†)18(*)(+)6036						
			24	609.6	MAHF(†)24(*)(+)6036						
			30	762	MAHF(†)30(*)(+)6036						
			36	914.4	MAHF(†)36(*)(+)6036						
			42	1,066.8	MAHF(†)42(*)(+)6036						
	48	1,219.2	6	152.4	MAHF(†)06(*)(+)6048	46¹⁄₁₆ 1169.99	26⅝ 676.28	30¹¹⁄₁₆ 779.46	49¹¹⁄₁₆ 1262.06	30¾ 781.05	33⅛ 841.38
			9	228.6	MAHF(†)09(*)(+)6048						
			12	304.8	MAHF(†)12(*)(+)6048						
			18	457.2	MAHF(†)18(*)(+)6048						
			24	609.6	MAHF(†)24(*)(+)6048						
			30	762	MAHF(†)30(*)(+)6048						
			36	914.4	MAHF(†)36(*)(+)6048						
			42	1,066.8	MAHF(†)42(*)(+)6048						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



60° Vertical bend – H-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	MAHF(†)06(*)(+)6012	19 5/16 490.54	13 11/16 347.66	12 7/8 327.03	20 5/16 515.94	14 13/16 376.24	13 1/2 342.90	21 1/8 536.58	15 13/16 401.64	14 1/8 358.78
		9	228.6	MAHF(†)09(*)(+)6012									
		12	304.8	MAHF(†)12(*)(+)6012									
		18	457.2	MAHF(†)18(*)(+)6012									
		24	609.6	MAHF(†)24(*)(+)6012									
		30	762	MAHF(†)30(*)(+)6012									
		36	914.4	MAHF(†)36(*)(+)6012									
		42	1,066.8	MAHF(†)42(*)(+)6012									
24	609.6	6	152.4	MAHF(†)06(*)(+)6024	29 11/16 754.06	19 11/16 500.06	19 13/16 503.24	30 11/16 779.46	20 13/16 528.64	20 7/16 519.11	31 9/16 801.69	21 13/16 554.04	21 533.40
		9	228.6	MAHF(†)09(*)(+)6024									
		12	304.8	MAHF(†)12(*)(+)6024									
		18	457.2	MAHF(†)18(*)(+)6024									
		24	609.6	MAHF(†)24(*)(+)6024									
		30	762	MAHF(†)30(*)(+)6024									
		36	914.4	MAHF(†)36(*)(+)6024									
		42	1,066.8	MAHF(†)42(*)(+)6024									
36	914.4	6	152.4	MAHF(†)06(*)(+)6036	40 1/16 1017.59	25 11/16 652.46	26 11/16 677.86	41 1/16 1042.99	26 13/16 681.04	27 3/8 695.33	41 15/16 1065.21	27 13/16 706.44	27 15/16 709.61
		9	228.6	MAHF(†)09(*)(+)6036									
		12	304.8	MAHF(†)12(*)(+)6036									
		18	457.2	MAHF(†)18(*)(+)6036									
		24	609.6	MAHF(†)24(*)(+)6036									
		30	762	MAHF(†)30(*)(+)6036									
		36	914.4	MAHF(†)36(*)(+)6036									
		42	1,066.8	MAHF(†)42(*)(+)6036									
48	1,219.2	6	152.4	MAHF(†)06(*)(+)6048	50 7/16 1281.11	31 11/16 804.86	33 5/8 854.08	51 1/2 1308.10	32 13/16 833.44	34 5/16 871.54	52 5/16 1328.74	33 13/16 858.84	34 7/8 885.83
		9	228.6	MAHF(†)09(*)(+)6048									
		12	304.8	MAHF(†)12(*)(+)6048									
		18	457.2	MAHF(†)18(*)(+)6048									
		24	609.6	MAHF(†)24(*)(+)6048									
		30	762	MAHF(†)30(*)(+)6048									
		36	914.4	MAHF(†)36(*)(+)6048									
		42	1,066.8	MAHF(†)42(*)(+)6048									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

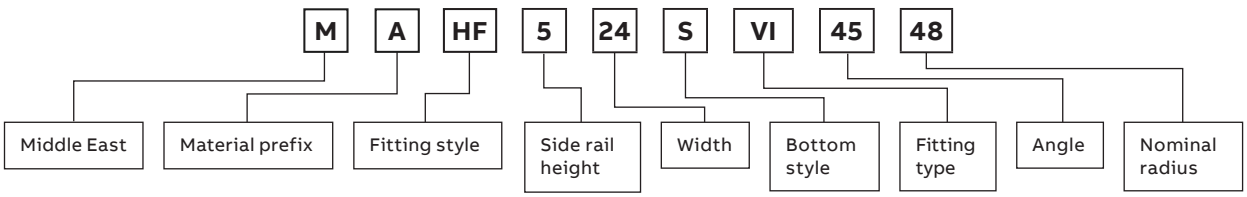
45° H-style vertical bends fittings

45° Vertical bend – H-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	MAHF(†)06(*)(+)4512	13⅜ 346.08	5⅝ 142.88	8 203.20	16⁹⁄₁₆ 420.69	9¹³⁄₁₆ 249.24	9¹¹⁄₁₆ 246.06
			9	228.6	MAHF(†)09(*)(+)4512						
			12	304.8	MAHF(†)12(*)(+)4512						
			18	457.2	MAHF(†)18(*)(+)4512						
			24	609.6	MAHF(†)24(*)(+)4512						
			30	762	MAHF(†)30(*)(+)4512						
			36	914.4	MAHF(†)36(*)(+)4512						
			42	1,066.8	MAHF(†)42(*)(+)4512						
	24	609.6	6	152.4	MAHF(†)06(*)(+)4524	22¹⁄₁₈ 561.98	9⅛ 231.78	12¹⁵⁄₁₆ 328.61	25¹⁄₁₆ 636.59	13⁵⁄₁₆ 338.14	14¹¹⁄₁₆ 373.06
			9	228.6	MAHF(†)09(*)(+)4524						
			12	304.8	MAHF(†)12(*)(+)4524						
			18	457.2	MAHF(†)18(*)(+)4524						
			24	609.6	MAHF(†)24(*)(+)4524						
			30	762	MAHF(†)30(*)(+)4524						
			36	914.4	MAHF(†)36(*)(+)4524						
			42	1,066.8	MAHF(†)42(*)(+)4524						
Inside bend	36	914.4	6	152.4	MAHF(†)06(*)(+)4536	30⁹⁄₁₆ 776.29	12¹¹⁄₁₆ 322.26	17¹⁵⁄₁₆ 455.61	33½ 850.90	16¾₁₆ 427.04	19⅝ 498.48
			9	228.6	MAHF(†)09(*)(+)4536						
			12	304.8	MAHF(†)12(*)(+)4536						
			18	457.2	MAHF(†)18(*)(+)4536						
			24	609.6	MAHF(†)24(*)(+)4536						
			30	762	MAHF(†)30(*)(+)4536						
			36	914.4	MAHF(†)36(*)(+)4536						
			42	1,066.8	MAHF(†)42(*)(+)4536						
	48	1,219.2	6	152.4	MAHF(†)06(*)(+)4548	39¹⁄₁₆ 992.19	16³⁄₁₆ 411.16	22⅞ 581.03	42 1066.80	20⅜ 517.53	24⅝ 625.48
			9	228.6	MAHF(†)09(*)(+)4548						
			12	304.8	MAHF(†)12(*)(+)4548						
			18	457.2	MAHF(†)18(*)(+)4548						
			24	609.6	MAHF(†)24(*)(+)4548						
			30	762	MAHF(†)30(*)(+)4548						
			36	914.4	MAHF(†)36(*)(+)4548						
			42	1,066.8	MAHF(†)42(*)(+)4548						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



45° Vertical bend – H-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	MAHF(†)06(*)(+)4512	17 3/16 436.56	10 11/16 271.46	10 1/16 255.59	18 457.20	11 7/8 301.63	10 9/16 268.29	18 11/16 474.66	12 7/8 327.03	10 15/16 277.81
		9	228.6	MAHF(†)09(*)(+)4512									
		12	304.8	MAHF(†)12(*)(+)4512									
		18	457.2	MAHF(†)18(*)(+)4512									
		24	609.6	MAHF(†)24(*)(+)4512									
		30	762	MAHF(†)30(*)(+)4512									
		36	914.4	MAHF(†)36(*)(+)4512									
		42	1,066.8	MAHF(†)42(*)(+)4512									
24	609.6	6	152.4	MAHF(†)06(*)(+)4524	25 11/16 652.46	14 1/4 361.95	15 1/16 382.59	26 1/2 673.10	15 3/8 390.53	15 1/2 393.70	27 3/16 690.56	16 3/4 425.45	15 15/16 404.81
		9	228.6	MAHF(†)09(*)(+)4524									
		12	304.8	MAHF(†)12(*)(+)4524									
		18	457.2	MAHF(†)18(*)(+)4524									
		24	609.6	MAHF(†)24(*)(+)4524									
		30	762	MAHF(†)30(*)(+)4524									
		36	914.4	MAHF(†)36(*)(+)4524									
		42	1,066.8	MAHF(†)42(*)(+)4524									
36	914.4	6	152.4	MAHF(†)06(*)(+)4536	34 3/16 868.36	17 3/4 450.85	20 508.00	35 889.00	18 7/8 479.43	20 1/2 520.70	35 11/16 906.46	19 7/8 504.83	20 7/8 530.23
		9	228.6	MAHF(†)09(*)(+)4536									
		12	304.8	MAHF(†)12(*)(+)4536									
		18	457.2	MAHF(†)18(*)(+)4536									
		24	609.6	MAHF(†)24(*)(+)4536									
		30	762	MAHF(†)30(*)(+)4536									
		36	914.4	MAHF(†)36(*)(+)4536									
		42	1,066.8	MAHF(†)42(*)(+)4536									
48	1,219.2	6	152.4	MAHF(†)06(*)(+)4548	42 5/8 1082.68	21 1/4 539.75	25 635.00	43 1/2 1104.90	22 7/16 581.03	27 7/16 696.91	44 3/16 1122.36	23 3/8 593.73	25 7/8 657.23
		9	228.6	MAHF(†)09(*)(+)4548									
		12	304.8	MAHF(†)12(*)(+)4548									
		18	457.2	MAHF(†)18(*)(+)4548									
		24	609.6	MAHF(†)24(*)(+)4548									
		30	762	MAHF(†)30(*)(+)4548									
		36	914.4	MAHF(†)36(*)(+)4548									
		42	1,066.8	MAHF(†)42(*)(+)4548									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

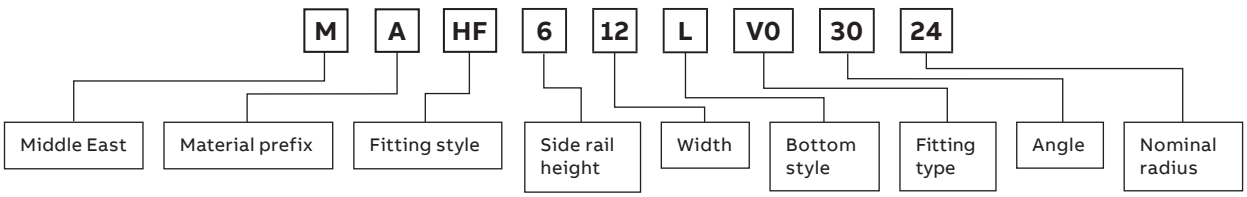
30° H-style vertical bend fittings

30° Vertical bend – H-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	MAHF(†)06(*)(+)3012	11⅝ 295.28	3⅛ 79.38	6³⁄₁₆ 157.16	13¹¹⁄₁₆ 347.66	7⁵⁄₁₆ 185.74	7⁵⁄₁₆ 185.74
			9	228.6	MAHF(†)09(*)(+)3012						
			12	304.8	MAHF(†)12(*)(+)3012						
			18	457.2	MAHF(†)18(*)(+)3012						
			24	609.6	MAHF(†)24(*)(+)3012						
			30	762	MAHF(†)30(*)(+)3012						
			36	914.4	MAHF(†)36(*)(+)3012						
			42	1,066.8	MAHF(†)42(*)(+)3012						
	24	609.6	6	152.4	MAHF(†)06(*)(+)3024	17⅝ 447.68	4¹¹⁄₁₆ 119.06	9⁷⁄₁₆ 239.71	19¹¹⁄₁₆ 500.06	8⅞ 225.43	10⁹⁄₁₆ 268.29
			9	228.6	MAHF(†)09(*)(+)3024						
			12	304.8	MAHF(†)12(*)(+)3024						
			18	457.2	MAHF(†)18(*)(+)3024						
			24	609.6	MAHF(†)24(*)(+)3024						
			30	762	MAHF(†)30(*)(+)3024						
			36	914.4	MAHF(†)36(*)(+)3024						
			42	1,066.8	MAHF(†)42(*)(+)3024						
Inside bend	36	914.4	6	152.4	MAHF(†)06(*)(+)3036	23⅝ 600.08	6³⁄₁₆ 157.16	12⅝ 320.68	25¹¹⁄₁₆ 652.46	10½ 266.70	13¾ 349.25
			9	228.6	MAHF(†)09(*)(+)3036						
			12	304.8	MAHF(†)12(*)(+)3036						
			18	457.2	MAHF(†)18(*)(+)3036						
			24	609.6	MAHF(†)24(*)(+)3036						
			30	762	MAHF(†)30(*)(+)3036						
			36	914.4	MAHF(†)36(*)(+)3036						
			42	1,066.8	MAHF(†)42(*)(+)3036						
	48	1,219.2	6	152.4	MAHF(†)06(*)(+)3048	29⅝ 752.48	7¹¹⁄₁₆ 195.26	15⅞ 403.23	31¹¹⁄₁₆ 804.86	12⅛ 307.98	17 431.80
			9	228.6	MAHF(†)09(*)(+)3048						
			12	304.8	MAHF(†)12(*)(+)3048						
			18	457.2	MAHF(†)18(*)(+)3048						
			24	609.6	MAHF(†)24(*)(+)3048						
			30	762	MAHF(†)30(*)(+)3048						
			36	914.4	MAHF(†)36(*)(+)3048						
			42	1,066.8	MAHF(†)42(*)(+)3048						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



30° Vertical bend – H-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	MAHF(†)06(*)(+)3012	14 1/8 358.78	8 3/16 207.96	7 9/16 192.09	14 11/16 373.06	9 3/8 238.13	7 7/8 200.03	13 11/16 347.66	10 5/16 261.94	8 1/8 206.38
		9	228.6	MAHF(†)09(*)(+)3012									
		12	304.8	MAHF(†)12(*)(+)3012									
		18	457.2	MAHF(†)18(*)(+)3012									
		24	609.6	MAHF(†)24(*)(+)3012									
		30	762	MAHF(†)30(*)(+)3012									
		36	914.4	MAHF(†)36(*)(+)3012									
		42	1,066.8	MAHF(†)42(*)(+)3012									
24	609.6	6	152.4	MAHF(†)06(*)(+)3024	20 1/8 511.18	9 13/16 249.24	10 13/16 274.64	20 11/16 525.46	10 15/16 277.81	11 1/8 282.58	19 11/16 500.06	11 15/16 303.21	11 3/8 288.93
		9	228.6	MAHF(†)09(*)(+)3024									
		12	304.8	MAHF(†)12(*)(+)3024									
		18	457.2	MAHF(†)18(*)(+)3024									
		24	609.6	MAHF(†)24(*)(+)3024									
		30	762	MAHF(†)30(*)(+)3024									
		36	914.4	MAHF(†)36(*)(+)3024									
		42	1,066.8	MAHF(†)42(*)(+)3024									
36	914.4	6	152.4	MAHF(†)06(*)(+)3036	26 1/8 663.58	11 3/8 288.93	14 355.60	26 11/16 677.86	12 9/16 319.09	14 5/16 363.54	25 11/16 652.46	13 9/16 344.49	14 9/16 369.89
		9	228.6	MAHF(†)09(*)(+)3036									
		12	304.8	MAHF(†)12(*)(+)3036									
		18	457.2	MAHF(†)18(*)(+)3036									
		24	609.6	MAHF(†)24(*)(+)3036									
		30	762	MAHF(†)30(*)(+)3036									
		36	914.4	MAHF(†)36(*)(+)3036									
		42	1,066.8	MAHF(†)42(*)(+)3036									
48	1,219.2	6	152.4	MAHF(†)06(*)(+)3048	32 1/8 815.98	13 330.20	17 1/4 438.15	32 11/16 830.26	14 3/16 368.30	17 9/16 446.09	31 11/16 804.86	15 1/8 384.18	17 13/16 452.44
		9	228.6	MAHF(†)09(*)(+)3048									
		12	304.8	MAHF(†)12(*)(+)3048									
		18	457.2	MAHF(†)18(*)(+)3048									
		24	609.6	MAHF(†)24(*)(+)3048									
		30	762	MAHF(†)30(*)(+)3048									
		36	914.4	MAHF(†)36(*)(+)3048									
		42	1,066.8	MAHF(†)42(*)(+)3048									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

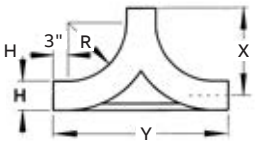
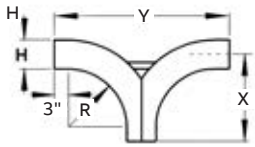
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

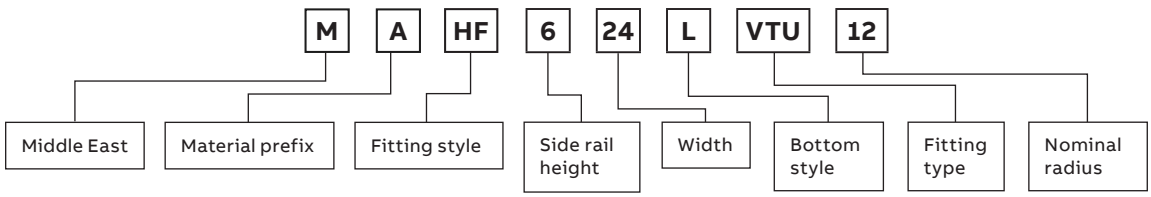
H-style vertical tee up/down fittings

Vertical tee up/down – H-style

	Nominal Radius		Nominal Width				Side rail height "H"			
							4" (101.6mm)		5" (127mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up  	12	304.8	6	152.4	MAHF(†)06(*)VTU12	MAHF(†)06(*)VTD12	17 1/16 433.39	34 3/16 944.56	17 9/16 446.09	35 1/16 890.59
			9	228.6	MAHF(†)09(*)VTU12	MAHF(†)09(*)VTD12				
			12	304.8	MAHF(†)12(*)VTU12	MAHF(†)12(*)VTD12				
			18	457.2	MAHF(†)18(*)VTU12	MAHF(†)18(*)VTD12				
			24	609.6	MAHF(†)24(*)VTU12	MAHF(†)24(*)VTD12				
			30	762	MAHF(†)30(*)VTU12	MAHF(†)30(*)VTD12				
			36	914.4	MAHF(†)36(*)VTU12	MAHF(†)36(*)VTD12				
			42	1,066.8	MAHF(†)42(*)VTU12	MAHF(†)42(*)VTD12				
	24	609.6	6	152.4	MAHF(†)06(*)VTU24	MAHF(†)06(*)VTD24	29 1/16 738.19	58 3/16 1477.96	29 9/16 750.89	59 1/16 1500.19
			9	228.6	MAHF(†)09(*)VTU24	MAHF(†)09(*)VTD24				
			12	304.8	MAHF(†)12(*)VTU24	MAHF(†)12(*)VTD24				
			18	457.2	MAHF(†)18(*)VTU24	MAHF(†)18(*)VTD24				
			24	609.6	MAHF(†)24(*)VTU24	MAHF(†)24(*)VTD24				
			30	762	MAHF(†)30(*)VTU24	MAHF(†)30(*)VTD24				
			36	914.4	MAHF(†)36(*)VTU24	MAHF(†)36(*)VTD24				
			42	1,066.8	MAHF(†)42(*)VTU24	MAHF(†)42(*)VTD24				
Down  	36	914.4	6	152.4	MAHF(†)06(*)VTU36	MAHF(†)06(*)VTD36	41 1/16 1042.99	82 3/16 2087.56	41 9/16 1055.69	83 1/16 2109.79
			9	228.6	MAHF(†)09(*)VTU36	MAHF(†)09(*)VTD36				
			12	304.8	MAHF(†)12(*)VTU36	MAHF(†)12(*)VTD36				
			18	457.2	MAHF(†)18(*)VTU36	MAHF(†)18(*)VTD36				
			24	609.6	MAHF(†)24(*)VTU36	MAHF(†)24(*)VTD36				
			30	762	MAHF(†)30(*)VTU36	MAHF(†)30(*)VTD36				
			36	914.4	MAHF(†)36(*)VTU36	MAHF(†)36(*)VTD36				
			42	1,066.8	MAHF(†)42(*)VTU36	MAHF(†)42(*)VTD36				
	48	1,219.2	6	152.4	MAHF(†)06(*)VTU48	MAHF(†)06(*)VTD48	53 1/16 1347.79	106 3/16 2697.16	53 9/16 1360.49	107 1/16 2719.39
			9	228.6	MAHF(†)09(*)VTU48	MAHF(†)09(*)VTD48				
			12	304.8	MAHF(†)12(*)VTU48	MAHF(†)12(*)VTD48				
			18	457.2	MAHF(†)18(*)VTU48	MAHF(†)18(*)VTD48				
			24	609.6	MAHF(†)24(*)VTU48	MAHF(†)24(*)VTD48				
			30	762	MAHF(†)30(*)VTU48	MAHF(†)30(*)VTD48				
			36	914.4	MAHF(†)36(*)VTU48	MAHF(†)36(*)VTD48				
			42	1,066.8	MAHF(†)42(*)VTU48	MAHF(†)42(*)VTD48				

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-Style. These systems are interchangeable.

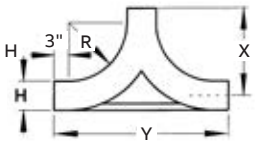
Fitting number selection

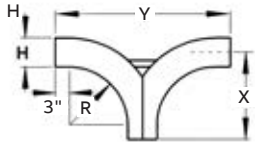


—

Vertical tee up/down – H-style (continued)

	Nominal Radius		Nominal Width				Side rail height "H"			
							6" (152.4mm)		7" (177.8mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up	12	304.8	6	152.4	MAHF(†)06(*)VTU12	MAHF(†)06(*)VTD12	18⅛ 460.38	36¼ 920.75	18⅝ 473.08	37¼ 946.15
			9	228.6	MAHF(†)09(*)VTU12	MAHF(†)09(*)VTD12				
			12	304.8	MAHF(†)12(*)VTU12	MAHF(†)12(*)VTD12				
			18	457.2	MAHF(†)18(*)VTU12	MAHF(†)18(*)VTD12				
			24	609.6	MAHF(†)24(*)VTU12	MAHF(†)24(*)VTD12				
			30	762	MAHF(†)30(*)VTU12	MAHF(†)30(*)VTD12				
			36	914.4	MAHF(†)36(*)VTU12	MAHF(†)36(*)VTD12				
			42	1,066.8	MAHF(†)42(*)VTU12	MAHF(†)42(*)VTD12				
	24	609.6	6	152.4	MAHF(†)06(*)VTU24	MAHF(†)06(*)VTD24	30⅛ 765.18	60¼ 1530.35	30⅝ 777.88	61¼ 1555.75
			9	228.6	MAHF(†)09(*)VTU24	MAHF(†)09(*)VTD24				
			12	304.8	MAHF(†)12(*)VTU24	MAHF(†)12(*)VTD24				
			18	457.2	MAHF(†)18(*)VTU24	MAHF(†)18(*)VTD24				
			24	609.6	MAHF(†)24(*)VTU24	MAHF(†)24(*)VTD24				
			30	762	MAHF(†)30(*)VTU24	MAHF(†)30(*)VTD24				
			36	914.4	MAHF(†)36(*)VTU24	MAHF(†)36(*)VTD24				
			42	1,066.8	MAHF(†)42(*)VTU24	MAHF(†)42(*)VTD24				
Down	36	914.4	6	152.4	MAHF(†)06(*)VTU36	MAHF(†)06(*)VTD36	42⅛ 1069.98	84¼ 2139.95	42⅝ 1082.68	85¼ 2165.35
			9	228.6	MAHF(†)09(*)VTU36	MAHF(†)09(*)VTD36				
			12	304.8	MAHF(†)12(*)VTU36	MAHF(†)12(*)VTD36				
			18	457.2	MAHF(†)18(*)VTU36	MAHF(†)18(*)VTD36				
			24	609.6	MAHF(†)24(*)VTU36	MAHF(†)24(*)VTD36				
			30	762	MAHF(†)30(*)VTU36	MAHF(†)30(*)VTD36				
			36	914.4	MAHF(†)36(*)VTU36	MAHF(†)36(*)VTD36				
			42	1,066.8	MAHF(†)42(*)VTU36	MAHF(†)42(*)VTD36				
	48	1,219.2	6	152.4	MAHF(†)06(*)VTU48	MAHF(†)06(*)VTD48	54⅛ 1374.78	108¼ 2749.55	54⅝ 1387.48	109¼ 2774.95
			9	228.6	MAHF(†)09(*)VTU48	MAHF(†)09(*)VTD48				
			12	304.8	MAHF(†)12(*)VTU48	MAHF(†)12(*)VTD48				
			18	457.2	MAHF(†)18(*)VTU48	MAHF(†)18(*)VTD48				
			24	609.6	MAHF(†)24(*)VTU48	MAHF(†)24(*)VTD48				
			30	762	MAHF(†)30(*)VTU48	MAHF(†)30(*)VTD48				
			36	914.4	MAHF(†)36(*)VTU48	MAHF(†)36(*)VTD48				
			42	1,066.8	MAHF(†)42(*)VTU48	MAHF(†)42(*)VTD48				





(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-Style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

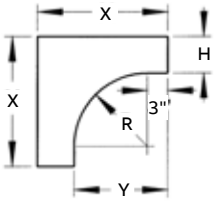
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

H-style cable support fittings

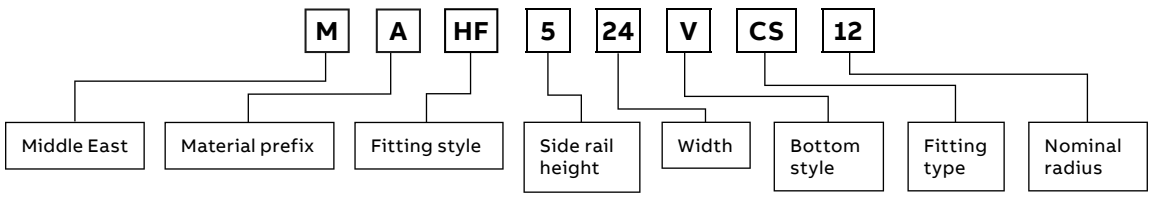
Cable support fitting – H-style



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Side rail height "H" 4" (101.6mm) X (in) / (mm)	4" (101.6mm) Y (in) / (mm)	5" (127mm) X (in) / (mm)	5" (127mm) Y (in) / (mm)	6" (152.4mm) X (in) / (mm)	6" (152.4mm) Y (in) / (mm)
12	304.8	6	152.4	MAHF(†)06(*)(+)9012	19 3/16 487.36	15 381.00	20 1/16 509.59	15 381.00	21 1/4 539.75	15 381.00
		9	228.6	MAHF(†)09(*)(+)9012						
		12	304.8	MAHF(†)12(*)(+)9012						
		18	457.2	MAHF(†)18(*)(+)9012						
		24	609.6	MAHF(†)24(*)(+)9012						
		30	762	MAHF(†)30(*)(+)9012						
		36	914.4	MAHF(†)36(*)(+)9012						
		42	1,066.8	MAHF(†)42(*)(+)9012						
24	609.6	6	152.4	MAHF(†)06(*)(+)9024	31 3/16 792.16	27 685.80	32 1/16 814.39	27 685.80	33 1/4 844.55	27 685.80
		9	228.6	MAHF(†)09(*)(+)9024						
		12	304.8	MAHF(†)12(*)(+)9024						
		18	457.2	MAHF(†)18(*)(+)9024						
		24	609.6	MAHF(†)24(*)(+)9024						
		30	762	MAHF(†)30(*)(+)9024						
		36	914.4	MAHF(†)36(*)(+)9024						
		42	1,066.8	MAHF(†)42(*)(+)9024						
36	914.4	6	152.4	MAHF(†)06(*)(+)9036	43 3/16 1096.96	39 990.60	44 1/16 1119.19	39 990.60	45 1/4 1149.35	39 990.60
		9	228.6	MAHF(†)09(*)(+)9036						
		12	304.8	MAHF(†)12(*)(+)9036						
		18	457.2	MAHF(†)18(*)(+)9036						
		24	609.6	MAHF(†)24(*)(+)9036						
		30	762	MAHF(†)30(*)(+)9036						
		36	914.4	MAHF(†)36(*)(+)9036						
		42	1,066.8	MAHF(†)42(*)(+)9036						
48	1,219.2	6	152.4	MAHF(†)06(*)(+)9048	55 3/16 1401.76	51 1295.40	56 1/16 1423.99	51 1295.40	57 1/4 1454.15	51 1295.40
		9	228.6	MAHF(†)09(*)(+)9048						
		12	304.8	MAHF(†)12(*)(+)9048						
		18	457.2	MAHF(†)18(*)(+)9048						
		24	609.6	MAHF(†)24(*)(+)9048						
		30	762	MAHF(†)30(*)(+)9048						
		36	914.4	MAHF(†)36(*)(+)9048						
		42	1,066.8	MAHF(†)42(*)(+)9048						

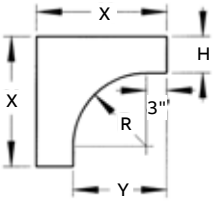
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

Cable support fitting – H-style (continued)



Nominal Radius		Nominal Width			Side rail height "H" 7" (177.8mm)	
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)
12	304.8	6	152.4	MAHF(†)06(*)(+)9012	22¼ 565.15	15 381.00
		9	228.6	MAHF(†)09(*)(+)9012		
		12	304.8	MAHF(†)12(*)(+)9012		
		18	457.2	MAHF(†)18(*)(+)9012		
		24	609.6	MAHF(†)24(*)(+)9012		
		30	762	MAHF(†)30(*)(+)9012		
		36	914.4	MAHF(†)36(*)(+)9012		
		42	1,066.8	MAHF(†)42(*)(+)9012		
24	609.6	6	152.4	MAHF(†)06(*)(+)9024	34¼ 869.95	27 685.80
		9	228.6	MAHF(†)09(*)(+)9024		
		12	304.8	MAHF(†)12(*)(+)9024		
		18	457.2	MAHF(†)18(*)(+)9024		
		24	609.6	MAHF(†)24(*)(+)9024		
		30	762	MAHF(†)30(*)(+)9024		
		36	914.4	MAHF(†)36(*)(+)9024		
		42	1,066.8	MAHF(†)42(*)(+)9024		
36	914.4	6	152.4	MAHF(†)06(*)(+)9036	46¼ 1174.75	39 990.60
		9	228.6	MAHF(†)09(*)(+)9036		
		12	304.8	MAHF(†)12(*)(+)9036		
		18	457.2	MAHF(†)18(*)(+)9036		
		24	609.6	MAHF(†)24(*)(+)9036		
		30	762	MAHF(†)30(*)(+)9036		
		36	914.4	MAHF(†)36(*)(+)9036		
		42	1,066.8	MAHF(†)42(*)(+)9036		
48	1,219.2	6	152.4	MAHF(†)06(*)(+)9048	58¼ 1479.55	51 1295.40
		9	228.6	MAHF(†)09(*)(+)9048		
		12	304.8	MAHF(†)12(*)(+)9048		
		18	457.2	MAHF(†)18(*)(+)9048		
		24	609.6	MAHF(†)24(*)(+)9048		
		30	762	MAHF(†)30(*)(+)9048		
		36	914.4	MAHF(†)36(*)(+)9048		
		42	1,066.8	MAHF(†)42(*)(+)9048		

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

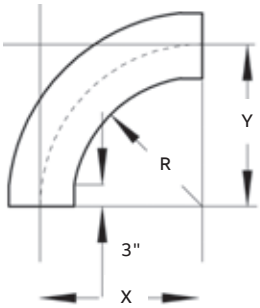
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

90°/60° U-style horizontal bend fittings

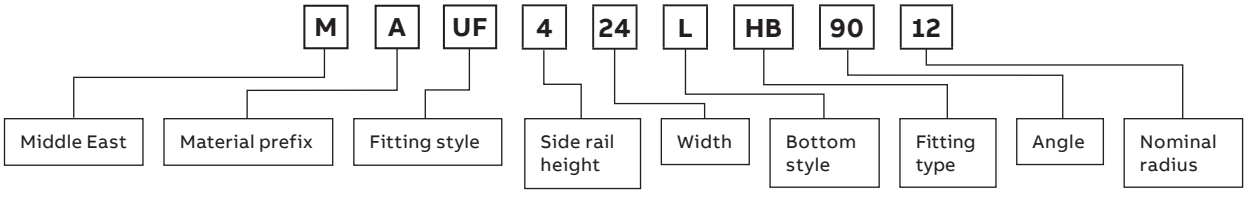
90° Horizontal bend – U-style



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	6	152.4	MAUF(†)06(*)HB9012	15	381.00	15	381.00
		9	228.6	MAUF(†)09(*)HB9012	16½	419.10	16½	419.10
		12	304.8	MAUF(†)12(*)HB9012	18	457.20	18	457.20
		18	457.2	MAUF(†)18(*)HB9012	21	533.40	21	533.40
		24	609.6	MAUF(†)24(*)HB9012	24	609.60	24	609.60
		30	762	MAUF(†)30(*)HB9012	27	685.80	27	685.80
		36	914.4	MAUF(†)36(*)HB9012	30	762.00	30	762.00
		42	1,066.8	MAUF(†)42(*)HB9012	33	838.20	33	838.20
24	609.6	6	152.4	MAUF(†)06(*)HB9024	27	685.80	27	685.80
		9	228.6	MAUF(†)09(*)HB9024	28½	723.90	28½	723.90
		12	304.8	MAUF(†)12(*)HB9024	30	762.00	30	762.00
		18	457.2	MAUF(†)18(*)HB9024	33	838.20	33	838.20
		24	609.6	MAUF(†)24(*)HB9024	36	914.40	36	914.40
		30	762	MAUF(†)30(*)HB9024	39	990.60	39	990.60
		36	914.4	MAUF(†)36(*)HB9024	42	1066.80	42	1066.80
		42	1,066.8	MAUF(†)42(*)HB9024	45	1143.00	45	1143.00
36	914.4	6	152.4	MAUF(†)06(*)HB9036	39	990.60	39	990.60
		9	228.6	MAUF(†)09(*)HB9036	40½	1028.70	40½	1028.70
		12	304.8	MAUF(†)12(*)HB9036	45	1143.00	45	1143.00
		18	457.2	MAUF(†)18(*)HB9036	48	1219.20	48	1219.20
		24	609.6	MAUF(†)24(*)HB9036	48	1219.20	48	1219.20
		30	762	MAUF(†)30(*)HB9036	51	1295.40	51	1295.40
		36	914.4	MAUF(†)36(*)HB9036	54	1371.60	54	1371.60
		42	1,066.8	MAUF(†)42(*)HB9036	57	1447.80	57	1447.80
48	1,219.2	6	152.4	MAUF(†)06(*)HB9048	51	1295.40	51	1295.40
		9	228.6	MAUF(†)09(*)HB9048	52½	1333.50	52½	1333.50
		12	304.8	MAUF(†)12(*)HB9048	54	1371.60	54	1371.60
		18	457.2	MAUF(†)18(*)HB9048	57	1447.80	57	1447.80
		24	609.6	MAUF(†)24(*)HB9048	60	1524.00	60	1524.00
		30	762	MAUF(†)30(*)HB9048	63	1600.20	63	1600.20
		36	914.4	MAUF(†)36(*)HB9048	66	1676.40	66	1676.40
		42	1,066.8	MAUF(†)42(*)HB9048	69	1752.60	69	1752.60

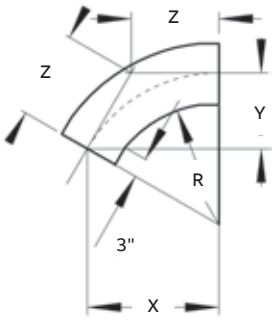
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

60° Horizontal bend – H-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	MAUF(†)06(*)HB6012	14⅞	377.83	8⅝	219.08	9 15⁄16	252.41
		9	228.6	MAUF(†)09(*)HB6012	16 3⁄16	411.16	9⅜	238.13	10 13⁄16	274.64
		12	304.8	MAUF(†)12(*)HB6012	17½	444.50	10⅛	257.18	11 11⁄16	296.86
		18	457.2	MAUF(†)18(*)HB6012	20 1⁄16	509.59	11⅝	295.28	13⅜	339.73
		24	609.6	MAUF(†)24(*)HB6012	22 11⁄16	576.26	13⅛	333.38	15⅛	384.18
		30	762	MAUF(†)30(*)HB6012	25 5⁄16	642.94	14⅝	371.48	16⅞	428.63
		36	914.4	MAUF(†)36(*)HB6012	27⅞	708.03	16⅛	409.58	18 9⁄16	471.49
		42	1,066.8	MAUF(†)42(*)HB6012	30½	774.70	17⅝	447.68	20 5⁄16	515.94
24	609.6	6	152.4	MAUF(†)06(*)HB6024	25 5⁄16	896.94	14⅝	371.48	16⅞	428.63
		9	228.6	MAUF(†)09(*)HB6024	26 9⁄16	674.69	15⅜	390.53	17¾	450.85
		12	304.8	MAUF(†)12(*)HB6024	27⅞	708.03	16⅛	409.58	18 9⁄16	471.49
		18	457.2	MAUF(†)18(*)HB6024	30½	774.70	17⅝	447.68	20 5⁄16	515.94
		24	609.6	MAUF(†)24(*)HB6024	33 1⁄16	839.79	19⅛	485.78	22 1⁄16	560.39
		30	762	MAUF(†)30(*)HB6024	35 11⁄16	906.46	20⅝	523.88	23 13⁄16	350.84
		36	914.4	MAUF(†)36(*)HB6024	38¼	971.55	22⅛	561.98	25½	647.70
		42	1,066.8	MAUF(†)42(*)HB6024	40⅞	1038.23	23⅝	600.08	27¼	692.15
36	914.4	6	152.4	MAUF(†)06(*)HB6036	35 11⁄16	906.46	20⅝	523.88	30 11⁄16	779.46
		9	228.6	MAUF(†)09(*)HB6036	37	939.80	22⅛	561.98	26⅜	669.93
		12	304.8	MAUF(†)12(*)HB6036	38¼	971.55	23⅝	600.08	27¼	692.15
		18	457.2	MAUF(†)18(*)HB6036	40⅞	1038.23	23⅝	600.08	29	736.60
		24	609.6	MAUF(†)24(*)HB6036	43½	1104.90	25⅛	638.18	30 11⁄16	779.46
		30	762	MAUF(†)30(*)HB6036	46 1⁄16	1169.99	25⅝	650.88	32 7⁄16	823.91
		36	914.4	MAUF(†)36(*)HB6036	48 11⁄16	1236.66	28⅛	714.38	34 3⁄16	868.36
		42	1,066.8	MAUF(†)42(*)HB6036	51¼	1301.75	29⅝	752.48	35 5⁄16	896.94
48	1,219.2	6	152.4	MAUF(†)06(*)HB6048	46 1⁄16	1169.99	26⅝	676.28	30 11⁄16	779.46
		9	228.6	MAUF(†)09(*)HB6048	47⅜	1203.33	27⅜	695.33	31 9⁄16	801.69
		12	304.8	MAUF(†)12(*)HB6048	48 11⁄16	1236.66	28⅛	714.38	32 7⁄16	823.91
		18	457.2	MAUF(†)18(*)HB6048	51 1⁄16	1317.63	29⅝	752.48	34 3⁄16	868.36
		24	609.6	MAUF(†)24(*)HB6048	53⅞	1368.43	31⅛	790.58	35 5⁄16	912.81
		30	762	MAUF(†)30(*)HB6048	56 7⁄16	1433.51	32⅝	828.68	37⅝	911.23
		36	914.4	MAUF(†)36(*)HB6048	59 1⁄16	1500.19	34⅛	866.78	39⅜	1000.13
		42	1,066.8	MAUF(†)42(*)HB6048	61 11⁄16	1566.86	35⅝	904.88	41⅛	1044.58

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

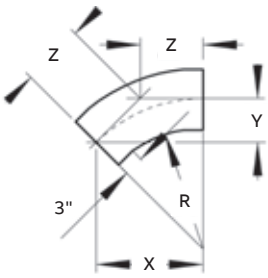
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°, 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

45°/30° U-style horizontal bend fittings

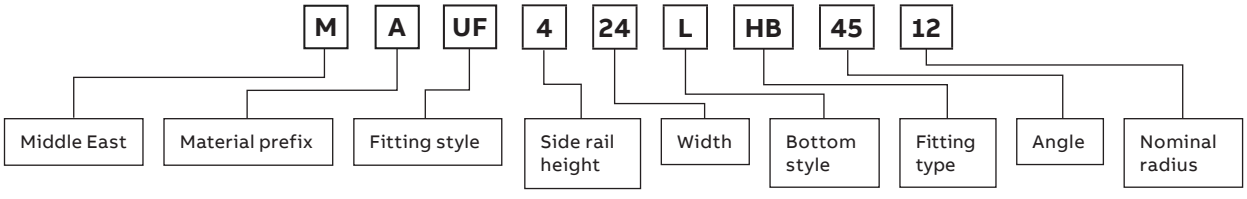
45° Horizontal bend – U-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	MAUF(†)06(*)HB4512	13⅜	346.08	5⅜	142.88	8	203.20
		9	228.6	MAUF(†)09(*)HB4512	14¹¹⁄₁₆	373.06	6¹⁄₁₆	153.99	8⁹⁄₁₆	217.49
		12	304.8	MAUF(†)12(*)HB4512	15¾	400.05	6½	165.10	9³⁄₁₆	233.36
		18	457.2	MAUF(†)18(*)HB4512	17⅞	454.03	7⅜	187.33	10⁷⁄₁₆	265.11
		24	609.6	MAUF(†)24(*)HB4512	20	508.00	8¼	209.55	11¹¹⁄₁₆	296.86
		30	762	MAUF(†)30(*)HB4512	22¹⁄₁₆	560.39	9⅛	231.78	12¹⁵⁄₁₆	328.61
		36	914.4	MAUF(†)36(*)HB4512	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		42	1,066.8	MAUF(†)42(*)HB4512	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	15⁷⁄₁₆	392.11
24	609.6	6	152.4	MAUF(†)06(*)HB4524	22¹⁄₁₆	560.39	9⅛	231.78	12¹⁵⁄₁₆	328.61
		9	228.6	MAUF(†)09(*)HB4524	23⅛	587.38	9⁹⁄₁₆	242.89	13⁹⁄₁₆	344.49
		12	304.8	MAUF(†)12(*)HB4524	24³⁄₁₆	614.36	10	254.00	14³⁄₁₆	360.36
		18	457.2	MAUF(†)18(*)HB4524	26⁵⁄₁₆	668.34	10¹⁵⁄₁₆	277.81	15⁷⁄₁₆	392.11
		24	609.6	MAUF(†)24(*)HB4524	28⁷⁄₁₆	722.31	11¹³⁄₁₆	300.04	16¹¹⁄₁₆	423.86
		30	762	MAUF(†)30(*)HB4524	30⁹⁄₁₆	776.29	12¹¹⁄₁₆	322.26	17¹⁵⁄₁₆	455.61
		36	914.4	MAUF(†)36(*)HB4524	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19⅛	485.78
		42	1,066.8	MAUF(†)42(*)HB4524	34¹³⁄₁₆	884.24	14⅞	377.83	20⅜	517.53
36	914.4	6	152.4	MAUF(†)06(*)HB4536	30⁹⁄₁₆	776.29	12¹¹⁄₁₆	322.26	17¹⁵⁄₁₆	455.61
		9	228.6	MAUF(†)09(*)HB4536	31⅝	803.28	13⅛	333.38	18⁹⁄₁₆	471.49
		12	304.8	MAUF(†)12(*)HB4536	32¹¹⁄₁₆	830.26	13⁹⁄₁₆	344.49	19⅛	485.78
		18	457.2	MAUF(†)18(*)HB4536	34¹³⁄₁₆	884.24	14⁷⁄₁₆	366.71	20⅜	517.53
		24	609.6	MAUF(†)24(*)HB4536	36¹⁵⁄₁₆	938.21	15⁵⁄₁₆	388.94	21⅝	549.28
		30	762	MAUF(†)30(*)HB4536	39¹⁄₁₆	992.19	16³⁄₁₆	411.16	22⅞	581.03
		36	914.4	MAUF(†)36(*)HB4536	41³⁄₁₆	1046.16	17¹⁄₁₆	433.39	24⅛	612.78
		42	1,066.8	MAUF(†)42(*)HB4536	43⅝	1100.14	17¹⁵⁄₁₆	455.61	25⅜	644.53
48	1,219.2	6	152.4	MAUF(†)06(*)HB4548	39¹⁄₁₆	992.19	16³⁄₁₆	411.16	22⅞	581.03
		9	228.6	MAUF(†)09(*)HB4548	40⅛	1019.18	16⅜	415.93	23½	596.90
		12	304.8	MAUF(†)12(*)HB4548	41³⁄₁₆	1046.16	17¹⁄₁₆	433.39	24⅛	612.78
		18	457.2	MAUF(†)18(*)HB4548	43⅝	1100.14	17¹⁵⁄₁₆	455.61	25⅜	644.53
		24	609.6	MAUF(†)24(*)HB4548	45⁷⁄₁₆	1154.11	18¹³⁄₁₆	477.84	26⅝	676.28
		30	762	MAUF(†)30(*)HB4548	47⅝	1208.09	19¹¹⁄₁₆	500.06	27⅞	708.03
		36	914.4	MAUF(†)36(*)HB4548	49¹¹⁄₁₆	1262.06	20⅝	522.29	29⅛	739.78
		42	1,066.8	MAUF(†)42(*)HB4548	51¹³⁄₁₆	1316.04	21⁷⁄₁₆	544.51	30⁵⁄₁₆	769.94

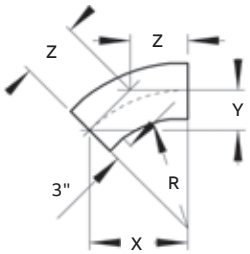
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

30° Horizontal bend – U-style



Nominal Radius		Nominal Width			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	6	152.4	MAUF(†)06(*)HB3012	11⅝	295.28	3⅛	79.38	6³⁄₁₆	157.16
		9	228.6	MAUF(†)09(*)HB3012	12⅜	314.33	3⁵⁄₁₆	84.14	6⅝	168.28
		12	304.8	MAUF(†)12(*)HB3012	13½	342.90	3½	88.90	7	177.80
		18	457.2	MAUF(†)18(*)HB3012	14⅝	371.48	3¹⁵⁄₁₆	795.34	7¹³⁄₁₆	198.44
		24	609.6	MAUF(†)24(*)HB3012	16⅛	409.58	4⅝	109.54	8⅝	219.08
		30	762	MAUF(†)30(*)HB3012	17⅝	447.68	4¹¹⁄₁₆	119.06	9⁷⁄₁₆	239.71
		36	914.4	MAUF(†)36(*)HB3012	19⅛	485.78	5⅛	130.18	10¼	260.35
		42	1,066.8	MAUF(†)42(*)HB3012	20⅝	523.88	5½	139.70	11¹⁄₁₆	280.99
24	609.6	6	152.4	MAUF(†)06(*)HB3024	17⅝	447.68	4¹¹⁄₁₆	119.06	9⁷⁄₁₆	239.71
		9	228.6	MAUF(†)09(*)HB3024	18⅜	466.73	4¹⁵⁄₁₆	125.41	9¹³⁄₁₆	249.24
		12	304.8	MAUF(†)12(*)HB3024	19⅛	485.78	5²⁄₁₆	130.18	10¹⁴⁄₁₆	276.23
		18	457.2	MAUF(†)18(*)HB3024	20⅝	523.88	5⅝	139.70	11¹⁄₁₆	280.99
		24	609.6	MAUF(†)24(*)HB3024	22⅛	561.98	5¹⁵⁄₁₆	150.81	11¹³⁄₁₆	300.04
		30	762	MAUF(†)30(*)HB3024	23⅝	600.08	6⁵⁄₁₆	160.34	12⅝	320.68
		36	914.4	MAUF(†)36(*)HB3024	25⅛	638.18	6¹²⁄₁₆	171.45	13⁷⁄₁₆	341.31
		42	1,066.8	MAUF(†)42(*)HB3024	26⅝	676.28	7⅛	180.98	14¼	361.95
36	914.4	6	152.4	MAUF(†)06(*)HB3036	23⅝	600.08	6⁵⁄₁₆	160.34	12⅝	320.68
		9	228.6	MAUF(†)09(*)HB3036	24⅜	619.13	6½	165.10	13¹⁄₁₆	331.79
		12	304.8	MAUF(†)12(*)HB3036	25⅛	638.18	6¾	171.45	13⁷⁄₁₆	341.31
		18	457.2	MAUF(†)18(*)HB3036	26⅝	676.28	7¼	184.15	14½	368.30
		24	609.6	MAUF(†)24(*)HB3036	28⅛	714.38	7½	190.50	15¹⁄₁₆	382.59
		30	762	MAUF(†)30(*)HB3036	29⅝	752.48	7¹⁵⁄₁₆	201.61	15⅞	403.23
		36	914.4	MAUF(†)36(*)HB3036	31⅛	790.58	8⁵⁄₁₆	211.14	16¹¹⁄₁₆	423.86
		42	1,066.8	MAUF(†)42(*)HB3036	32⅝	828.68	8¾	222.25	17½	444.50
48	1,219.2	6	152.4	MAUF(†)06(*)HB3048	29⅝	752.48	7¹⁵⁄₁₆	201.61	15⅞	403.23
		9	228.6	MAUF(†)09(*)HB3048	30⅜	771.53	8⅛	206.38	16¹¹⁄₁₆	423.86
		12	304.8	MAUF(†)12(*)HB3048	31⅛	790.58	8⁵⁄₁₆	211.14	17¹⁄₁₆	433.39
		18	457.2	MAUF(†)18(*)HB3048	32⅝	828.68	8¾	222.25	17½	444.50
		24	609.6	MAUF(†)24(*)HB3048	34⅛	866.78	9⅛	231.78	18¼	463.55
		30	762	MAUF(†)30(*)HB3048	35⅝	904.88	9⁹⁄₁₆	242.89	19¹⁄₁₆	484.19
		36	914.4	MAUF(†)36(*)HB3048	37⅛	942.98	9¹⁵⁄₁₆	252.41	19⅞	504.83
		42	1,066.8	MAUF(†)42(*)HB3048	38⅝	981.08	10⅜	261.94	20¹¹⁄₁₆	525.46

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

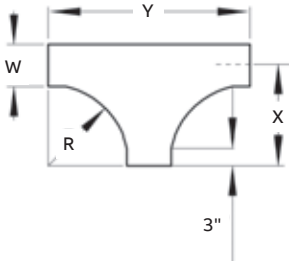
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°, 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

U-style horizontal tee and cross fittings

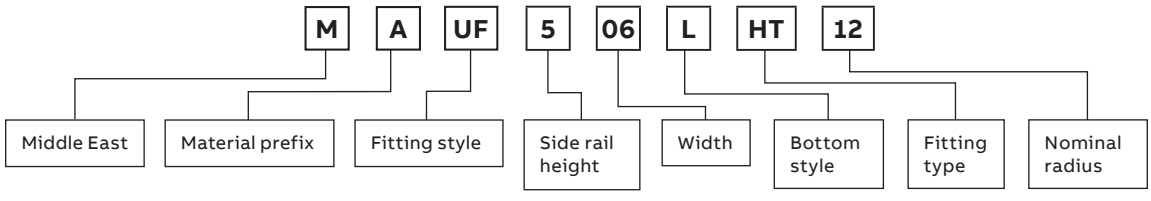
Horizontal tee – U-style



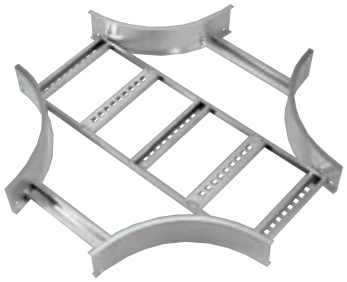
Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	6	152.4	MAUF(†)06(*)HT12	15	381.00	30	762.00
		9	228.6	MAUF(†)09(*)HT12	16½	419.10	33	838.20
		12	304.8	MAUF(†)12(*)HT12	18	457.20	36	914.40
		18	457.2	MAUF(†)18(*)HT12	21	533.40	42	1066.80
		24	609.6	MAUF(†)24(*)HT12	24	609.60	48	1219.20
		30	762	MAUF(†)30(*)HT12	27	685.80	54	1371.60
		36	914.4	MAUF(†)36(*)HT12	30	762.00	60	1524.00
		42	1,066.8	MAUF(†)42(*)HT12	33	838.20	66	1676.40
24	609.6	6	152.4	MAUF(†)06(*)HT24	27	685.80	54	1371.60
		9	228.6	MAUF(†)09(*)HT24	28½	723.90	57	1447.80
		12	304.8	MAUF(†)12(*)HT24	30	762.00	60	1524.00
		18	457.2	MAUF(†)18(*)HT24	33	838.20	66	1676.40
		24	609.6	MAUF(†)24(*)HT24	36	914.40	72	1828.80
		30	762	MAUF(†)30(*)HT24	39	990.60	78	1981.20
		36	914.4	MAUF(†)36(*)HT24	42	1066.80	84	2133.60
		42	1,066.8	MAUF(†)42(*)HT24	45	1143.00	90	2286.00
36	914.4	6	152.4	MAUF(†)06(*)HT36	39	990.60	78	1981.20
		9	228.6	MAUF(†)09(*)HT36	40½	1028.70	81	2057.40
		12	304.8	MAUF(†)12(*)HT36	42	1066.80	84	2133.60
		18	457.2	MAUF(†)18(*)HT36	45	1143.00	90	2286.00
		24	609.6	MAUF(†)24(*)HT36	48	1219.20	96	2438.40
		30	762	MAUF(†)30(*)HT36	51	1295.40	102	2590.80
		36	914.4	MAUF(†)36(*)HT36	54	1371.60	108	2743.20
		42	1,066.8	MAUF(†)42(*)HT36	57	1447.80	114	2895.60
48	1,219.2	6	152.4	MAUF(†)06(*)HT48	51	1295.40	102	2590.80
		9	228.6	MAUF(†)09(*)HT48	52½	1333.50	105	2667.00
		12	304.8	MAUF(†)12(*)HT48	57	1447.80	108	2743.20
		18	457.2	MAUF(†)18(*)HT48	57	1447.80	114	2895.60
		24	609.6	MAUF(†)24(*)HT48	60	1524.00	120	3048.00
		30	762	MAUF(†)30(*)HT48	63	1600.20	126	3200.40
		36	914.4	MAUF(†)36(*)HT48	66	1676.40	132	3352.80
		42	1,066.8	MAUF(†)42(*)HT48	69	1752.60	138	3505.20

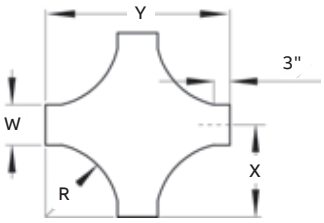
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—
Horizontal cross – U-style





Nominal Radius		Nominal Width			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12	304.8	6	152.4	MAUF(†)06(*)HX12	15	381.00	30	762.00
		9	228.6	MAUF(†)09(*)HX12	16½	419.10	33	838.20
		12	304.8	MAUF(†)12(*)HX12	18	457.20	36	914.40
		18	457.2	MAUF(†)18(*)HX12	21	533.40	42	1066.80
		24	609.6	MAUF(†)24(*)HX12	24	609.60	48	1219.20
		30	762	MAUF(†)30(*)HX12	27	685.80	54	1371.60
		36	914.4	MAUF(†)36(*)HX12	30	762.00	60	1524.00
		42	1,066.8	MAUF(†)42(*)HX12	33	838.20	66	1676.40
24	609.6	6	152.4	MAUF(†)06(*)HX24	27	685.80	54	1371.60
		9	228.6	MAUF(†)09(*)HX24	28½	723.90	57	1447.80
		12	304.8	MAUF(†)12(*)HX24	30	762.00	60	1524.00
		18	457.2	MAUF(†)18(*)HX24	33	838.20	66	1676.40
		24	609.6	MAUF(†)24(*)HX24	36	914.40	72	1828.80
		30	762	MAUF(†)30(*)HX24	39	990.60	78	1981.20
		36	914.4	MAUF(†)36(*)HX24	42	1066.80	84	2133.60
		42	1,066.8	MAUF(†)42(*)HX24	45	1143.00	90	2286.00
36	914.4	6	152.4	MAUF(†)06(*)HX36	39	990.60	78	1981.20
		9	228.6	MAUF(†)09(*)HX36	40½	1028.70	81	2057.40
		12	304.8	MAUF(†)12(*)HX36	42	1066.80	84	2133.60
		18	457.2	MAUF(†)18(*)HX36	45	1143.00	90	2286.00
		24	609.6	MAUF(†)24(*)HX36	48	1219.20	96	2438.40
		30	762	MAUF(†)30(*)HX36	51	1295.40	102	2590.80
		36	914.4	MAUF(†)36(*)HX36	54	1371.60	108	2743.20
		42	1,066.8	MAUF(†)42(*)HX36	57	1447.80	114	2895.60
48	1,219.2	6	152.4	MAUF(†)06(*)HX48	51	1295.40	102	2590.80
		9	228.6	MAUF(†)09(*)HX48	52½	1333.50	105	2667.00
		12	304.8	MAUF(†)12(*)HX48	57	1447.80	108	2743.20
		18	457.2	MAUF(†)18(*)HX48	57	1447.80	114	2895.60
		24	609.6	MAUF(†)24(*)HX48	60	1524.00	120	3048.00
		30	762	MAUF(†)30(*)HX48	63	1600.20	126	3200.40
		36	914.4	MAUF(†)36(*)HX48	66	1676.40	132	3352.80
		42	1,066.8	MAUF(†)42(*)HX48	69	1752.60	138	3505.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Tees include two pairs/crosses include three pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—
*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

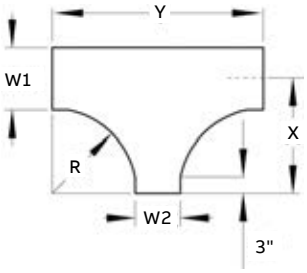
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

U-style horizontal reducing tee

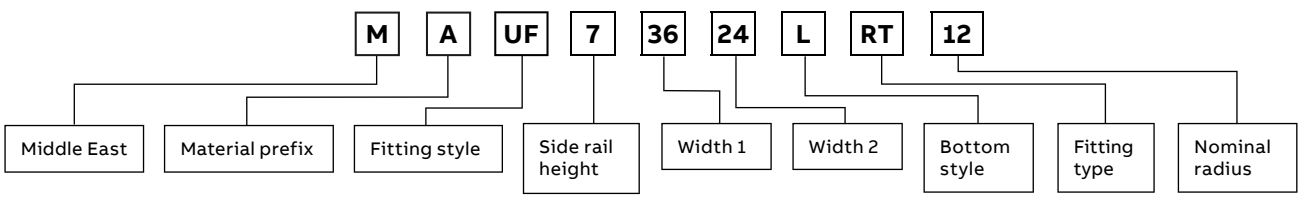
Horizontal reducing tee – U-style



Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	MAUF(†)4236(*)RT(+)	33	838.20	60	1524.00	45	1143.00	84	2133.60
		30	762	MAUF(†)4230(*)RT(+)	33	838.20	54	1371.60	45	1143.00	78	1981.20
		24	609.6	MAUF(†)4224(*)RT(+)	33	838.20	48	1219.20	45	1143.00	72	1828.80
		18	457.2	MAUF(†)4218(*)RT(+)	33	838.20	42	1066.80	45	1143.00	66	1676.40
		12	304.8	MAUF(†)4212(*)RT(+)	33	838.20	36	914.40	45	1143.00	60	1524.00
		9	228.6	MAUF(†)4209(*)RT(+)	33	838.20	33	838.20	45	1143.00	57	1447.80
		6	152.4	MAUF(†)4206(*)RT(+)	33	838.20	30	762.00	45	1143.00	54	1371.60
36	914.4	30	762	MAUF(†)3630(*)RT(+)	30	762.00	54	1371.60	42	1066.80	78	1981.20
		24	609.6	MAUF(†)3624(*)RT(+)	30	762.00	48	1219.20	42	1066.80	72	1828.80
		18	457.2	MAUF(†)3618(*)RT(+)	30	762.00	42	1066.80	42	1066.80	66	1676.40
		12	304.8	MAUF(†)3612(*)RT(+)	30	762.00	36	914.40	42	1066.80	60	1524.00
		9	228.6	MAUF(†)3609(*)RT(+)	30	762.00	33	838.20	42	1066.80	57	1447.80
		6	152.4	MAUF(†)3606(*)RT(+)	30	762.00	30	762.00	42	1066.80	54	1371.60
30	762	24	609.6	MAUF(†)3024(*)RT(+)	27	685.80	54	1371.60	39	990.60	72	1828.80
		18	457.2	MAUF(†)3018(*)RT(+)	27	685.80	48	1219.20	39	990.60	66	1676.40
		12	304.8	MAUF(†)3012(*)RT(+)	27	685.80	42	1066.80	39	990.60	60	1524.00
		9	228.6	MAUF(†)3009(*)RT(+)	27	685.80	39	990.60	39	990.60	57	1447.80
		6	152.4	MAUF(†)3006(*)RT(+)	27	685.80	36	914.40	39	990.60	54	1371.60
24	609.6	18	457.2	MAUF(†)2418(*)RT(+)	24	609.60	42	1066.80	36	914.40	66	1676.40
		12	304.8	MAUF(†)2412(*)RT(+)	24	609.60	36	914.40	36	914.40	60	1524.00
		9	228.6	MAUF(†)2409(*)RT(+)	24	609.60	33	838.20	36	914.40	57	1447.80
		6	152.4	MAUF(†)2406(*)RT(+)	24	609.60	30	762.00	36	914.40	54	1371.60
18	457.2	12	304.8	MAUF(†)1812(*)RT(+)	21	533.40	36	914.40	33	838.20	60	1524.00
		9	228.6	MAUF(†)1809(*)RT(+)	21	533.40	33	838.20	33	838.20	57	1447.80
		6	152.4	MAUF(†)1806(*)RT(+)	21	533.40	30	762.00	33	838.20	54	1371.60
12	304.8	9	228.6	MAUF(†)1209(*)RT(+)	18	457.20	33	838.20	30	762.00	57	1447.80
		6	152.4	MAUF(†)1206(*)RT(+)	18	457.20	30	762.00	30	762.00	54	1371.60
9	228.6	6	152.4	MAUF(†)0906(*)RT(+)	16½	419.10	30	762.00	28½	723.90	54	1371.60

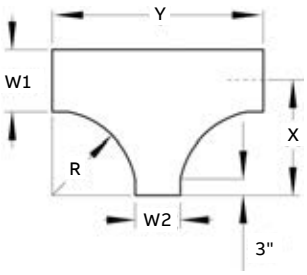
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

Horizontal reducing tee – U-style (continued)



Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
42	1,066.8	36	914.4	MAUF(†)4236(*)RT(+)	57	1447.80	108	2743.20	69	1752.60	132	3352.80
		30	762	MAUF(†)4230(*)RT(+)	57	1447.80	102	2590.80	69	1752.60	126	3200.40
		24	609.6	MAUF(†)4224(*)RT(+)	57	1447.80	96	2438.40	69	1752.60	120	3048.00
		18	457.2	MAUF(†)4218(*)RT(+)	57	1447.80	90	2286.00	69	1752.60	114	2895.60
		12	304.8	MAUF(†)4212(*)RT(+)	57	1447.80	84	2133.60	69	1752.60	108	2743.20
		9	228.6	MAUF(†)4209(*)RT(+)	57	1447.80	81	2057.40	69	1752.60	105	2667.00
		6	152.4	MAUF(†)4206(*)RT(+)	57	1447.80	78	1981.20	69	1752.60	102	2590.80
36	914.4	30	762	MAUF(†)3630(*)RT(+)	54	1371.60	102	2590.80	66	1676.40	126	3200.40
		24	609.6	MAUF(†)3624(*)RT(+)	54	1371.60	96	2438.40	66	1676.40	120	3048.00
		18	457.2	MAUF(†)3618(*)RT(+)	54	1371.60	90	2286.00	66	1676.40	114	2895.60
		12	304.8	MAUF(†)3612(*)RT(+)	54	1371.60	84	2133.60	66	1676.40	108	2743.20
		9	228.6	MAUF(†)3609(*)RT(+)	54	1371.60	81	2057.40	66	1676.40	105	2667.00
		6	152.4	MAUF(†)3606(*)RT(+)	54	1371.60	78	1981.20	66	1676.40	102	2590.80
30	762	24	609.6	MAUF(†)3024(*)RT(+)	51	1295.40	96	2438.40	63	1600.20	120	3048.00
		18	457.2	MAUF(†)3018(*)RT(+)	51	1295.40	90	2286.00	63	1600.20	114	2895.60
		12	304.8	MAUF(†)3012(*)RT(+)	51	1295.40	84	2133.60	63	1600.20	108	2743.20
		9	228.6	MAUF(†)3009(*)RT(+)	51	1295.40	81	2057.40	63	1600.20	105	2667.00
		6	152.4	MAUF(†)3006(*)RT(+)	51	1295.40	78	1981.20	63	1600.20	102	2590.80
24	609.6	18	457.2	MAUF(†)2418(*)RT(+)	48	1219.20	90	2286.00	60	1524.00	114	2895.60
		12	304.8	MAUF(†)2412(*)RT(+)	48	1219.20	84	2133.60	60	1524.00	108	2743.20
		9	228.6	MAUF(†)2409(*)RT(+)	48	1219.20	81	2057.40	60	1524.00	105	2667.00
		6	152.4	MAUF(†)2406(*)RT(+)	48	1219.20	78	1981.20	60	1524.00	102	2590.80
18	457.2	12	304.8	MAUF(†)1812(*)RT(+)	45	1143.00	84	2133.60	57	1447.80	108	2743.20
		9	228.6	MAUF(†)1809(*)RT(+)	45	1143.00	81	2057.40	57	1447.80	105	2667.00
		6	152.4	MAUF(†)1806(*)RT(+)	45	1143.00	78	1981.20	57	1447.80	102	2590.80
12	304.8	9	228.6	MAUF(†)1209(*)RT(+)	42	1066.80	81	2057.40	54	1371.60	105	2667.00
		6	152.4	MAUF(†)1206(*)RT(+)	42	1066.80	78	1981.20	54	1371.60	102	2590.80
9	228.6	6	152.4	MAUF(†)0906(*)RT(+)	40½	1028.70	78	1981.20	52½	1333.50	102	2590.80

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

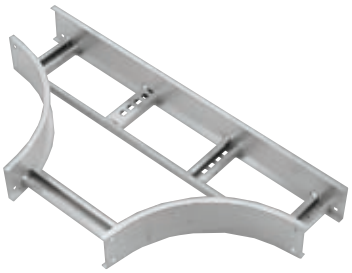
Selection guide

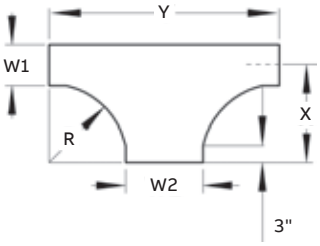
- Tray widths W1: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Tray widths W2: 6, 9, 12, 18, 24, 30, 36" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

U-style horizontal expanding tee

Horizontal expanding tee – U-style

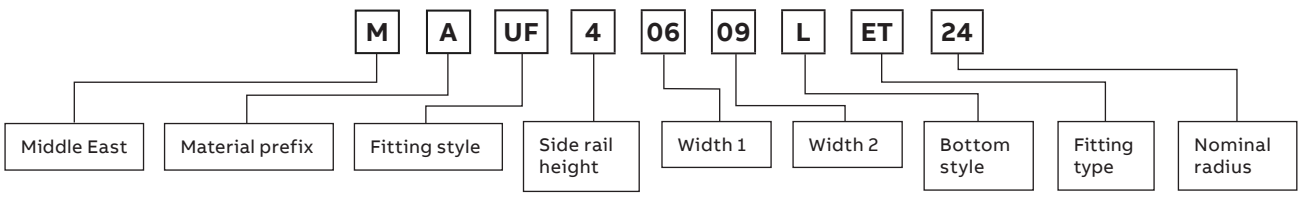




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	MAUF(†)3642(*)ET(+)	30	762.00	66	1676.40	42	1066.80	90	2286.00
30	762	36	914.4	MAUF(†)3036(*)ET(+)	27	685.80	60	1524.00	39	990.60	84	2133.60
		42	1,066.8	MAUF(†)3042(*)ET(+)	27	685.80	66	1676.40	39	990.60	90	2286.00
24	609.6	30	762	MAUF(†)2430(*)ET(+)	24	609.60	54	1371.60	36	914.40	78	1981.20
		36	914.4	MAUF(†)2436(*)ET(+)	24	609.60	60	1524.00	36	914.40	84	2133.60
		42	1,066.8	MAUF(†)2442(*)ET(+)	24	609.60	66	1676.40	36	914.40	90	2286.00
18	457.2	24	609.6	MAUF(†)1824(*)ET(+)	21	533.40	48	1219.20	33	838.20	72	1828.80
		30	762	MAUF(†)1830(*)ET(+)	21	533.40	54	1371.60	33	838.20	78	1981.20
		36	914.4	MAUF(†)1836(*)ET(+)	21	533.40	60	1524.00	33	838.20	84	2133.60
		42	1,066.8	MAUF(†)1842(*)ET(+)	21	533.40	66	1676.40	33	838.20	90	2286.00
12	304.8	18	457.2	MAUF(†)1218(*)ET(+)	18	457.20	42	1066.80	30	762.00	66	1676.40
		24	609.6	MAUF(†)1224(*)ET(+)	18	457.20	48	1219.20	30	762.00	72	1828.80
		30	762	MAUF(†)1230(*)ET(+)	18	457.20	54	1371.60	30	762.00	78	1981.20
		36	914.4	MAUF(†)1236(*)ET(+)	18	457.20	60	1524.00	30	762.00	84	2133.60
		42	1,066.8	MAUF(†)1242(*)ET(+)	18	457.20	66	1676.40	30	762.00	90	2286.00
9	228.6	12	304.8	MAUF(†)0912(*)ET(+)	16½	419.10	36	914.40	28½	723.90	60	1524.00
		18	457.2	MAUF(†)0918(*)ET(+)	16½	419.10	42	1066.80	28½	723.90	66	1676.40
		24	609.6	MAUF(†)0924(*)ET(+)	16½	419.10	48	1219.20	28½	723.90	72	1828.80
		30	762	MAUF(†)0930(*)ET(+)	16½	419.10	54	1371.60	28½	723.90	78	1981.20
		36	914.4	MAUF(†)0936(*)ET(+)	16½	419.10	60	1524.00	28½	723.90	84	2133.60
		42	1,066.8	MAUF(†)0942(*)ET(+)	16½	419.10	66	1676.40	28½	723.90	90	2286.00
6	152.4	9	228.6	MAUF(†)0609(*)ET(+)	15	381.00	33	838.20	27	685.80	57	1447.80
		12	304.8	MAUF(†)0612(*)ET(+)	15	381.00	36	914.40	27	685.80	60	1524.00
		18	457.2	MAUF(†)0618(*)ET(+)	15	381.00	42	1066.80	27	685.80	66	1676.40
		24	609.6	MAUF(†)0642(*)ET(+)	15	381.00	48	1219.20	27	685.80	72	1828.80
		30	762	MAUF(†)0630(*)ET(+)	15	381.00	54	1371.60	27	685.80	78	1981.20
		36	914.4	MAUF(†)0636(*)ET(+)	15	381.00	60	1524.00	27	685.80	84	2133.60
		42	1,066.8	MAUF(†)0642(*)ET(+)	15	381.00	66	1676.40	27	685.80	90	2286.00

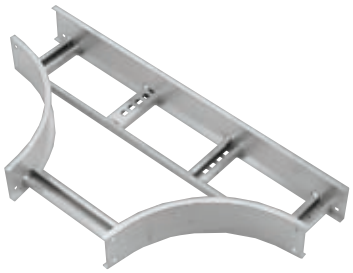
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

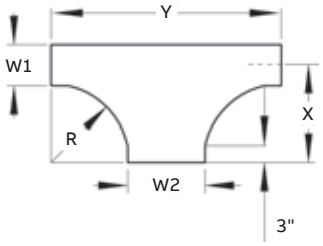
Fitting number selection



—

Horizontal expanding tee – U-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	MAUF(†)3642(*)ET(+)	54	1371.60	114	2895.60	66	1676.40	138	3505.20
30	762	36	914.4	MAUF(†)3036(*)ET(+)	51	1295.40	108	2743.20	63	1600.20	132	3352.80
		42	1,066.8	MAUF(†)3042(*)ET(+)	51	1295.40	114	2895.60	63	1600.20	138	3505.20
24	609.6	30	762	MAUF(†)2430(*)ET(+)	48	1219.20	102	2590.80	60	1524.00	126	3200.40
		36	914.4	MAUF(†)2436(*)ET(+)	48	1219.20	108	2743.20	60	1524.00	132	3352.80
		42	1,066.8	MAUF(†)2442(*)ET(+)	48	1219.20	114	2895.60	60	1524.00	138	3505.20
18	457.2	24	609.6	MAUF(†)1824(*)ET(+)	45	1143.00	96	2438.40	57	1447.80	120	3048.00
		30	762	MAUF(†)1830(*)ET(+)	45	1143.00	102	2590.80	57	1447.80	126	3200.40
		36	914.4	MAUF(†)1836(*)ET(+)	45	1143.00	108	2743.20	57	1447.80	132	3352.80
		42	1,066.8	MAUF(†)1842(*)ET(+)	45	1143.00	114	2895.60	57	1447.80	138	3505.20
12	304.8	18	457.2	MAUF(†)1218(*)ET(+)	42	1066.80	90	2286.00	54	1371.60	114	2895.60
		24	609.6	MAUF(†)1224(*)ET(+)	42	1066.80	96	2438.40	54	1371.60	120	3048.00
		30	762	MAUF(†)1230(*)ET(+)	42	1066.80	102	2590.80	54	1371.60	126	3200.40
		36	914.4	MAUF(†)1236(*)ET(+)	42	1066.80	108	2743.20	54	1371.60	132	3352.80
		42	1,066.8	MAUF(†)1242(*)ET(+)	42	1066.80	114	2895.60	54	1371.60	138	3505.20
9	228.6	12	304.8	MAUF(†)0912(*)ET(+)	40½	1028.70	84	2133.60	52½	1333.50	108	2743.20
		18	457.2	MAUF(†)0918(*)ET(+)	40½	1028.70	90	2286.00	52½	1333.50	114	2895.60
		24	609.6	MAUF(†)0924(*)ET(+)	40½	1028.70	96	2438.40	52½	1333.50	120	3048.00
		30	762	MAUF(†)0930(*)ET(+)	40½	1028.70	102	2590.80	52½	1333.50	126	3200.40
		36	914.4	MAUF(†)0936(*)ET(+)	40½	1028.70	108	2743.20	52½	1333.50	132	3352.80
		42	1,066.8	MAUF(†)0942(*)ET(+)	40½	1028.70	114	2895.60	52½	1333.50	138	3505.20
6	152.4	9	228.6	MAUF(†)0609(*)ET(+)	39	990.60	81	2057.40	51	1295.40	105	2667.00
		12	304.8	MAUF(†)0612(*)ET(+)	39	990.60	84	2133.60	51	1295.40	108	2743.20
		18	457.2	MAUF(†)0618(*)ET(+)	39	990.60	90	2286.00	51	1295.40	114	2895.60
		24	609.6	MAUF(†)0642(*)ET(+)	39	990.60	96	2438.40	51	1295.40	120	3048.00
		30	762	MAUF(†)0630(*)ET(+)	39	990.60	102	2590.80	51	1295.40	126	3200.40
		36	914.4	MAUF(†)0636(*)ET(+)	39	990.60	108	2743.20	51	1295.40	132	3352.80
		42	1,066.8	MAUF(†)0642(*)ET(+)	39	990.60	114	2895.60	51	1295.40	138	3505.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

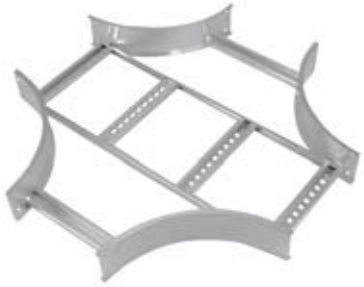
Selection guide

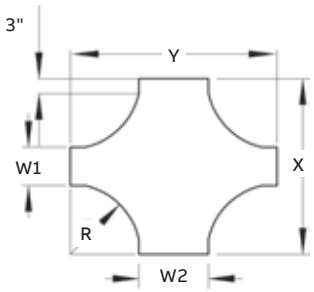
- Tray widths W1: 6, 9, 12, 18, 24, 30" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

U-style horizontal expanding cross

Horizontal expanding cross – U-style

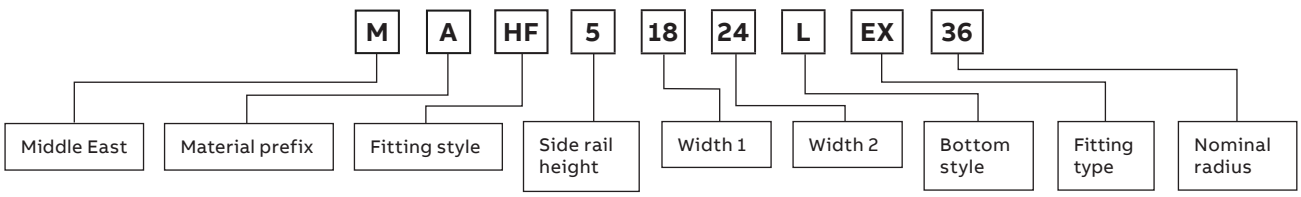




Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 12" (304.8mm) Nominal radius X (in)	(+) 12" (304.8mm) Nominal radius X (mm)	(+) 12" (304.8mm) Nominal radius Y (in)	(+) 12" (304.8mm) Nominal radius Y (mm)	(+) 24" (609.6mm) Nominal radius X (in)	(+) 24" (609.6mm) Nominal radius X (mm)	(+) 24" (609.6mm) Nominal radius Y (in)	(+) 24" (609.6mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	MAUF(†)3642(*)EX(+)	60	1524.00	66	1676.40	84	2133.60	90	2286.00
30	762	36	914.4	MAUF(†)3036(*)EX(+)	54	1371.60	60	1524.00	78	1981.20	84	2133.60
		42	1,066.8	MAUF(†)3042(*)EX(+)	54	1371.60	66	1676.40	78	1981.20	90	2286.00
24	609.6	30	762	MAUF(†)2430(*)EX(+)	48	1219.20	54	1371.60	72	1828.80	78	1981.20
		36	914.4	MAUF(†)2436(*)EX(+)	48	1219.20	60	1524.00	72	1828.80	84	2133.60
		42	1,066.8	MAUF(†)2442(*)EX(+)	48	1219.20	66	1676.40	72	1828.80	90	2286.00
18	457.2	24	609.6	MAUF(†)1824(*)EX(+)	42	1066.80	48	1219.20	66	1676.40	72	1828.80
		30	762	MAUF(†)1830(*)EX(+)	42	1066.80	54	1371.60	66	1676.40	78	1981.20
		36	914.4	MAUF(†)1836(*)EX(+)	42	1066.80	60	1524.00	66	1676.40	84	2133.60
		42	1,066.8	MAUF(†)1842(*)EX(+)	42	1066.80	66	1676.40	66	1676.40	90	2286.00
12	304.8	18	457.2	MAUF(†)1218(*)EX(+)	36	914.40	42	1066.80	60	1524.00	66	1676.40
		24	609.6	MAUF(†)1224(*)EX(+)	36	914.40	48	1219.20	60	1524.00	72	1828.80
		30	762	MAUF(†)1230(*)EX(+)	36	914.40	54	1371.60	60	1524.00	78	1981.20
		36	914.4	MAUF(†)1236(*)EX(+)	36	914.40	60	1524.00	60	1524.00	84	2133.60
		42	1,066.8	MAUF(†)1242(*)EX(+)	36	914.40	66	1676.40	60	1524.00	90	2286.00
9	228.6	12	304.8	MAUF(†)0912(*)EX(+)	33	838.20	42	1066.80	57	1447.80	60	1524.00
		18	457.2	MAUF(†)0918(*)EX(+)	33	838.20	48	1219.20	57	1447.80	66	1676.40
		24	609.6	MAUF(†)0924(*)EX(+)	33	838.20	54	1371.60	57	1447.80	72	1828.80
		30	762	MAUF(†)0930(*)EX(+)	33	838.20	60	1524.00	57	1447.80	78	1981.20
		36	914.4	MAUF(†)0936(*)EX(+)	33	838.20	66	1676.40	57	1447.80	84	2133.60
		42	1,066.8	MAUF(†)0942(*)EX(+)	33	838.20	33	838.20	57	1447.80	90	2286.00
6	152.4	9	228.6	MAUF(†)0609(*)EX(+)	30	762.00	33	838.20	54	1371.60	57	1447.80
		12	304.8	MAUF(†)0612(*)EX(+)	30	762.00	36	914.40	54	1371.60	60	1524.00
		18	457.2	MAUF(†)0618(*)EX(+)	30	762.00	42	1066.80	54	1371.60	66	1676.40
		24	609.6	MAUF(†)0642(*)EX(+)	30	762.00	48	1219.20	54	1371.60	72	1828.80
		30	762	MAUF(†)0630(*)EX(+)	30	762.00	54	1371.60	54	1371.60	78	1981.20
		36	914.4	MAUF(†)0636(*)EX(+)	30	762.00	60	1524.00	54	1371.60	84	2133.60
		42	1,066.8	MAUF(†)0642(*)EX(+)	30	762.00	66	1676.40	54	1371.60	90	2286.00

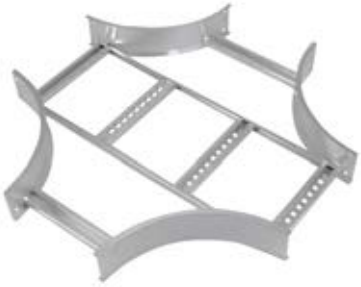
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

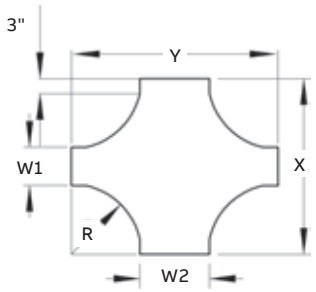
Fitting number selection



—

Horizontal expanding cross – U-style (continued)





Widths W1 (in)	Widths W1 (mm)	Widths W2 (in)	Widths W2 (mm)	Cat. No.	(+) 36" (914.4mm) Nominal radius X (in)	(+) 36" (914.4mm) Nominal radius X (mm)	(+) 36" (914.4mm) Nominal radius Y (in)	(+) 36" (914.4mm) Nominal radius Y (mm)	(+) 48" (1,219.2mm) Nominal radius X (in)	(+) 48" (1,219.2mm) Nominal radius X (mm)	(+) 48" (1,219.2mm) Nominal radius Y (in)	(+) 48" (1,219.2mm) Nominal radius Y (mm)
36	914.4	42	1,066.8	MAUF(†)3642(*)EX(+)	108	2743.20	114	2895.60	132	3352.80	138	3505.20
30	762	36	914.4	MAUF(†)3036(*)EX(+)	102	2590.80	108	2743.20	126	3200.40	132	3352.80
		42	1,066.8	MAUF(†)3042(*)EX(+)	102	2590.80	114	2895.60	126	3200.40	138	3505.20
24	609.6	30	762	MAUF(†)2430(*)EX(+)	96	2438.40	102	2590.80	120	3048.00	126	3200.40
		36	914.4	MAUF(†)2436(*)EX(+)	96	2438.40	108	2743.20	120	3048.00	132	3352.80
		42	1,066.8	MAUF(†)2442(*)EX(+)	96	2438.40	114	2895.60	120	3048.00	138	3505.20
18	457.2	24	609.6	MAUF(†)1824(*)EX(+)	90	2286.00	96	2438.40	114	2895.60	120	3048.00
		30	762	MAUF(†)1830(*)EX(+)	90	2286.00	102	2590.80	114	2895.60	126	3200.40
		36	914.4	MAUF(†)1836(*)EX(+)	90	2286.00	108	2743.20	114	2895.60	132	3352.80
		42	1,066.8	MAUF(†)1842(*)EX(+)	90	2286.00	114	2895.60	114	2895.60	138	3505.20
12	304.8	18	457.2	MAUF(†)1218(*)EX(+)	84	2133.60	90	2286.00	108	2743.20	114	2895.60
		24	609.6	MAUF(†)1224(*)EX(+)	84	2133.60	96	2438.40	108	2743.20	120	3048.00
		30	762	MAUF(†)1230(*)EX(+)	84	2133.60	102	2590.80	108	2743.20	126	3200.40
		36	914.4	MAUF(†)1236(*)EX(+)	84	2133.60	108	2743.20	108	2743.20	132	3352.80
		42	1,066.8	MAUF(†)1242(*)EX(+)	84	2133.60	1114	2895.60	108	2743.20	138	3505.20
9	228.6	12	304.8	MAUF(†)0912(*)EX(+)	81	2057.40	84	2133.60	105	2667.00	108	2743.20
		18	457.2	MAUF(†)0918(*)EX(+)	81	2057.40	90	2286.00	105	2667.00	114	2895.60
		24	609.6	MAUF(†)0924(*)EX(+)	81	2057.40	96	2438.40	105	2667.00	120	3048.00
		30	762	MAUF(†)0930(*)EX(+)	81	2057.40	102	2590.80	105	2667.00	126	3200.40
		36	914.4	MAUF(†)0936(*)EX(+)	81	2057.40	108	2743.20	105	2667.00	132	3352.80
		42	1,066.8	MAUF(†)0942(*)EX(+)	81	2057.40	114	2895.60	105	2667.00	138	3505.20
6	152.4	9	228.6	MAUF(†)0609(*)EX(+)	78	1981.20	81	2057.40	102	2590.80	105	2667.00
		12	304.8	MAUF(†)0612(*)EX(+)	78	1981.20	84	2133.60	102	2590.80	108	2743.20
		18	457.2	MAUF(†)0618(*)EX(+)	78	1981.20	90	2286.00	102	2590.80	114	2895.60
		24	609.6	MAUF(†)0642(*)EX(+)	78	1981.20	96	2438.40	102	2590.80	120	3048.00
		30	762	MAUF(†)0630(*)EX(+)	78	1981.20	102	2590.80	102	2590.80	126	3200.40
		36	914.4	MAUF(†)0636(*)EX(+)	78	1981.20	108	2743.20	102	2590.80	132	3352.80
		42	1,066.8	MAUF(†)0642(*)EX(+)	78	1981.20	114	2895.60	102	2590.80	138	3505.20

(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. (+) Insert radius (12" – 48" (304.8mm – 1,219.2mm)). Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Tray widths W1: 6, 9, 12, 18, 24, 30" (*mm)
- Tray widths W2: 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

U-style reducer fittings

Offset reducer – left

Reducer – left

Offset reducer – left

Selection guide

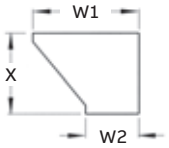
- Tray widths W1: 6, 9, 12, 18, 24, 30, 42"
- Tray widths W2: 6, 9, 12, 18, 24, 30, 36"
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4" - 7"

NOTE: For fitting number selection see page 85

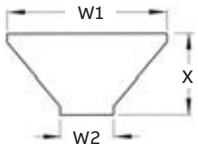
Horizontal reducer – U-style

Widths W1 (in)	Widths W1 (mm)	W1 (in)	W1 (mm)	Left reducer Cat. No.	Dim. X (in)	Dim. X (mm)	Straight reducer (concentric) Cat. No.	Dim. X (in)	Dim. X (mm)	Right reducer Cat. No.	Dim. X (in)	Dim. X (mm)
42	1,066.8	36	914.4	MAUF(†)4236(*)HLR	15 7/16	392.11	MAUF(†)4236(*)HSR	13 3/4	349.25	MAUF(†)4236(*)HRR	15 7/16	392.11
		30	762	MAUF(†)4230(*)HLR	18 5/16	465.14	MAUF(†)4230(*)HSR	15 7/16	392.11	MAUF(†)4230(*)HRR	18 5/16	465.14
		24	609.6	MAUF(†)4224(*)HLR	22 3/8	568.33	MAUF(†)4224(*)HSR	17 3/16	436.56	MAUF(†)4224(*)HRR	22 3/8	568.33
		18	457.2	MAUF(†)4218(*)HLR	25 7/8	657.23	MAUF(†)4218(*)HSR	18 5/16	465.14	MAUF(†)4218(*)HRR	25 7/8	657.23
		12	304.8	MAUF(†)4212(*)HLR	29 5/16	744.54	MAUF(†)4212(*)HSR	20 5/8	523.88	MAUF(†)4212(*)HRR	29 5/16	744.54
		9	228.6	MAUF(†)4209(*)HLR	31 1/16	788.99	MAUF(†)4209(*)HSR	21 1/2	546.10	MAUF(†)4209(*)HRR	31 1/16	788.99
		6	152.4	MAUF(†)4206(*)HLR	32 3/4	831.85	MAUF(†)4206(*)HSR	22 3/8	568.33	MAUF(†)4206(*)HRR	32 3/4	831.85
36	914.4	30	762	MAUF(†)3630(*)HLR	15 7/16	392.11	MAUF(†)3630(*)HSR	13 3/4	349.25	MAUF(†)3630(*)HRR	15 7/16	392.11
		24	609.6	MAUF(†)3624(*)HLR	18 15/16	481.01	MAUF(†)3624(*)HSR	15 7/16	392.11	MAUF(†)3624(*)HRR	18 15/16	481.01
		18	457.2	MAUF(†)3618(*)HLR	22 3/8	568.33	MAUF(†)3618(*)HSR	17 3/8	441.33	MAUF(†)3618(*)HRR	22 3/8	568.33
		12	304.8	MAUF(†)3612(*)HLR	25 7/8	657.23	MAUF(†)3612(*)HSR	18 5/16	465.14	MAUF(†)3612(*)HRR	25 7/8	657.23
		9	228.6	MAUF(†)3609(*)HLR	27 9/16	700.09	MAUF(†)3609(*)HSR	19 13/16	503.24	MAUF(†)3609(*)HRR	27 9/16	700.09
		6	152.4	MAUF(†)3606(*)HLR	29 5/16	744.54	MAUF(†)3606(*)HSR	20 11/16	525.46	MAUF(†)3606(*)HRR	29 5/16	744.54
30	762	24	609.6	MAUF(†)3024(*)HLR	15 7/16	392.11	MAUF(†)3024(*)HSR	13 3/4	349.25	MAUF(†)3024(*)HRR	15 7/16	392.11
		18	457.2	MAUF(†)3018(*)HLR	18 15/16	481.01	MAUF(†)3018(*)HSR	15 7/16	392.11	MAUF(†)3018(*)HRR	18 15/16	481.01
		12	304.8	MAUF(†)3012(*)HLR	22 3/8	568.33	MAUF(†)3012(*)HSR	17 3/16	436.56	MAUF(†)3012(*)HRR	22 3/8	568.33
		9	228.6	MAUF(†)3009(*)HLR	24 1/8	612.78	MAUF(†)3009(*)HSR	18 1/16	458.79	MAUF(†)3009(*)HRR	24 1/8	612.78
		6	152.4	MAUF(†)3006(*)HLR	25 7/8	657.23	MAUF(†)3006(*)HSR	18 15/16	481.01	MAUF(†)3006(*)HRR	25 7/8	657.23
24	609.6	18	457.2	MAUF(†)2418(*)HLR	15 7/16	392.11	MAUF(†)2418(*)HSR	13 3/4	349.25	MAUF(†)2418(*)HRR	15 7/16	392.11
		12	304.8	MAUF(†)2412(*)HLR	18 15/16	481.01	MAUF(†)2412(*)HSR	15 7/16	392.11	MAUF(†)2412(*)HRR	18 15/16	481.01
		9	228.6	MAUF(†)2409(*)HLR	20 11/16	525.46	MAUF(†)2409(*)HSR	16 5/16	414.34	MAUF(†)2409(*)HRR	20 11/16	525.46
		6	152.4	MAUF(†)2406(*)HLR	22 3/8	568.33	MAUF(†)2406(*)HSR	17 3/16	436.56	MAUF(†)2406(*)HRR	22 3/8	568.33
18	457.2	12	304.8	MAUF(†)1812(*)HLR	15 7/16	392.11	MAUF(†)1812(*)HSR	13 3/4	349.25	MAUF(†)1812(*)HRR	15 7/16	392.11
		9	228.6	MAUF(†)1809(*)HLR	17 3/16	436.56	MAUF(†)1809(*)HSR	14 5/8	371.48	MAUF(†)1809(*)HRR	17 3/16	436.56
		6	152.4	MAUF(†)1806(*)HLR	18 15/16	481.01	MAUF(†)1806(*)HSR	15 7/16	392.11	MAUF(†)1806(*)HRR	18 15/16	481.01
12	304.8	9	228.6	MAUF(†)1209(*)HLR	13 3/4	349.25	MAUF(†)1209(*)HSR	12 7/8	327.03	MAUF(†)1209(*)HRR	13 3/4	349.25
		6	152.4	MAUF(†)1206(*)HLR	15 7/16	392.11	MAUF(†)1206(*)HSR	13 3/4	349.25	MAUF(†)1206(*)HRR	15 7/16	392.11
9	1,066.8	6	152.4	MAUF(†)0906(*)HLR	13 3/4	349.25	MAUF(†)0906(*)HSR	12 7/8	327.03	MAUF(†)0906(*)HRR	13 3/4	349.25

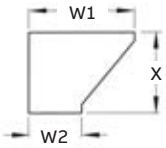
Offset reducer – right



Reducer – left



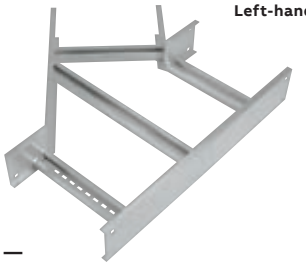
Offset reducer – left

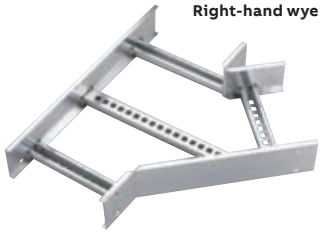


(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Aluminum fittings

45° U-style horizontal wye fittings





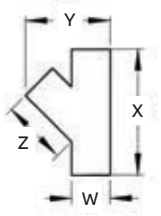
45° Horizontal wye – U-style

Selection guide

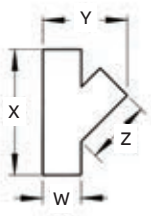
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Width (in)	(mm)	Left-hand wye Cat. No.	Right-hand wye Cat. No.	Dimensions X (in)	X(mm)	Y (in)	Y(mm)	Z (in)	Z (mm)
6	152.4	MAUF(†)06(*)HYL	MAUF(†)06(*)HYR	18 5/16	465.14	14 13/16	376.24	12 7/16	315.91
9	228.6	MAUF(†)09(*)HYL	MAUF(†)09(*)HYR	22 1/2	571.50	19 15/16	506.41	15 7/16	392.11
12	304.8	MAUF(†)12(*)HYL	MAUF(†)12(*)HYR	26 3/4	679.45	25	635.00	18 7/16	468.31
18	457.2	MAUF(†)18(*)HYL	MAUF(†)18(*)HYR	35 1/4	895.35	35 1/4	895.35	24 7/16	620.71
24	609.6	MAUF(†)24(*)HYL	MAUF(†)24(*)HYR	43 1/2	1098.55	45 1/2	1149.35	30 7/16	773.11
30	762	MAUF(†)30(*)HYL	MAUF(†)30(*)HYR	52 1/4	1327.15	55 3/4	1416.05	36 7/16	925.51
36	914.4	MAUF(†)36(*)HYL	MAUF(†)36(*)HYR	60 11/16	1541.46	66	1676.40	42 7/16	1077.91
42	1,066.8	MAUF(†)42(*)HYL	MAUF(†)42(*)HYR	69 3/16	1757.36	76 1/4	2012.95	45 7/16	1154.11

Left-hand wye

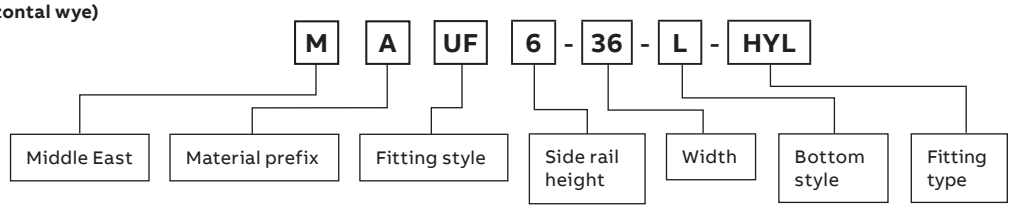


Right-hand wye



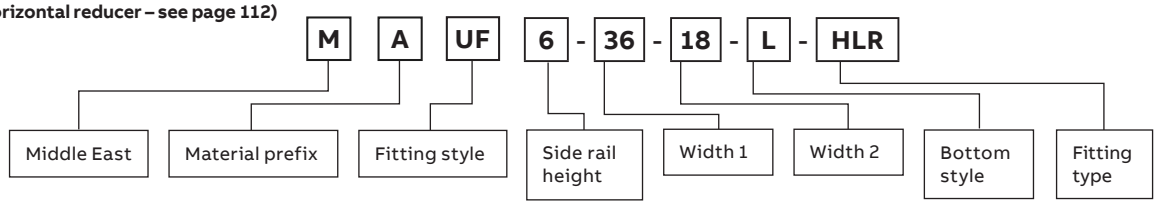
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection (45° Horizontal wye)



*Dimension Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Fitting number selection (Horizontal reducer – see page 112)

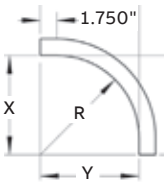


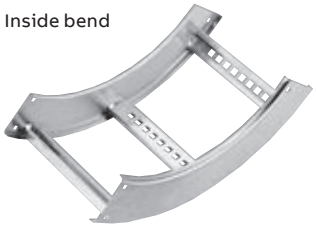
Aluminum fittings

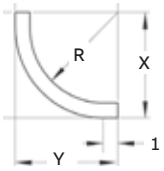
90° U-style vertical bend fittings

90° Vertical bend – U-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)		(+) VI side rail 4" (101.6mm)		(+) VI side rail 5" (127mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	MAUF(†)06(*)(+)9012	12 304.8	12 304.8	17 15/16 455.61	17 15/16 455.61	18 13/16 477.84	18 13/16 477.84
			9	228.6	MAUF(†)09(*)(+)9012						
			12	304.8	MAUF(†)12(*)(+)9012						
			18	457.2	MAUF(†)18(*)(+)9012						
			24	609.6	MAUF(†)24(*)(+)9012						
			30	762	MAUF(†)30(*)(+)9012						
			36	914.4	MAUF(†)36(*)(+)9012						
			42	1,066.8	MAUF(†)42(*)(+)9012						
	24	609.6	6	152.4	MAUF(†)06(*)(+)9024	24 609.6	24 609.6	29 15/16 760.41	29 15/16 760.41	30 13/16 782.64	30 13/16 782.64
			9	228.6	MAUF(†)09(*)(+)9024						
			12	304.8	MAUF(†)12(*)(+)9024						
			18	457.2	MAUF(†)18(*)(+)9024						
			24	609.6	MAUF(†)24(*)(+)9024						
			30	762	MAUF(†)30(*)(+)9024						
			36	914.4	MAUF(†)36(*)(+)9024						
			42	1,066.8	MAUF(†)42(*)(+)9024						
Inside bend	36	914.4	6	152.4	MAUF(†)06(*)(+)9036	36 914.4	36 914.4	41 15/16 1065.21	41 15/16 1065.21	42 13/16 1087.44	42 13/16 1087.44
			9	228.6	MAUF(†)09(*)(+)9036						
			12	304.8	MAUF(†)12(*)(+)9036						
			18	457.2	MAUF(†)18(*)(+)9036						
			24	609.6	MAUF(†)24(*)(+)9036						
			30	762	MAUF(†)30(*)(+)9036						
			36	914.4	MAUF(†)36(*)(+)9036						
			42	1,066.8	MAUF(†)42(*)(+)9036						
	48	1,219.2	6	152.4	MAUF(†)06(*)(+)9048	48 1,219.2	48 1,219.2	53 15/16 1370.01	53 15/16 1370.01	54 13/16 1392.24	54 13/16 1392.24
			9	228.6	MAUF(†)09(*)(+)9048						
			12	304.8	MAUF(†)12(*)(+)9048						
			18	457.2	MAUF(†)18(*)(+)9048						
			24	609.6	MAUF(†)24(*)(+)9048						
			30	762	MAUF(†)30(*)(+)9048						
			36	914.4	MAUF(†)36(*)(+)9048						
			42	1,066.8	MAUF(†)42(*)(+)9048						

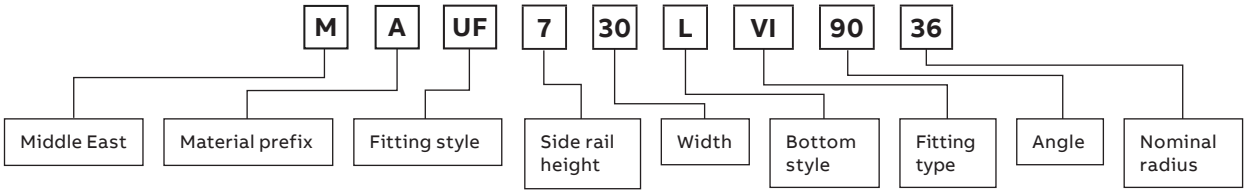






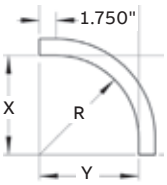
(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

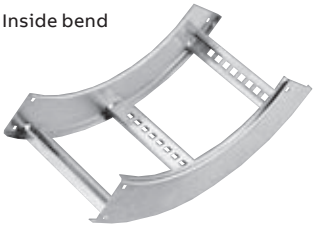
Fitting number selection

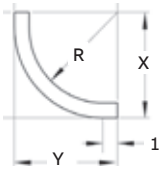


90° Vertical bend – U-style (continued)

	Nominal Radius		Nominal Width			(+) VI side rail			
						6" (152.4mm)		7" (177.8mm)	
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Outside bend	12	304.8	6	152.4	MAUF(†)06(*)(+)9012	20 508.00	20 508.00	21 533.40	21 533.40
			9	228.6	MAUF(†)09(*)(+)9012				
			12	304.8	MAUF(†)12(*)(+)9012				
			18	457.2	MAUF(†)18(*)(+)9012				
			24	609.6	MAUF(†)24(*)(+)9012				
			30	762	MAUF(†)30(*)(+)9012				
			36	914.4	MAUF(†)36(*)(+)9012				
			42	1,066.8	MAUF(†)42(*)(+)9012				
	24	609.6	6	152.4	MAUF(†)06(*)(+)9024	32 812.80	32 812.80	33 838.20	33 838.20
			9	228.6	MAUF(†)09(*)(+)9024				
			12	304.8	MAUF(†)12(*)(+)9024				
			18	457.2	MAUF(†)18(*)(+)9024				
			24	609.6	MAUF(†)24(*)(+)9024				
			30	762	MAUF(†)30(*)(+)9024				
			36	914.4	MAUF(†)36(*)(+)9024				
			42	1,066.8	MAUF(†)42(*)(+)9024				
Inside bend	36	914.4	6	152.4	MAUF(†)06(*)(+)9036	44 1117.60	44 1117.60	33 838.20	33 838.20
			9	228.6	MAUF(†)09(*)(+)9036				
			12	304.8	MAUF(†)12(*)(+)9036				
			18	457.2	MAUF(†)18(*)(+)9036				
			24	609.6	MAUF(†)24(*)(+)9036				
			30	762	MAUF(†)30(*)(+)9036				
			36	914.4	MAUF(†)36(*)(+)9036				
			42	1,066.8	MAUF(†)42(*)(+)9036				
	48	1,219.2	6	152.4	MAUF(†)06(*)(+)9048	56 1422.40	56 1422.40	57 1447.80	57 1447.80
			9	228.6	MAUF(†)09(*)(+)9048				
			12	304.8	MAUF(†)12(*)(+)9048				
			18	457.2	MAUF(†)18(*)(+)9048				
			24	609.6	MAUF(†)24(*)(+)9048				
			30	762	MAUF(†)30(*)(+)9048				
			36	914.4	MAUF(†)36(*)(+)9048				
			42	1,066.8	MAUF(†)42(*)(+)9048				







(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

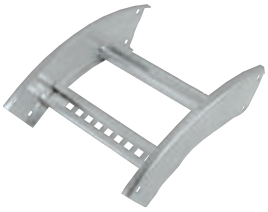
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 90°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

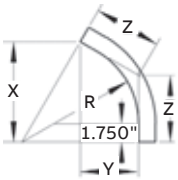
Aluminum fittings

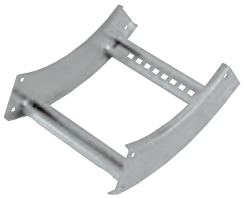
60° U-style vertical bend fittings

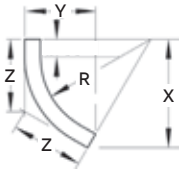
60° Vertical bend – U-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	MAUF(†)06(*)(+)6012	13 330.20	7½ 190.50	8¹¹⁄₁₆ 220.66	16⅝ 422.28	11¹¹⁄₁₆ 296.86	11¹⁄₁₆ 280.99
			9	228.6	MAUF(†)09(*)(+)6012						
			12	304.8	MAUF(†)12(*)(+)6012						
			18	457.2	MAUF(†)18(*)(+)6012						
			24	609.6	MAUF(†)24(*)(+)6012						
			30	762	MAUF(†)30(*)(+)6012						
			36	914.4	MAUF(†)36(*)(+)6012						
			42	1,066.8	MAUF(†)42(*)(+)6012						
	24	609.6	6	152.4	MAUF(†)06(*)(+)6024	23⁷⁄₁₆ 595.31	13½ 342.90	15⅝ 685.80	27 685.80	17¹¹⁄₁₆ 449.26	18 457.20
			9	228.6	MAUF(†)09(*)(+)6024						
			12	304.8	MAUF(†)12(*)(+)6024						
			18	457.2	MAUF(†)18(*)(+)6024						
			24	609.6	MAUF(†)24(*)(+)6024						
			30	762	MAUF(†)30(*)(+)6024						
			36	914.4	MAUF(†)36(*)(+)6024						
			42	1,066.8	MAUF(†)42(*)(+)6024						
Inside bend	36	914.4	6	152.4	MAUF(†)06(*)(+)6036	33¹³⁄₁₆ 858.84	19½ 495.30	22⁹⁄₁₆ 573.09	37⁷⁄₁₆ 950.91	23¹¹⁄₁₆ 601.66	24¹⁵⁄₁₆ 633.41
			9	228.6	MAUF(†)09(*)(+)6036						
			12	304.8	MAUF(†)12(*)(+)6036						
			18	457.2	MAUF(†)18(*)(+)6036						
			24	609.6	MAUF(†)24(*)(+)6036						
			30	762	MAUF(†)30(*)(+)6036						
			36	914.4	MAUF(†)36(*)(+)6036						
			42	1,066.8	MAUF(†)42(*)(+)6036						
	48	1,219.2	6	152.4	MAUF(†)06(*)(+)6048	44³⁄₁₆ 1122.36	25½ 647.70	29⁷⁄₁₆ 747.71	47¹³⁄₁₆ 1214.44	29¹¹⁄₁₆ 754.06	31⅞ 809.63
			9	228.6	MAUF(†)09(*)(+)6048						
			12	304.8	MAUF(†)12(*)(+)6048						
			18	457.2	MAUF(†)18(*)(+)6048						
			24	609.6	MAUF(†)24(*)(+)6048						
			30	762	MAUF(†)30(*)(+)6048						
			36	914.4	MAUF(†)36(*)(+)6048						
			42	1,066.8	MAUF(†)42(*)(+)6048						



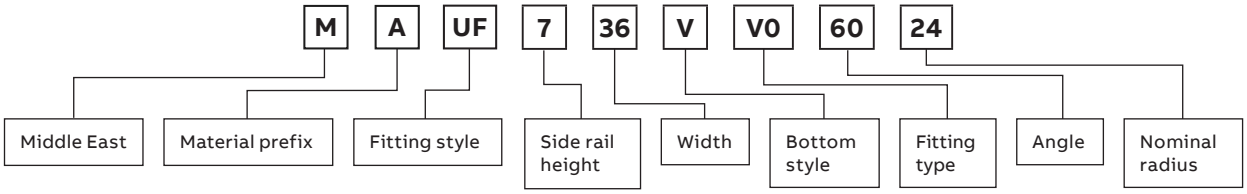






(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware. T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



60° Vertical bend – U-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	MAUF(†)06(*)(+)6012	17 7/16 442.91	12 5/8 320.68	11 5/8 295.28	18 3/8 466.73	13 11/16 311.15	12 1/4 490.54	19 5/16 490.54	14 3/4 374.65	12 7/8 327.03
		9	228.6	MAUF(†)09(*)(+)6012									
		12	304.8	MAUF(†)12(*)(+)6012									
		18	457.2	MAUF(†)18(*)(+)6012									
		24	609.6	MAUF(†)24(*)(+)6012									
		30	762	MAUF(†)30(*)(+)6012									
		36	914.4	MAUF(†)36(*)(+)6012									
		42	1,066.8	MAUF(†)42(*)(+)6012									
24	609.6	6	152.4	MAUF(†)06(*)(+)6024	28 3/4 730.25	18 5/8 473.08	16 9/16 420.69	28 3/4 730.25	19 11/16 500.06	19 3/16 487.36	29 11/16 754.06	20 3/4 527.05	19 13/16 503.24
		9	228.6	MAUF(†)09(*)(+)6024									
		12	304.8	MAUF(†)12(*)(+)6024									
		18	457.2	MAUF(†)18(*)(+)6024									
		24	609.6	MAUF(†)24(*)(+)6024									
		30	762	MAUF(†)30(*)(+)6024									
		36	914.4	MAUF(†)36(*)(+)6024									
		42	1,066.8	MAUF(†)42(*)(+)6024									
36	914.4	6	152.4	MAUF(†)06(*)(+)6036	38 3/16 969.96	24 5/8 625.48	25 7/16 646.11	39 3/16 995.36	25 11/16 652.46	26 1/8 663.58	40 1/16 1017.59	26 3/4 679.45	26 11/16 677.86
		9	228.6	MAUF(†)09(*)(+)6036									
		12	304.8	MAUF(†)12(*)(+)6036									
		18	457.2	MAUF(†)18(*)(+)6036									
		24	609.6	MAUF(†)24(*)(+)6036									
		30	762	MAUF(†)30(*)(+)6036									
		36	914.4	MAUF(†)36(*)(+)6036									
		42	1,066.8	MAUF(†)42(*)(+)6036									
48	1,219.2	6	152.4	MAUF(†)06(*)(+)6048	48 9/16 1233.49	30 5/8 777.88	32 3/8 822.33	49 9/16 1258.89	31 11/16 804.86	33 1/16 839.79	50 7/16 1281.11	32 3/4 831.85	33 5/8 854.08
		9	228.6	MAUF(†)09(*)(+)6048									
		12	304.8	MAUF(†)12(*)(+)6048									
		18	457.2	MAUF(†)18(*)(+)6048									
		24	609.6	MAUF(†)24(*)(+)6048									
		30	762	MAUF(†)30(*)(+)6048									
		36	914.4	MAUF(†)36(*)(+)6048									
		42	1,066.8	MAUF(†)42(*)(+)6048									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 60°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

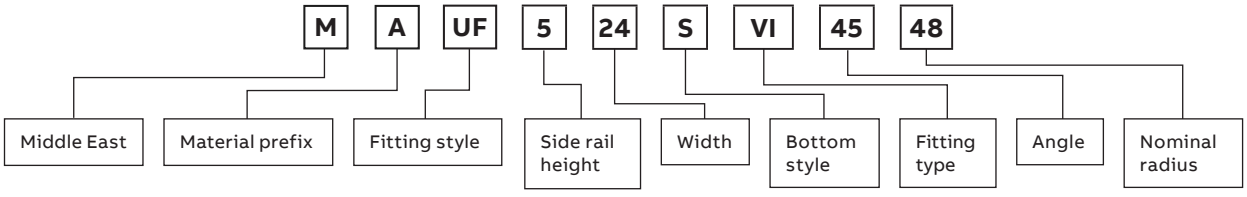
45° U-style vertical bends fittings

45° Vertical bend – U-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	MAUF(†)06(*)(+)4512	11½ 292.10	4¾ 120.65	6¾ 171.45	14⁷⁄₁₆ 295.28	8¹⁵⁄₁₆ 366.71	8⁷⁄₁₆ 227.01
			9	228.6	MAUF(†)09(*)(+)4512						
			12	304.8	MAUF(†)12(*)(+)4512						
			18	457.2	MAUF(†)18(*)(+)4512						
			24	609.6	MAUF(†)24(*)(+)4512						
			30	762	MAUF(†)30(*)(+)4512						
			36	914.4	MAUF(†)36(*)(+)4512						
			42	1,066.8	MAUF(†)42(*)(+)4512						
	24	609.6	6	152.4	MAUF(†)06(*)(+)4524	19¹⁵⁄₁₆ 506.41	8¼ 209.55	11¹¹⁄₁₆ 296.86	22¹⁵⁄₁₆ 582.61	12⁷⁄₁₆ 315.91	13⁷⁄₁₆ 341.31
			9	228.6	MAUF(†)09(*)(+)4524						
			12	304.8	MAUF(†)12(*)(+)4524						
			18	457.2	MAUF(†)18(*)(+)4524						
			24	609.6	MAUF(†)24(*)(+)4524						
			30	762	MAUF(†)30(*)(+)4524						
			36	914.4	MAUF(†)36(*)(+)4524						
			42	1,066.8	MAUF(†)42(*)(+)4524						
Inside bend	36	914.4	6	152.4	MAUF(†)06(*)(+)4536	28⁷⁄₁₆ 722.31	11¹³⁄₁₆ 300.04	16¹¹⁄₁₆ 423.86	31⅜ 796.93	15¹⁵⁄₁₆ 404.81	18⅜ 466.73
			9	228.6	MAUF(†)09(*)(+)4536						
			12	304.8	MAUF(†)12(*)(+)4536						
			18	457.2	MAUF(†)18(*)(+)4536						
			24	609.6	MAUF(†)24(*)(+)4536						
			30	762	MAUF(†)30(*)(+)4536						
			36	914.4	MAUF(†)36(*)(+)4536						
			42	1,066.8	MAUF(†)42(*)(+)4536						
	48	1,219.2	6	152.4	MAUF(†)06(*)(+)4548	36¹⁵⁄₁₆ 938.21	15⁵⁄₁₆ 388.94	21⅝ 549.28	39⅞ 1012.83	19½ 495.30	23⅜ 593.73
			9	228.6	MAUF(†)09(*)(+)4548						
			12	304.8	MAUF(†)12(*)(+)4548						
			18	457.2	MAUF(†)18(*)(+)4548						
			24	609.6	MAUF(†)24(*)(+)4548						
			30	762	MAUF(†)30(*)(+)4548						
			36	914.4	MAUF(†)36(*)(+)4548						
			42	1,066.8	MAUF(†)42(*)(+)4548						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



45° Vertical bend – U-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	MAUF(†)06(*)(+)4512	15 1/16 382.59	9 13/16 249.24	8 13/16 223.84	15 7/8 403.23	10 15/16 277.81	9 5/16 236.54	16 9/16 420.69	12 304.80	9 3/4 247.65
		9	228.6	MAUF(†)09(*)(+)4512									
		12	304.8	MAUF(†)12(*)(+)4512									
		18	457.2	MAUF(†)18(*)(+)4512									
		24	609.6	MAUF(†)24(*)(+)4512									
		30	762	MAUF(†)30(*)(+)4512									
		36	914.4	MAUF(†)36(*)(+)4512									
		42	1,066.8	MAUF(†)42(*)(+)4512									
24	609.6	6	152.4	MAUF(†)06(*)(+)4524	23 9/16 598.49	13 3/8 339.73	13 13/16 350.84	24 5/16 617.54	14 7/16 366.71	14 1/4 361.95	25 1/16 636.59	15 1/2 393.70	14 11/16 373.06
		9	228.6	MAUF(†)09(*)(+)4524									
		12	304.8	MAUF(†)12(*)(+)4524									
		18	457.2	MAUF(†)18(*)(+)4524									
		24	609.6	MAUF(†)24(*)(+)4524									
		30	762	MAUF(†)30(*)(+)4524									
		36	914.4	MAUF(†)36(*)(+)4524									
		42	1,066.8	MAUF(†)42(*)(+)4524									
36	914.4	6	152.4	MAUF(†)06(*)(+)4536	32 1/16 814.39	16 7/8 428.63	18 3/4 476.25	32 13/16 833.44	18 457.20	19 1/4 488.95	33 9/16 852.49	19 482.60	19 11/16 500.06
		9	228.6	MAUF(†)09(*)(+)4536									
		12	304.8	MAUF(†)12(*)(+)4536									
		18	457.2	MAUF(†)18(*)(+)4536									
		24	609.6	MAUF(†)24(*)(+)4536									
		30	762	MAUF(†)30(*)(+)4536									
		36	914.4	MAUF(†)36(*)(+)4536									
		42	1,066.8	MAUF(†)42(*)(+)4536									
48	1,219.2	6	152.4	MAUF(†)06(*)(+)4548	40 1/2 1028.70	20 3/8 517.53	23 3/4 603.25	41 5/16 1049.34	21 1/2 546.10	24 3/16 614.36	42 1/16 1068.39	22 9/16 573.09	24 5/8 625.48
		9	228.6	MAUF(†)09(*)(+)4548									
		12	304.8	MAUF(†)12(*)(+)4548									
		18	457.2	MAUF(†)18(*)(+)4548									
		24	609.6	MAUF(†)24(*)(+)4548									
		30	762	MAUF(†)30(*)(+)4548									
		36	914.4	MAUF(†)36(*)(+)4548									
		42	1,066.8	MAUF(†)42(*)(+)4548									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 45°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

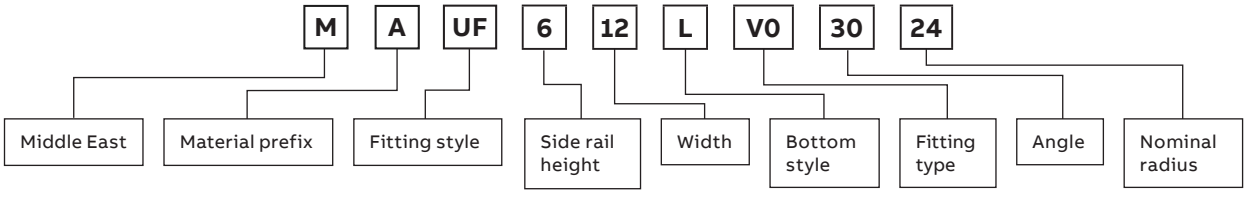
30° U-style vertical bend fittings

30° Vertical bend – U-style

	Nominal Radius		Nominal Width			(+) VO side rail 4" (101.6mm) - 7" (177.8mm)			(+) VI side rail 4" (101.6mm)		
	(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
Outside bend	12	304.8	6	152.4	MAUF(†)06(*)(+)3012	9¼ 234.95	2½ 63.50	4¹⁵⁄₁₆ 125.41	11⅜ 288.93	6¹¹⁄₁₆ 169.86	6¼ 153.99
			9	228.6	MAUF(†)09(*)(+)3012						
			12	304.8	MAUF(†)12(*)(+)3012						
			18	457.2	MAUF(†)18(*)(+)3012						
			24	609.6	MAUF(†)24(*)(+)3012						
			30	762	MAUF(†)30(*)(+)3012						
			36	914.4	MAUF(†)36(*)(+)3012						
			42	1,066.8	MAUF(†)42(*)(+)3012						
	24	609.6	6	152.4	MAUF(†)06(*)(+)3024	15¼ 387.35	4¹⁄₁₆ 103.19	8³⁄₁₆ 207.96	17⅜ 441.33	8¼ 209.55	9⁵⁄₁₆ 236.54
			9	228.6	MAUF(†)09(*)(+)3024						
			12	304.8	MAUF(†)12(*)(+)3024						
			18	457.2	MAUF(†)18(*)(+)3024						
			24	609.6	MAUF(†)24(*)(+)3024						
			30	762	MAUF(†)30(*)(+)3024						
			36	914.4	MAUF(†)36(*)(+)3024						
			42	1,066.8	MAUF(†)42(*)(+)3024						
Inside bend	36	914.4	6	152.4	MAUF(†)06(*)(+)3036	21¼ 250.83	5¹¹⁄₁₆ 250.83	11⅜ 250.83	23⅜ 250.83	9⅞ 250.83	12½ 317.50
			9	228.6	MAUF(†)09(*)(+)3036						
			12	304.8	MAUF(†)12(*)(+)3036						
			18	457.2	MAUF(†)18(*)(+)3036						
			24	609.6	MAUF(†)24(*)(+)3036						
			30	762	MAUF(†)30(*)(+)3036						
			36	914.4	MAUF(†)36(*)(+)3036						
			42	1,066.8	MAUF(†)42(*)(+)3036						
	48	1,219.2	6	152.4	MAUF(†)06(*)(+)3048	21¼ 539.75	7⁵⁄₁₆ 185.74	14⅝ 371.48	29⅜ 746.13	11½ 292.10	15¾ 400.05
			9	228.6	MAUF(†)09(*)(+)3048						
			12	304.8	MAUF(†)12(*)(+)3048						
			18	457.2	MAUF(†)18(*)(+)3048						
			24	609.6	MAUF(†)24(*)(+)3048						
			30	762	MAUF(†)30(*)(+)3048						
			36	914.4	MAUF(†)36(*)(+)3048						
			42	1,066.8	MAUF(†)42(*)(+)3048						

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



—

30° Vertical bend – U-style (continued)

Nominal Radius		Nominal Width			(+) VI side rail								
					5" (127mm)			6" (152.4mm)			7" (177.8mm)		
(in)	(mm)	(in)	(mm)	Cat. No.	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)	X (in) / (mm)	Y (in) / (mm)	Z (in) / (mm)
12	304.8	6	152.4	MAUF(†)06(*)(+)3012	11 13/16 300.04	7 9/16 192.09	6 5/16 160.34	12 3/8 314.33	8 11/16 220.66	6 5/8 168.28	12 7/8 327.03	9 3/4 247.65	6 7/8 174.63
		9	228.6	MAUF(†)09(*)(+)3012									
		12	304.8	MAUF(†)12(*)(+)3012									
		18	457.2	MAUF(†)18(*)(+)3012									
		24	609.6	MAUF(†)24(*)(+)3012									
		30	762	MAUF(†)30(*)(+)3012									
		36	914.4	MAUF(†)36(*)(+)3012									
		42	1,066.8	MAUF(†)42(*)(+)3012									
24	609.6	6	152.4	MAUF(†)06(*)(+)3024	17 13/16 452.44	9 3/16 233.36	9 9/16 242.89	18 3/8 466.73	10 1/4 260.35	9 13/16 249.24	18 7/8 479.43	11 5/16 287.34	10 1/8 257.18
		9	228.6	MAUF(†)09(*)(+)3024									
		12	304.8	MAUF(†)12(*)(+)3024									
		18	457.2	MAUF(†)18(*)(+)3024									
		24	609.6	MAUF(†)24(*)(+)3024									
		30	762	MAUF(†)30(*)(+)3024									
		36	914.4	MAUF(†)36(*)(+)3024									
		42	1,066.8	MAUF(†)42(*)(+)3024									
36	914.4	6	152.4	MAUF(†)06(*)(+)3036	23 13/16 273.05	10 3/4 273.05	12 3/4 323.85	24 3/8 619.13	11 7/8 301.63	13 1/16 331.79	24 7/8 631.83	12 15/16 328.61	13 5/16 338.14
		9	228.6	MAUF(†)09(*)(+)3036									
		12	304.8	MAUF(†)12(*)(+)3036									
		18	457.2	MAUF(†)18(*)(+)3036									
		24	609.6	MAUF(†)24(*)(+)3036									
		30	762	MAUF(†)30(*)(+)3036									
		36	914.4	MAUF(†)36(*)(+)3036									
		42	1,066.8	MAUF(†)42(*)(+)3036									
48	1,219.2	6	152.4	MAUF(†)06(*)(+)3048	29 13/16 757.24	12 3/8 314.33	16 406.40	30 3/8 771.53	13 1/2 342.90	16 1/4 412.75	30 7/8 784.23	14 9/16 369.89	16 9/16 420.69
		9	228.6	MAUF(†)09(*)(+)3048									
		12	304.8	MAUF(†)12(*)(+)3048									
		18	457.2	MAUF(†)18(*)(+)3048									
		24	609.6	MAUF(†)24(*)(+)3048									
		30	762	MAUF(†)30(*)(+)3048									
		36	914.4	MAUF(†)36(*)(+)3048									
		42	1,066.8	MAUF(†)42(*)(+)3048									

(†) Insert side rail height. (*) Insert bottom style (+) Insert "VO" for vertical outside or "VI" for vertical inside to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

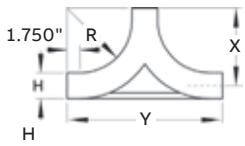
- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Angle: 30°
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

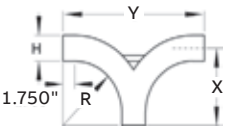
Aluminum fittings

U-style vertical tee up/down fittings

Vertical tee up/down – U-style

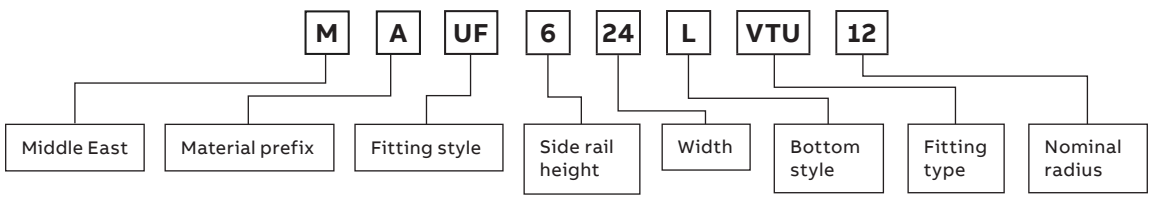
	Nominal Radius		Nominal Width				Side rail height "H"			
							4" (101.6mm)		5" (127mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up	12	304.8	6	152.4	MAUF(†)06(*)VTU12	MAUF(†)06(*)VTD12	15 13/16 401.64	31 11/16 804.86	16 5/16 414.34	32 9/16 827.09
			9	228.6	MAUF(†)09(*)VTU12	MAUF(†)09(*)VTD12				
			12	304.8	MAUF(†)12(*)VTU12	MAUF(†)12(*)VTD12				
			18	457.2	MAUF(†)18(*)VTU12	MAUF(†)18(*)VTD12				
			24	609.6	MAUF(†)24(*)VTU12	MAUF(†)24(*)VTD12				
			30	762	MAUF(†)30(*)VTU12	MAUF(†)30(*)VTD12				
			36	914.4	MAUF(†)36(*)VTU12	MAUF(†)36(*)VTD12				
			42	1,066.8	MAUF(†)42(*)VTU12	MAUF(†)42(*)VTD12				
	24	609.6	6	152.4	MAUF(†)06(*)VTU24	MAUF(†)06(*)VTD24	27 13/16 706.44	55 11/16 1414.46	28 5/16 719.14	56 9/16 1436.69
			9	228.6	MAUF(†)09(*)VTU24	MAUF(†)09(*)VTD24				
			12	304.8	MAUF(†)12(*)VTU24	MAUF(†)12(*)VTD24				
			18	457.2	MAUF(†)18(*)VTU24	MAUF(†)18(*)VTD24				
			24	609.6	MAUF(†)24(*)VTU24	MAUF(†)24(*)VTD24				
			30	762	MAUF(†)30(*)VTU24	MAUF(†)30(*)VTD24				
			36	914.4	MAUF(†)36(*)VTU24	MAUF(†)36(*)VTD24				
			42	1,066.8	MAUF(†)42(*)VTU24	MAUF(†)42(*)VTD24				
Down	36	914.4	6	152.4	MAUF(†)06(*)VTU36	MAUF(†)06(*)VTD36	39 13/16 1011.24	79 11/16 2024.06	40 5/16 1023.94	80 9/16 2046.29
			9	228.6	MAUF(†)09(*)VTU36	MAUF(†)09(*)VTD36				
			12	304.8	MAUF(†)12(*)VTU36	MAUF(†)12(*)VTD36				
			18	457.2	MAUF(†)18(*)VTU36	MAUF(†)18(*)VTD36				
			24	609.6	MAUF(†)24(*)VTU36	MAUF(†)24(*)VTD36				
			30	762	MAUF(†)30(*)VTU36	MAUF(†)30(*)VTD36				
			36	914.4	MAUF(†)36(*)VTU36	MAUF(†)36(*)VTD36				
			42	1,066.8	MAUF(†)42(*)VTU36	MAUF(†)42(*)VTD36				
	48	1,219.2	6	152.4	MAUF(†)06(*)VTU48	MAUF(†)06(*)VTD48	51 13/16 1316.04	103 11/16 2633.66	52 5/16 1328.74	104 9/16 2655.89
			9	228.6	MAUF(†)09(*)VTU48	MAUF(†)09(*)VTD48				
			12	304.8	MAUF(†)12(*)VTU48	MAUF(†)12(*)VTD48				
			18	457.2	MAUF(†)18(*)VTU48	MAUF(†)18(*)VTD48				
			24	609.6	MAUF(†)24(*)VTU48	MAUF(†)24(*)VTD48				
			30	762	MAUF(†)30(*)VTU48	MAUF(†)30(*)VTD48				
			36	914.4	MAUF(†)36(*)VTU48	MAUF(†)36(*)VTD48				
			42	1,066.8	MAUF(†)42(*)VTU48	MAUF(†)42(*)VTD48				





(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-Style. These systems are interchangeable.

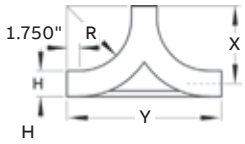
Fitting number selection

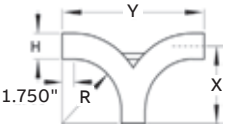


—

Vertical tee up/down – U-style (continued)

	Nominal Radius		Nominal Width				Side rail height "H"			
							6" (152.4mm)		7" (177.8mm)	
	(in)	(mm)	(in)	(mm)	Vertical tee up Cat. No.	Vertical tee down Cat. No.	X (in) / (mm)	Y (in) / (mm)	X (in) / (mm)	Y (in) / (mm)
Up	12	304.8	6	152.4	MAUF(†)06(*)VTU12	MAUF(†)06(*)VTD12	16⅞ 428.63	33¾ 857.25	17⅜ 441.33	34¾ 882.65
			9	228.6	MAUF(†)09(*)VTU12	MAUF(†)09(*)VTD12				
			12	304.8	MAUF(†)12(*)VTU12	MAUF(†)12(*)VTD12				
			18	457.2	MAUF(†)18(*)VTU12	MAUF(†)18(*)VTD12				
			24	609.6	MAUF(†)24(*)VTU12	MAUF(†)24(*)VTD12				
			30	762	MAUF(†)30(*)VTU12	MAUF(†)30(*)VTD12				
			36	914.4	MAUF(†)36(*)VTU12	MAUF(†)36(*)VTD12				
			42	1,066.8	MAUF(†)42(*)VTU12	MAUF(†)42(*)VTD12				
	24	609.6	6	152.4	MAUF(†)06(*)VTU24	MAUF(†)06(*)VTD24	28⅞ 733.43	57¾ 1466.85	29⅜ 746.13	58¾ 1492.25
			9	228.6	MAUF(†)09(*)VTU24	MAUF(†)09(*)VTD24				
			12	304.8	MAUF(†)12(*)VTU24	MAUF(†)12(*)VTD24				
			18	457.2	MAUF(†)18(*)VTU24	MAUF(†)18(*)VTD24				
			24	609.6	MAUF(†)24(*)VTU24	MAUF(†)24(*)VTD24				
			30	762	MAUF(†)30(*)VTU24	MAUF(†)30(*)VTD24				
			36	914.4	MAUF(†)36(*)VTU24	MAUF(†)36(*)VTD24				
			42	1,066.8	MAUF(†)42(*)VTU24	MAUF(†)42(*)VTD24				
Down	36	914.4	6	152.4	MAUF(†)06(*)VTU36	MAUF(†)06(*)VTD36	40⅞ 1038.23	81¾ 2076.45	41⅜ 1050.93	82¾ 2101.85
			9	228.6	MAUF(†)09(*)VTU36	MAUF(†)09(*)VTD36				
			12	304.8	MAUF(†)12(*)VTU36	MAUF(†)12(*)VTD36				
			18	457.2	MAUF(†)18(*)VTU36	MAUF(†)18(*)VTD36				
			24	609.6	MAUF(†)24(*)VTU36	MAUF(†)24(*)VTD36				
			30	762	MAUF(†)30(*)VTU36	MAUF(†)30(*)VTD36				
			36	914.4	MAUF(†)36(*)VTU36	MAUF(†)36(*)VTD36				
			42	1,066.8	MAUF(†)42(*)VTU36	MAUF(†)42(*)VTD36				
	48	1,219.2	6	152.4	MAUF(†)06(*)VTU48	MAUF(†)06(*)VTD48	52⅞ 1343.03	105¾ 2686.05	53⅜ 1355.73	106¾ 2711.45
			9	228.6	MAUF(†)09(*)VTU48	MAUF(†)09(*)VTD48				
			12	304.8	MAUF(†)12(*)VTU48	MAUF(†)12(*)VTD48				
			18	457.2	MAUF(†)18(*)VTU48	MAUF(†)18(*)VTD48				
			24	609.6	MAUF(†)24(*)VTU48	MAUF(†)24(*)VTD48				
			30	762	MAUF(†)30(*)VTU48	MAUF(†)30(*)VTD48				
			36	914.4	MAUF(†)36(*)VTU48	MAUF(†)36(*)VTD48				
			42	1,066.8	MAUF(†)42(*)VTU48	MAUF(†)42(*)VTD48				





(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes two pairs of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-Style. These systems are interchangeable.

—

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

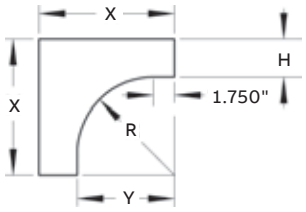
Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Aluminum fittings

U-style cable support fittings

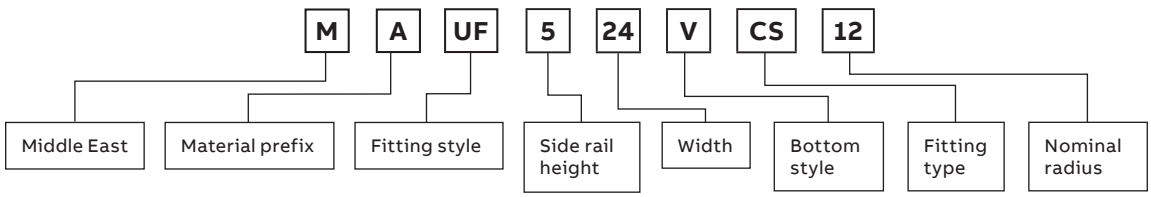
Cable support fitting – U-style



Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Side rail height "H" 4" (101.6mm) X (in) / (mm)	4" (101.6mm) Y (in) / (mm)	5" (127mm) X (in) / (mm)	5" (127mm) Y (in) / (mm)	6" (152.4mm) X (in) / (mm)	6" (152.4mm) Y (in) / (mm)
12	304.8	6	152.4	MAUF(†)06(*)(+)9012	17 15/16 455.61	13 3/4 349.25	18 13/16 477.84	13 3/4 349.25	20 508.00	13 3/4 349.25
		9	228.6	MAUF(†)09(*)(+)9012						
		12	304.8	MAUF(†)12(*)(+)9012						
		18	457.2	MAUF(†)18(*)(+)9012						
		24	609.6	MAUF(†)24(*)(+)9012						
		30	762	MAUF(†)30(*)(+)9012						
		36	914.4	MAUF(†)36(*)(+)9012						
		42	1,066.8	MAUF(†)42(*)(+)9012						
24	609.6	6	152.4	MAUF(†)06(*)(+)9024	29 15/16 760.41	25 3/4 654.05	30 13/16 782.64	25 3/4 654.05	32 812.80	25 3/4 654.05
		9	228.6	MAUF(†)09(*)(+)9024						
		12	304.8	MAUF(†)12(*)(+)9024						
		18	457.2	MAUF(†)18(*)(+)9024						
		24	609.6	MAUF(†)24(*)(+)9024						
		30	762	MAUF(†)30(*)(+)9024						
		36	914.4	MAUF(†)36(*)(+)9024						
		42	1,066.8	MAUF(†)42(*)(+)9024						
36	914.4	6	152.4	MAUF(†)06(*)(+)9036	41 15/16 1065.21	37 3/4 958.85	42 13/16 1087.44	37 3/4 958.85	44 1117.60	37 3/4 958.85
		9	228.6	MAUF(†)09(*)(+)9036						
		12	304.8	MAUF(†)12(*)(+)9036						
		18	457.2	MAUF(†)18(*)(+)9036						
		24	609.6	MAUF(†)24(*)(+)9036						
		30	762	MAUF(†)30(*)(+)9036						
		36	914.4	MAUF(†)36(*)(+)9036						
		42	1,066.8	MAUF(†)42(*)(+)9036						
48	1,219.2	6	152.4	MAUF(†)06(*)(+)9048	53 15/16 1370.01	49 3/4 1263.65	54 13/16 1392.24	49 3/4 1263.65	56 1422.40	49 3/4 1263.65
		9	228.6	MAUF(†)09(*)(+)9048						
		12	304.8	MAUF(†)12(*)(+)9048						
		18	457.2	MAUF(†)18(*)(+)9048						
		24	609.6	MAUF(†)24(*)(+)9048						
		30	762	MAUF(†)30(*)(+)9048						
		36	914.4	MAUF(†)36(*)(+)9048						
		42	1,066.8	MAUF(†)42(*)(+)9048						

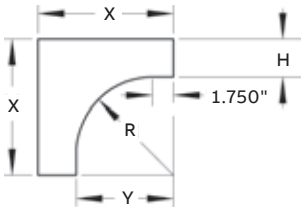
(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

Fitting number selection



Cable support fitting – U-style (continued)

Nominal Radius (in)	Nominal Radius (mm)	Nominal Width (in)	Nominal Width (mm)	Cat. No.	Side rail height "H" 7" (177.8mm) X (in) / (mm)	Side rail height "H" 7" (177.8mm) Y (in) / (mm)
12	304.8	6	152.4	MAUF(†)06(*)(+)9012	21	13¾
		9	228.6	MAUF(†)09(*)(+)9012	533.40	349.25
		12	304.8	MAUF(†)12(*)(+)9012		
		18	457.2	MAUF(†)18(*)(+)9012		
		24	609.6	MAUF(†)24(*)(+)9012		
		30	762	MAUF(†)30(*)(+)9012		
		36	914.4	MAUF(†)36(*)(+)9012		
		42	1,066.8	MAUF(†)42(*)(+)9012		
24	609.6	6	152.4	MAUF(†)06(*)(+)9024	33	25¾
		9	228.6	MAUF(†)09(*)(+)9024	838.20	654.05
		12	304.8	MAUF(†)12(*)(+)9024		
		18	457.2	MAUF(†)18(*)(+)9024		
		24	609.6	MAUF(†)24(*)(+)9024		
		30	762	MAUF(†)30(*)(+)9024		
		36	914.4	MAUF(†)36(*)(+)9024		
		42	1,066.8	MAUF(†)42(*)(+)9024		
36	914.4	6	152.4	MAUF(†)06(*)(+)9036	45	37¾
		9	228.6	MAUF(†)09(*)(+)9036	1143.00	958.85
		12	304.8	MAUF(†)12(*)(+)9036		
		18	457.2	MAUF(†)18(*)(+)9036		
		24	609.6	MAUF(†)24(*)(+)9036		
		30	762	MAUF(†)30(*)(+)9036		
		36	914.4	MAUF(†)36(*)(+)9036		
		42	1,066.8	MAUF(†)42(*)(+)9036		
48	1,219.2	6	152.4	MAUF(†)06(*)(+)9048	57	49¾
		9	228.6	MAUF(†)09(*)(+)9048	1447.80	1263.65
		12	304.8	MAUF(†)12(*)(+)9048		
		18	457.2	MAUF(†)18(*)(+)9048		
		24	609.6	MAUF(†)24(*)(+)9048		
		30	762	MAUF(†)30(*)(+)9048		
		36	914.4	MAUF(†)36(*)(+)9048		
		42	1,066.8	MAUF(†)42(*)(+)9048		



(†) Insert side rail height. (*) Insert bottom style to complete Cat. No. Includes one pair of splice plates with hardware.
T&B aluminum cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.

*Dimension
Conversion Table:
6" = 152.4mm
9" = 228.6mm
12" = 304.8mm
18" = 355.6mm
24" = 457.2mm
30" = 762mm
36" = 914.4mm
42" = 1,066.8mm

Selection guide

- Inside tray widths: 6, 9, 12, 18, 24, 30, 36, 42" (*mm)
- Nominal radius: 12, 24, 36, 48" (*mm)
- Bottom styles: L - ladder, V - ventilated, S - solid
- Side rail heights: 4 - 7" (101.6 - 177.8mm)

Steel
Straight sections

Straight sections

Straight sections are available in steel in a range of finishes.

Steel
Pre-fabricated steel section with side rails connected by rungs.

Features
- Choice of pre-galvanized, hot dip galvanized or type 316 stainless steel (type 304 stainless steel to special order)
- Nominal siderail height 3⅝" to 7" (92.1mm to 177.8mm)
- Loading height 2 ⅝" to 6" (66.68mm to 152.4mm)
- Extra wide rung design with continuous open slot, reverse position every second rung and Ty-Rap® cable tie slots ⅝" x ⅝" (15.88mm x 15.88mm)
- Extra wide rung design with continuous open slot, reverse position every second rung and Ty-Rap® cable tie slots ⅝" x ⅝" (15.88mm x 15.88mm)

Load rating/NEMA Class - Steel

Side rail height (in)	(mm)	Series	Load depth (nominal) (in)	(mm)	NEMA Class
3⅝	92.08	MS*-1-3	2⅝	66.68	12A
4	101.6	MS*-1-4	3	76.2	12C
		MS*-3-4			20A
5	127	MS*-2-5	4	127	20A
		MS*-4-5			20B
		MS*-5-5			20C
6	152.4	MS*-0-6	5	127	12C
		MS*-1-6			20A
		MS*-3-6			20B
		MS*-4-6			20C
7	177.8	MS*-3-7	6	152.4	20C

NOTE: These ratings are also used in Mexico.
Replace * with letter reference for material type:
P = Pre-galvanized H = Hot dip galvanized S = Stainless steel 316

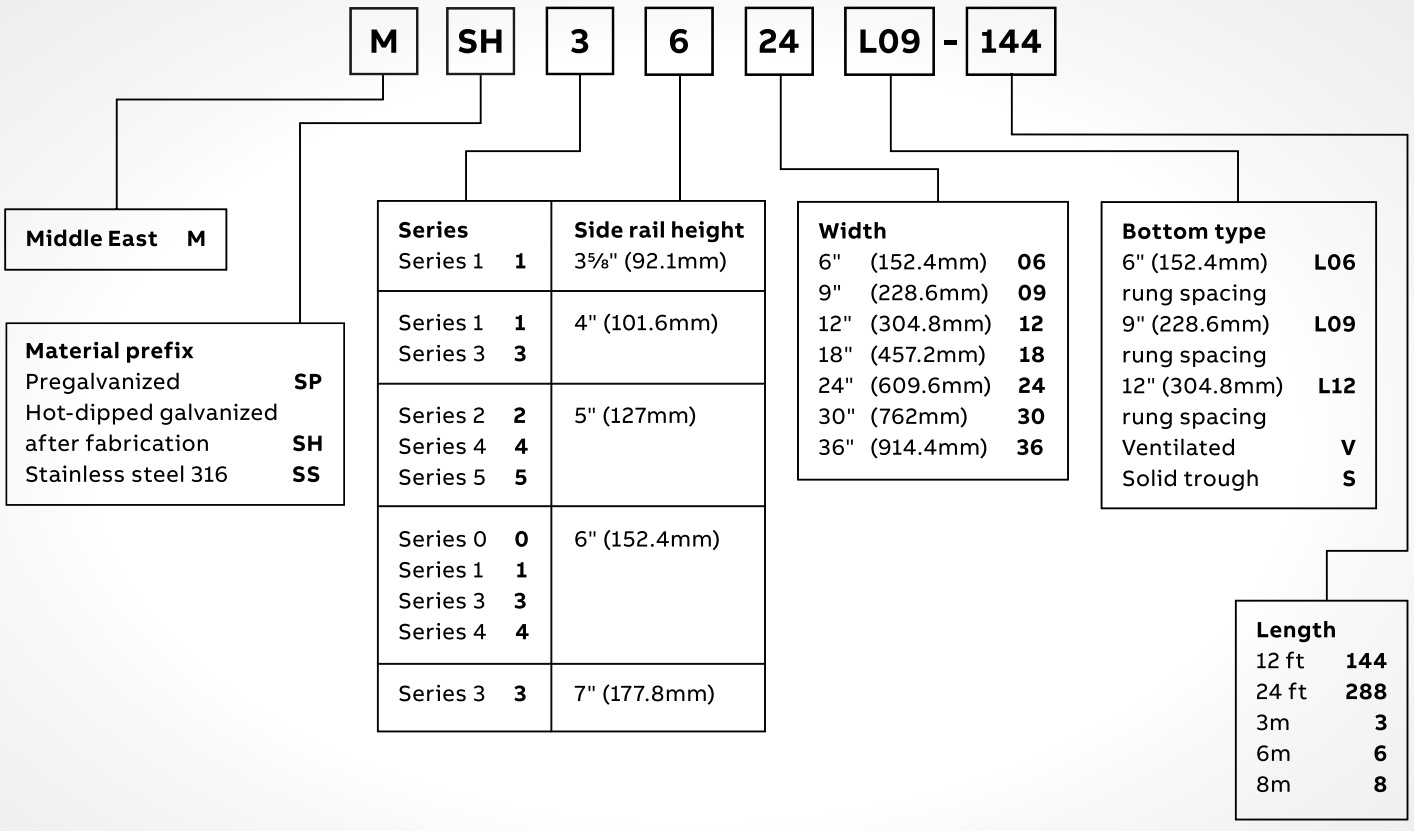
Product selection - straight section

How to create catalogue numbers
Straight section part numbers are created using a range of selection criteria.

Determine the most suitable cable ladder type based on the parametres 1 to 5 shown right, then use the tables on the following page to create the exact part number for your needs.

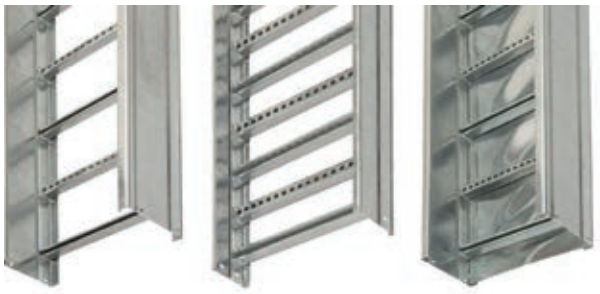
Method
1. Select the material best suited to the installation environment.
2. Define the ladder series to NEMA class/loadings (see table below for aluminium loadings).
4. Specify the bottom type based on the cables/spacing required
5. Establish the length of cable ladder in metres or inches

Note: All straight section types are suitable for use with both U-style and H-style fitting systems.



Steel straight sections

3⅝" (Straight sections / Series 1-3 - Ladder, ventilated and solid trough



3⅝" Straight sections / Series 1-3 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

		Classifications	Support span ft (m)			
Series		**NEMA**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**	**12' (3.66m)**
MSP1-3 MSH1-3 MSS1-3	**Load (lb)/ft)**	12A	200	112.5	72	50
	Load (kg)/m)		297.63	167.42	107.15	74.41
	Deflection (in)		0.250	0.445	0.695	1.001
	Deflection (mm)		6.35	11.30	17.65	25.43
	Deflection factor		0.0013	0.0040	0.0097	0.0097

Straight section number selection

M **SH** **1** **3** **24** **L09** - **3**

Middle East M

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 1 **1**

Side rail height
3⅝" (92.08mm) **3**

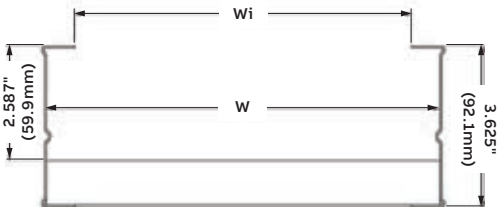
Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**

Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
12 ft **144**
3m **3**

For fittings, consult pages 470 - 471.

Dimensions

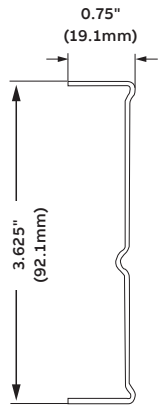


	MSP1-3, MSH1-3, MSS1-3			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	4.5	114.3
	9	228.6	7.5	190.5
	12	304.8	10.5	266.7
	18	457.2	16.5	419.1
	24	609.6	22.5	571.5
	30	762	28.5	723.9
	36	914.4	34.5	876.3

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

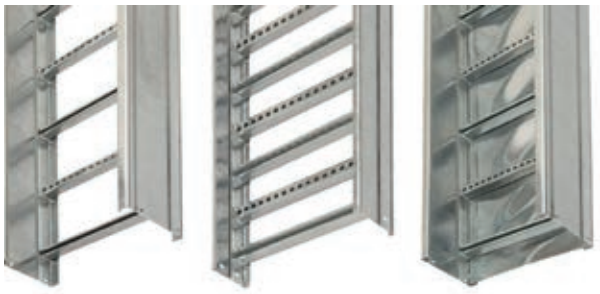
Load ratings: 1.5 safety factor



	Series	Side rail design factors 1 pair	Classifications		
			NEMA	CSA	UL®
	MSP1-3 MSH1-3 MSS1-3	Ix = 0.81"⁴ (33.71cm⁴) Sx = 0.44"³ (7.21cm³) Area = 0.49"² (3.16cm²)	12A	C/3 m	UL cross sectional area: 0.40"² (2.58cm²)

Steel straight sections

4" Straight sections / Series 1-4, 3-4 - Ladder, ventilated and solid trough



Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

4" Straight sections / Series 1-4, 3-4 – Ladder, ventilated and solid trough

		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
MSP1-4 MSH1-4 MSS1-4	Load (lb)/ft)	12C	420	236	151	105	–	–	–	–
	Load (kg)/m)		625.03	351.21	224.71	156.26	–	–	–	–
	Deflection (in)		0.420	0.473	0.756	1.155	–	–	–	–
	Deflection (mm)		10.67	12.01	19.20	29.34	–	–	–	–
	Deflection factor		0.001	0.002	0.005	0.011	–	–	–	–
MSP3-4 MSH3-4 MSS3-4	Load (lb)/ft)	20A	556	313	200	139	102	78	62	50
	Load (kg)/m)		827.42	465.80	297.63	206.86	151.80	116.08	92.27	74.41
	Deflection (in)		0.193	0.344	0.537	0.773	1.052	1.375	1.740	2.148
	Deflection (mm)		4.90	8.74	13.64	19.63	26.72	34.93	44.20	54.56
	Deflection factor		0.0003	0.0011	0.0027	0.0056	0.0103	0.0176	0.0282	0.0430

Straight section number selection

M **SH** **3** **4** **24** **L09** - **144**

Middle East M

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 1* **1**
Series 3 **3**

Side rail height
4" (101.6mm) **4**

Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**

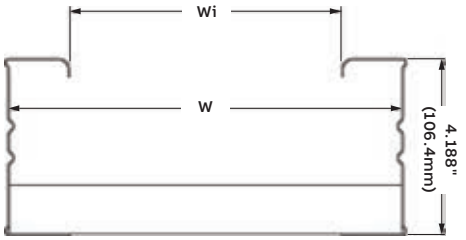
Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
12 ft **144**
24 ft **288**
3m **3**
6m **6**

* Series 1 is not available in 288" or 6 metre lengths

For fittings, consult pages 470 - 471.

Dimensions



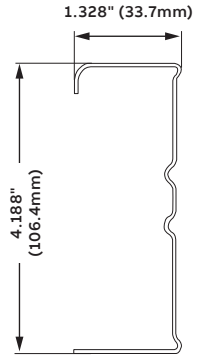
	MSP1-4, MSH1-4, MSS1-4, MSP3-4, MSH3-4, MSS3-4			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	3.34	84.84
	9	228.6	6.34	161.04
	12	304.8	9.34	237.24
	18	457.2	15.34	389.64
	24	609.6	21.34	542.04
	30	762	27.34	694.44
	36	914.4	33.34	846.84

SECTION 24

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



		Classifications		
Series	Side rail design factors 1 pair	NEMA	CSA	UL®
MSP1-4 **MSH1-4** **MSS1-4**	Ix = 1.97"⁴ (82cm⁴) Sx = 0.79"³ (12.95cm³) Area = 0.68"² (4.39cm²)	12C	D/3 m	UL cross sectional area: 0.70"² (4.52cm²)
MSP3-4 **MSH3-4** **MSS3-4**	Ix = 2.22"⁴ (92.4cm⁴) Sx = 1.02"³ (16.71cm³) Area = 1.08"² (6.97cm²)	20A	D/6 m	UL cross sectional area: 0.70"² (4.52cm²)

Steel straight sections

5" Straight sections / Series 2-5, 4-5, 5-5 - Ladder, ventilated and solid trough

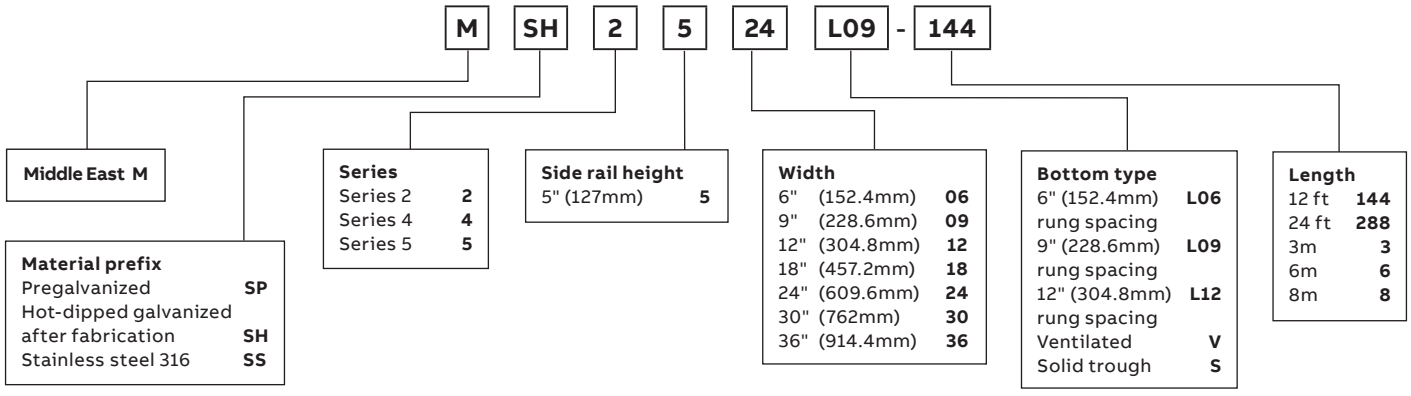
Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

5" Straight sections / Series 2-5, 4-5, 5-5 – Ladder, ventilated and solid trough

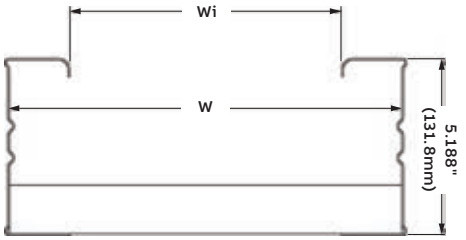
		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
MSP2-5 MSH2-5 MSS2-5	Load (lb)/ft)	20A	556	313	200	139	102	78	62	50
	Load (kg)/m)		827.42	465.80	297.63	206.86	151.79	116.08	92.27	74.41
	Deflection (in)		0.193	0.344	0.537	0.773	1.052	1.375	1.740	2.148
	Deflection (mm)		4.90	8.74	13.64	19.63	26.72	34.93	44.20	54.56
	Deflection factor		0.0003	0.0011	0.0027	0.0056	0.0103	0.0176	0.0282	0.0430
MSP4-5 MSH4-5 MSS4-5	Load (lb)/ft)	20B	833	469	298	208	153	117	92	75
	Load (kg)/m)		1239.64	697.95	443.47	309.54	227.69	174.12	136.92	111.61
	Deflection (in)		0.223	0.397	0.617	0.894	1.217	1.589	1.998	2.483
	Deflection (mm)		5.66	10.08	15.67	22.71	30.91	40.36	50.75	63.07
	Deflection factor		0.003	0.0008	0.0021	0.0043	0.0079	0.0136	0.0217	0.0331
MSP5-5 MSH5-5 MSS5-5	Load (lb)/ft)	20C	111	625	298	278	204	156	92	100
	Load (kg)/m)		165.19	930.10	443.47	413.71	303.59	232.15	136.91	148.82
	Deflection (in)		0.241	0.429	0.499	0.964	1.312	1.714	0.617	2.678
	Deflection (mm)		6.12	10.90	12.67	24.49	33.32	43.54	15.67	68.02
	Deflection factor		0.0002	0.0007	0.0017	0.0035	0.0064	0.0110	0.0176	0.0268

Straight section number selection



For fittings, consult pages 470 - 471.

Dimensions

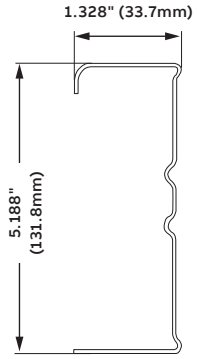


	MSP2-5, MSH2-5, MSS2-5, MSP4-5, MSH4-5, MSS4-5, MSP5-5, MSH5-5, MSS5-5			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	3.34	84.84
	9	228.6	6.34	161.04
	12	304.8	9.34	237.24
	18	457.2	15.34	389.64
	24	609.6	21.34	542.04
	30	762	27.34	694.44
	36	914.4	33.34	846.84

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

Load ratings: 1.5 safety factor



	Series	Side rail design factors 1 pair	Classifications		
			NEMA	CSA	UL®
	MSP2-5 **MSH2-5** **MSS2-5**	Ix = 2.89"⁴ (120.29cm⁴) Sx = 1.09"³ (17.86cm³) Area = 0.78"² (5.03cm²)	20A	D/3 m	UL cross sectional area: 0.70"² (4.52cm²)
	MSP4-5 **MSH4-5** **MSS4-5**	Ix = 3.75"⁴ (156.09cm⁴) Sx = 1.40"³ (22.94cm³) Area = 1.02"² (6.58cm²)	20B	E/6 m	UL cross sectional area: 1.00"² (6.45cm²)
	MSP5-5 **MSH5-5** **MSS5-5**	Ix = 4.64"⁴ (193.13cm⁴) Sx = 1.73"³ (28.35cm³) Area = 1.24"² (8cm²)	20C	–	UL cross sectional area: 1.00"² (6.45cm²)

Steel straight sections

6" Straight sections / Series 1-6, 3-6, 4-6 - Ladder, ventilated and solid trough

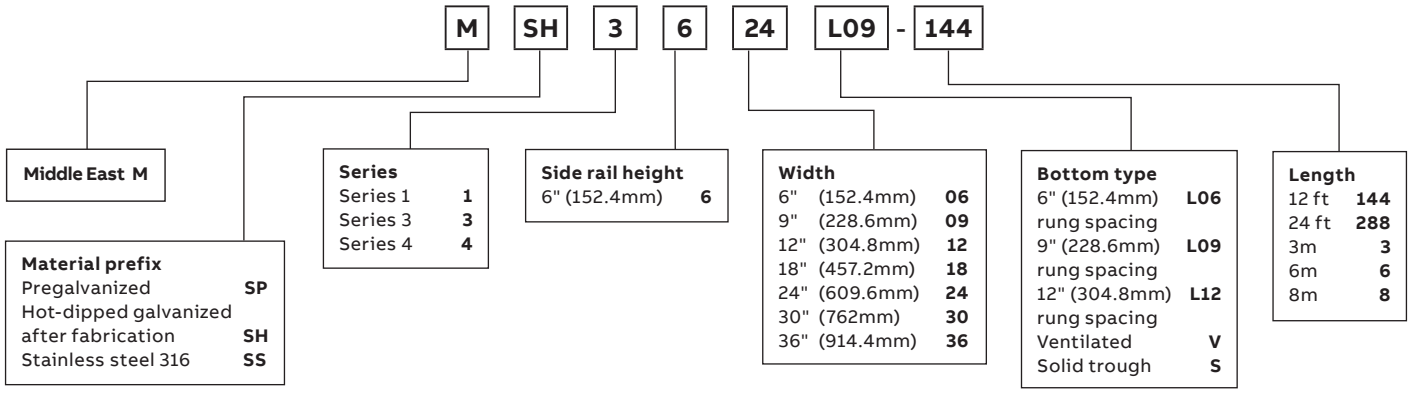
Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

6" Straight sections / Series 1-6, 3-6, 4-6 – Ladder, ventilated and solid trough

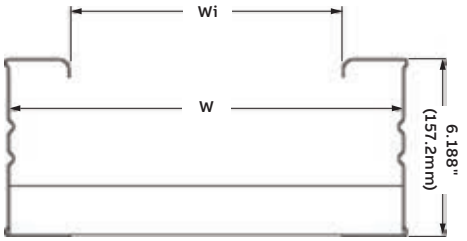
		Classifications	Support span ft (m)							
Series		NEMA	6' (1.83m)	8' (2.44m)	10' (3.05m)	12' (3.66m)	14' (4.27m)	16' (4.88m)	18' (5.49m)	20' (6.10m)
MSP1-6 MSH1-6 MSS1-6	Load (lb)/ft)	20A	556	313	200	139	102	78	62	50
	Load (kg)/m)		827.42	465.80	297.64	206.86	151.80	116.08	92.27	74.41
	Deflection (in)		0.126	0.244	0.349	0.503	0.685	0.895	1.132	1.398
	Deflection (mm)		3.20	6.20	8.86	12.78	17.40	22.73	28.75	35.51
	Deflection factor		0.0002	0.0007	0.0017	0.0036	0.0067	0.0115	0.0183	0.0280
MSP3-6 MSH3-6 MSS3-6	Load (lb)/ft)	20B	833	469	298	208	153	117	92	75
	Load (kg)/m)		1239.64	697.95	443.47	309.54	227.69	174.12	136.91	111.61
	Deflection (in)		0.156	0.277	0.433	0.624	0.849	1.109	1.404	1.733
	Deflection (mm)		3.96	7.04	11	15.85	21.56	28.17	35.66	44.02
	Deflection factor		0.0002	0.0006	0.0014	0.0030	0.0055	0.0095	0.0152	0.0231
MSP4-6 MSH4-6 MSS4-6	Load (lb)/ft)	20C+	1289	725	464	322	237	181	143	116
	Load (kg)/m)		1918.24	1078.92	690.51	479.19	352.70	269.36	212.81	172.63
	Deflection (in)		0.181	0.321	0.502	0.723	0.984	1.285	1.626	2.008
	Deflection (mm)		4.60	8.15	12.75	18.36	25.00	32.64	41.30	51
	Deflection factor		0.0001	0.0004	0.0011	0.0022	0.0042	0.0071	0.0114	0.0173

Straight section number selection



For fittings, consult pages 470 - 471.

Dimensions

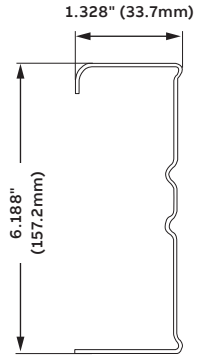


	MSP1-6, MSH1-6, MSS1-6, MSP3-6, MSH3-6, MSS3-6, MSP4-6, MSH4-6, MSS4-6			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	3.34	84.84
	9	228.6	6.34	161.04
	12	304.8	9.34	237.24
	18	457.2	15.34	389.64
	24	609.6	21.34	542.04
	30	762	27.34	694.44
	36	914.4	33.34	846.84

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

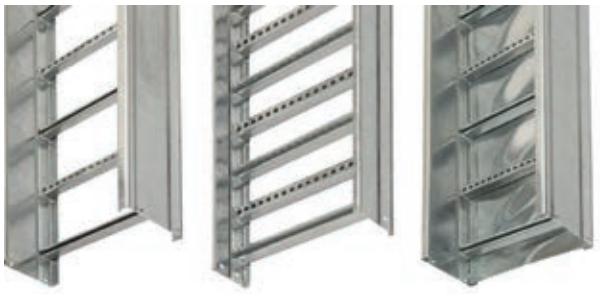
Load ratings: 1.5 safety factor



Series	Side rail design factors 1 pair	Classifications		
		NEMA	CSA	UL®
MSP1-6 **MSH1-6** **MSS1-6**	Ix = 4.44"⁴ (184.81cm⁴) Sx = 1.39"³ (22.78cm³) Area = 0.87"² (5.61cm²)	20A	D/3 m	UL cross sectional area: 0.70"² (4.52cm²)
MSP3-6 **MSH3-6** **MSS3-6**	Ix = 5.37"⁴ (223.52cm⁴) Sx = 1.70"³ (27.86cm³) Area = 1.40"² (9.03cm²)	20B	E/6 m	UL cross sectional area: 1.00"² (6.45cm²)
MSP4-6 **MSH4-6** **MSS4-6**	Ix = 7.17"⁴ (298.44cm⁴) Sx = 2.25"³ (36.87cm³) Area = 1.40"² (9.03cm²)	Exceeds 20C	–	UL cross sectional area: 1.00"² (6.45cm²)

Steel straight sections

7" Straight sections / Series 3-7 - Ladder, ventilated and solid trough



7" Straight sections / Series 3-7 – Ladder, ventilated and solid trough

Technical specifications
All calculations and data are based on 36" (914.4mm) wide cable trays with rungs spaced on 12" (304.8mm) centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor: For lighter loads, deflection can be calculated by multiplying the load by the deflection factor.

		Classifications	Support span ft (m)							
Series		**NEMA**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**	**12' (3.66m)**	**14' (4.27m)**	**16' (4.88m)**	**18' (5.49m)**	**20' (6.10m)**
MSP3-7 MSH3-7 MSS3-7	**Load (lb)/ft)**	20C+	1333	750	480	333	245	188	148	120
	Load (kg)/m)		1983.72	1116.12	714.32	495.56	364.60	279.78	220.25	178.58
	Deflection (in)		0.133	0.225	0.480	0.667	0.735	1.125	1.333	1.680
	Deflection (mm)		3.38	5.72	12.19	16.94	18.67	28.58	33.86	42.67
	Deflection factor		0.0001	0.0003	0.001	0.002	0.003	0.006	0.009	0.014

Straight section number selection

M **SH** **3** **7** **24** **L09** - **288**

Middle East M

Material prefix
Pregalvanized **SP**
Hot-dipped galvanized after fabrication **SH**
Stainless steel 316 **SS**

Series
Series 3 **3**

Side rail height
7" (177.8mm) **7**

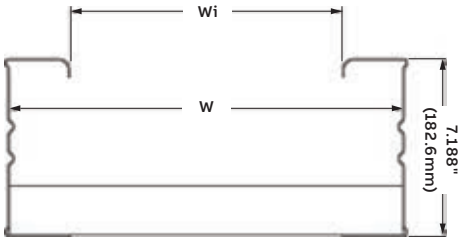
Width
6" (152.4mm) **06**
9" (228.6mm) **09**
12" (304.8mm) **12**
18" (457.2mm) **18**
24" (609.6mm) **24**
30" (762mm) **30**
36" (914.4mm) **36**

Bottom type
6" (152.4mm) rung spacing **L06**
9" (228.6mm) rung spacing **L09**
12" (304.8mm) rung spacing **L12**
Ventilated **V**
Solid trough **S**

Length
12 ft **144**
24 ft **288**
3m **3**
6m **6**
8m **8**

For fittings, consult pages 470 - 471.

Dimensions

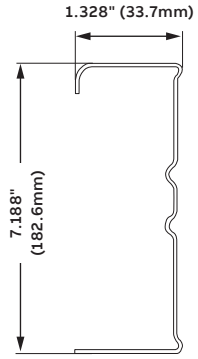


	MSP3-7, MSH3-7, MSS3-7			
	W (in)	W (mm)	Wi (in)	Wi (mm)
	6	152.4	3.34	84.84
	9	228.6	6.34	161.04
	12	304.8	9.34	237.24
	18	457.2	15.34	389.64
	24	609.6	21.34	542.04
	30	762	27.34	694.44
	36	914.4	33.34	846.84

Technical specifications

Load ratings: 1.5 Safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

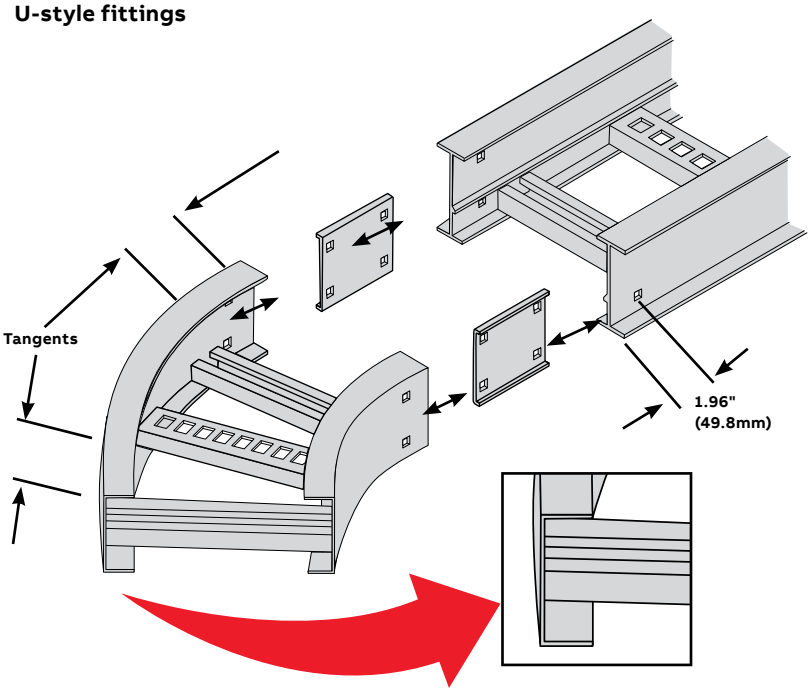
Load ratings: 1.5 safety factor



			Classifications		
	Series	Side rail design factors 1 pair	NEMA	CSA	UL®
	MSP3-7 MSH3-7 MSS3-7	Ix = 10.41"⁴ (433.3cm⁴) Sx = 2.82"³ (46.21cm³) Area = 1.54"² (9.94cm²)	Exceeds 20C	–	UL cross sectional area: 1.50"² (9.68cm²)

Steel
Fittings for cable ladder

U-style fittings



U-style

Fittings constructed with the siderail flanges on the inside only, creating a U-shaped fitting style.

Features and benefits
- Simple, functional design
- Tangents on fittings
- 7" splice plate (aluminium splice plates ‘snap-in’ for added convenience)

Benefits
- Offers maximum quality versus cost ratios of the installation
- Easy to install
- Occupies less space in areas where space is restricted
- Easy alignment between straight sections and fittings
- Splice plate holds components while hardware is inserted
- Lighter fittings are easy to handle

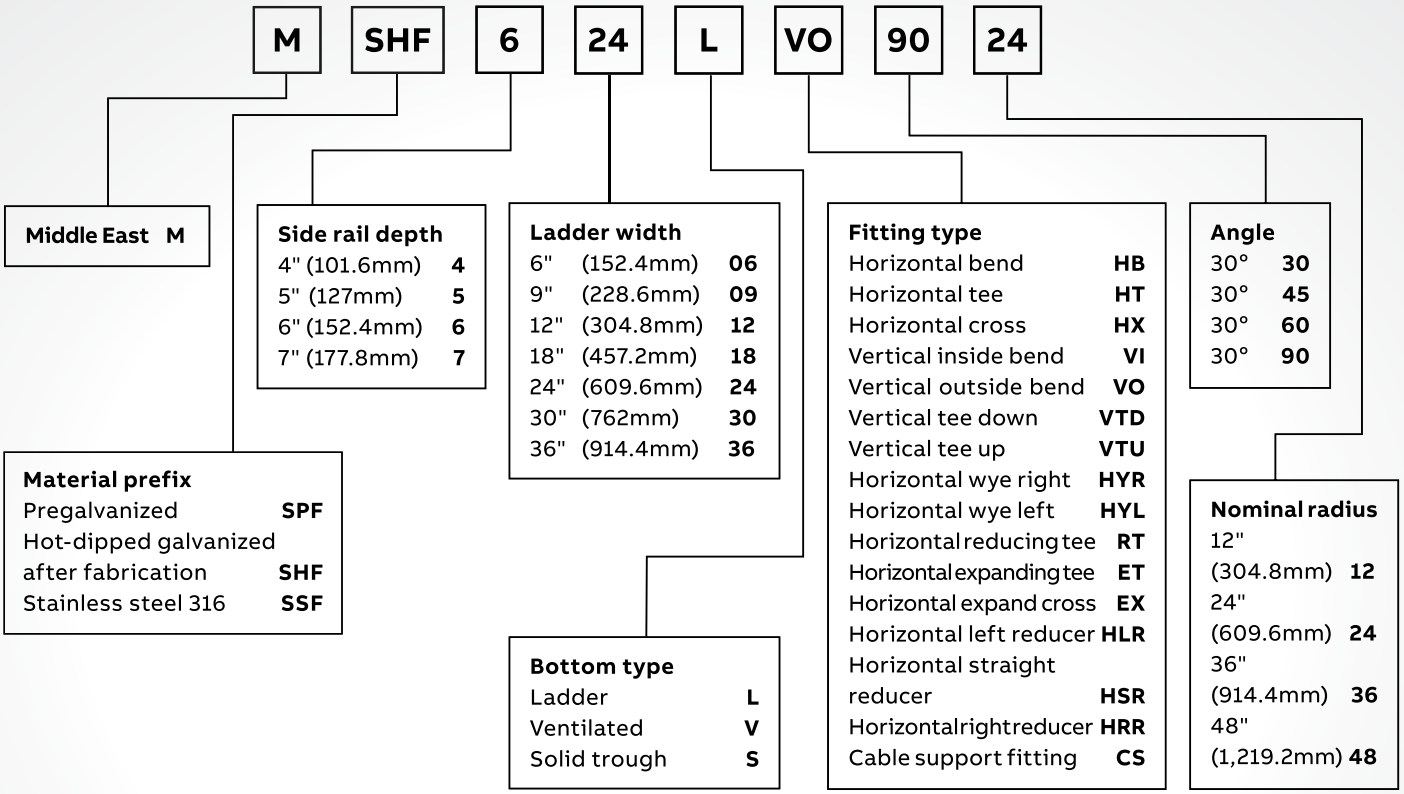
Product selection - fittings

How to create catalogue numbers
Fitting part numbers are based on a range of selection criteria, dependent on the type of fitting and the role undertaken in the cable ladder system.

Over the following pages, the selection criteria for each fitting type is established in table form.

Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown. Images of fittings are provided to assist with selection.

Method
1. Material type
2. Siderail height & ladder width(s)
3. Bottom type and fitting type
4. Angle
5. Nominal radius



Aluminium
Covers

—
01 / 02 Solid covers
—
03 Ventilated flanged covers
—
04 Peaked flanged covers / peaked ventilated covers

—
04

—
01

—
02

—
03

—
04

Straight cover number selection

Tray covers
Tray covers are available for all classes of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Cover mounting hardware must be ordered separately.

1) Solid covers (01 & 02)
These covers provide maximum mechanical protection for cables with limited heat build up. Solid covers are available with or without flange. Flanged covers have a ½" (12.7mm) flange.

Cover mounting hardware must be ordered separately.

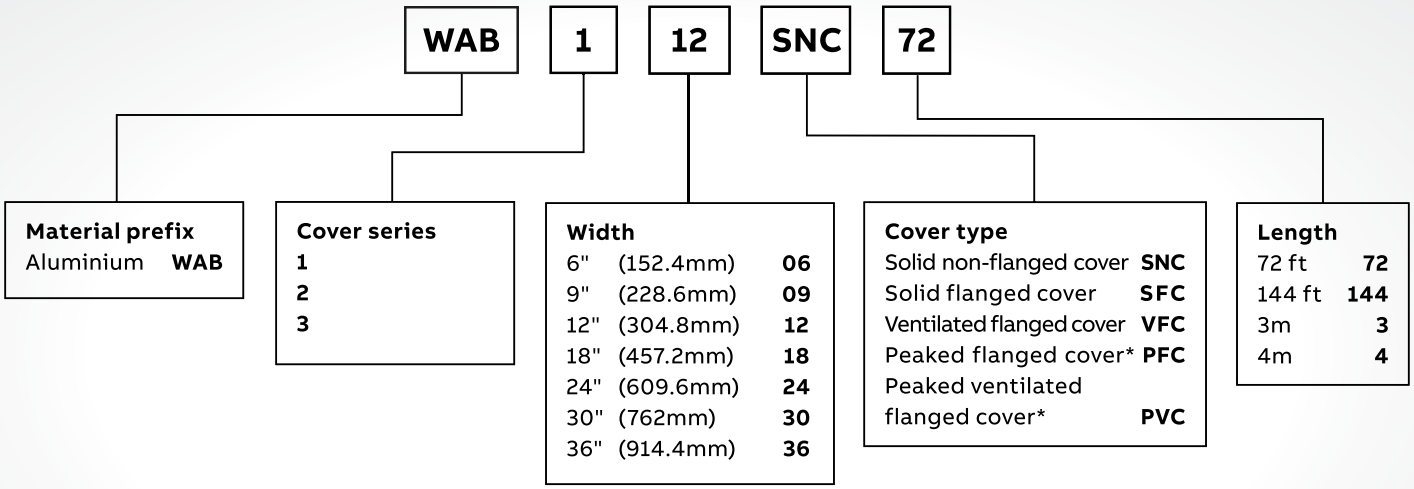
2) Ventilated flanged covers (03)
This design offers excellent mechanical protection while allowing heat produced by cables to dissipate.

Cover mounting hardware must be ordered separately.

3) For extreme applications: Peaked flanged covers / peaked ventilated covers (04)
Peaked covers offer mechanical protection, reduce pooling of liquids on the cover and the accumulation of snow or ice. Peaked covers have a 15° angle.

Cover mounting hardware must be ordered separately.

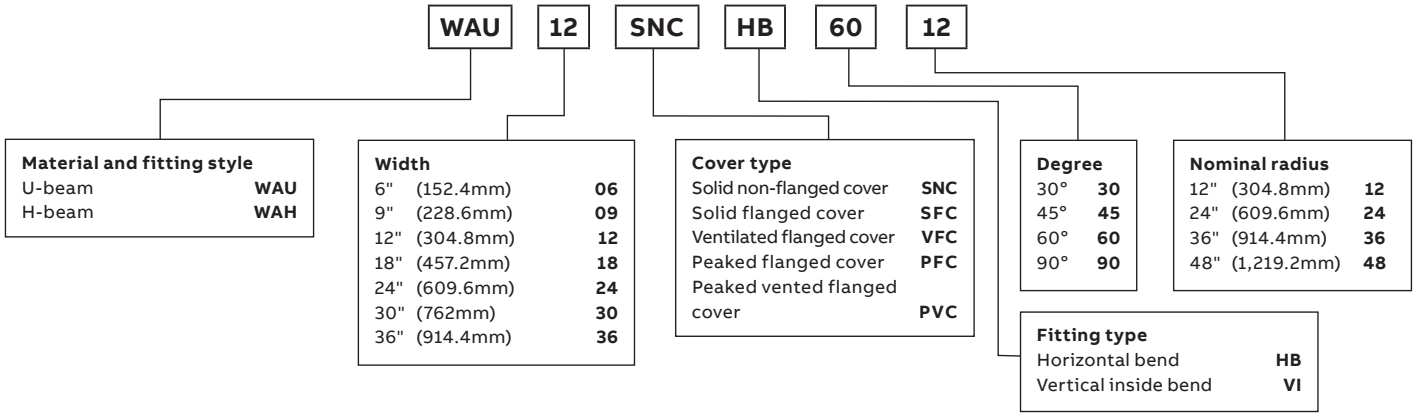
NOTE: Aluminium cable tray is composed of two distinct systems, H-style and U-style. These systems are interchangeable.



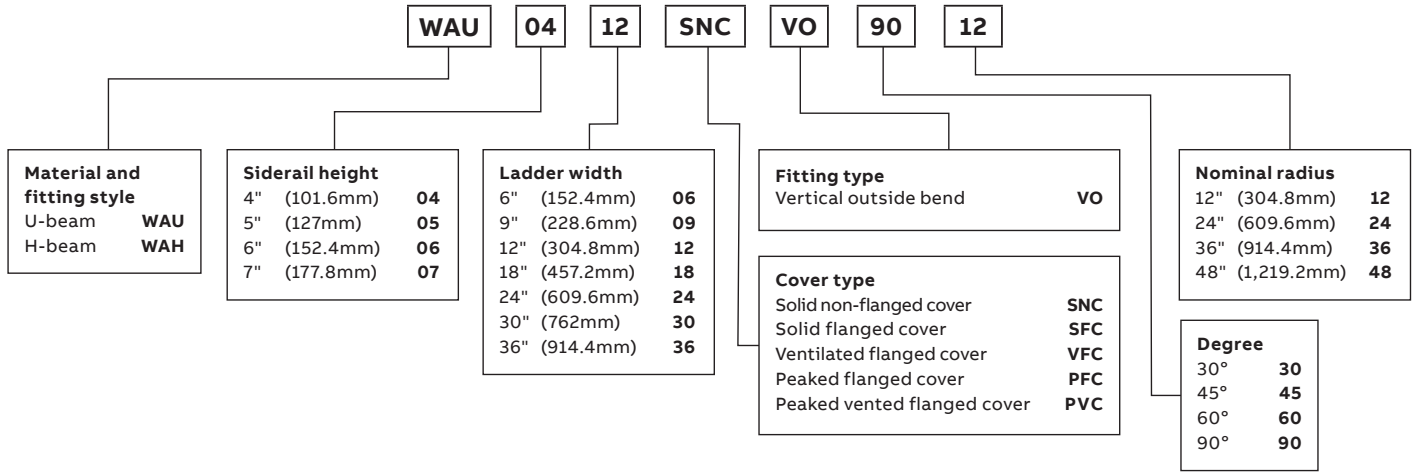
Aluminium covers

Fittings covers

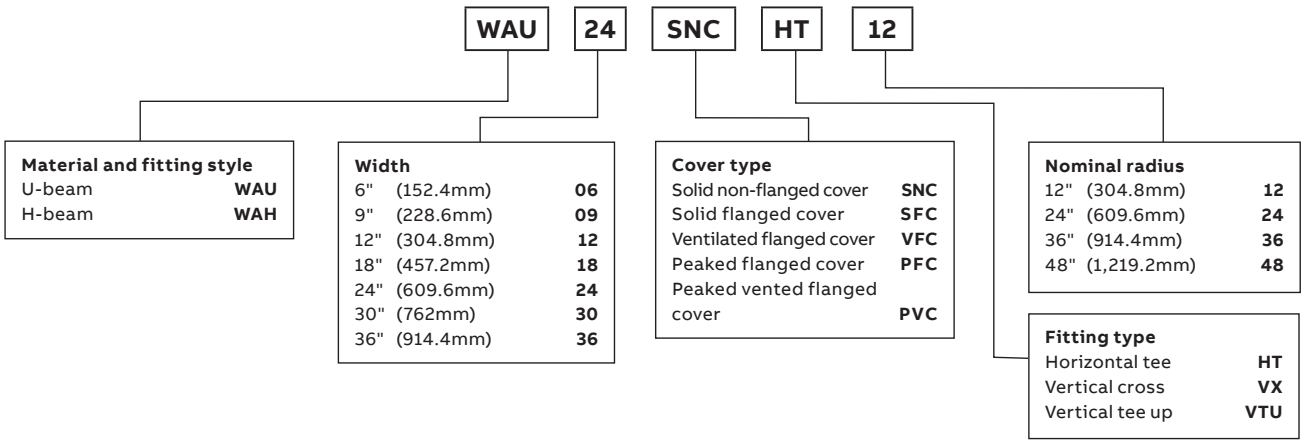
Fittings covers - horizontal bend/vertical inside bend - Number selection



Fittings covers - vertical outside bend - Number selection



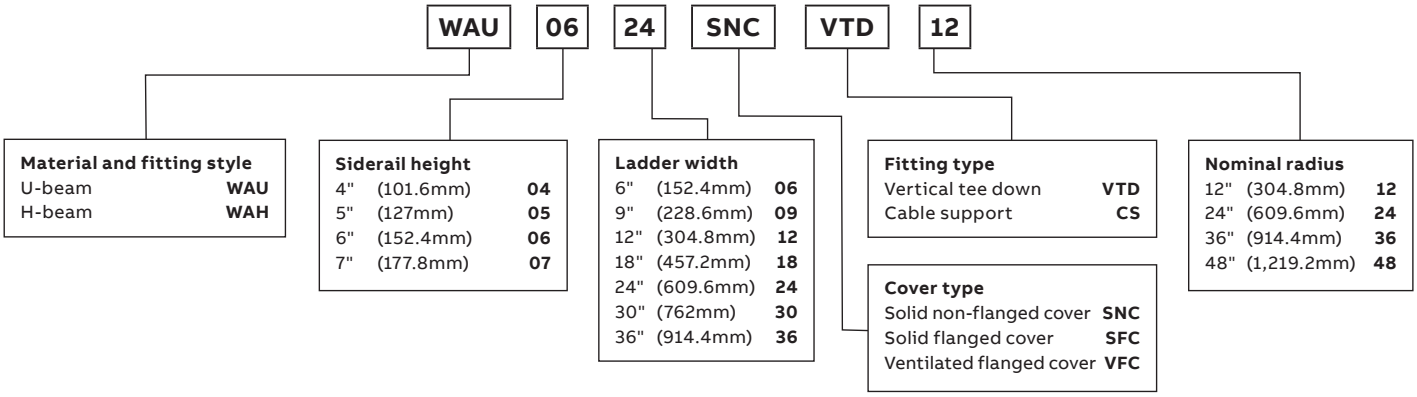
Fittings covers - horizontal tee & cross, vertical tee up - Number selection



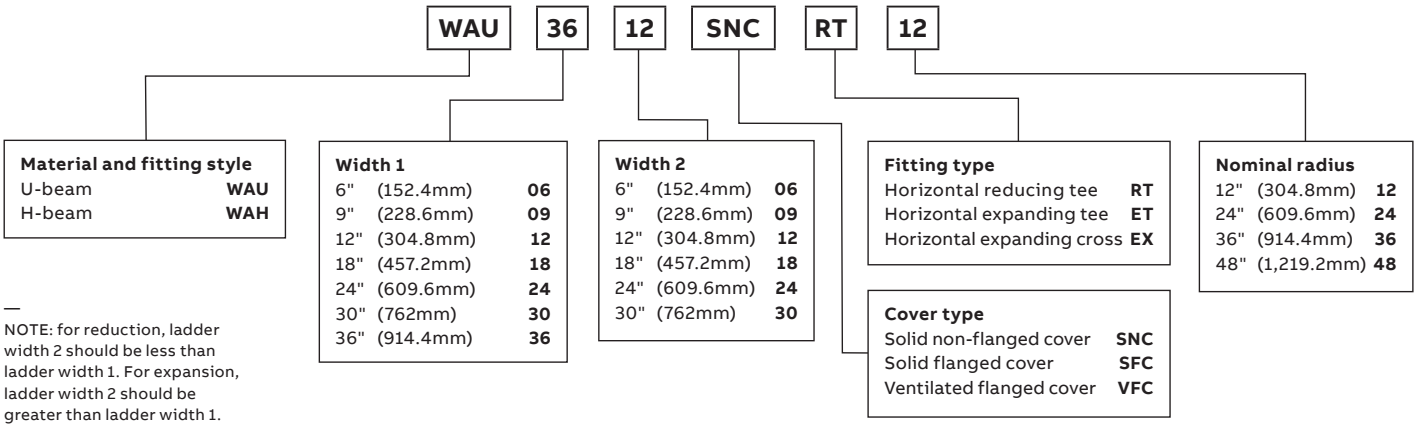
Aluminium covers

Fittings covers

Fittings covers - vertical tee down & cable support - Number selection

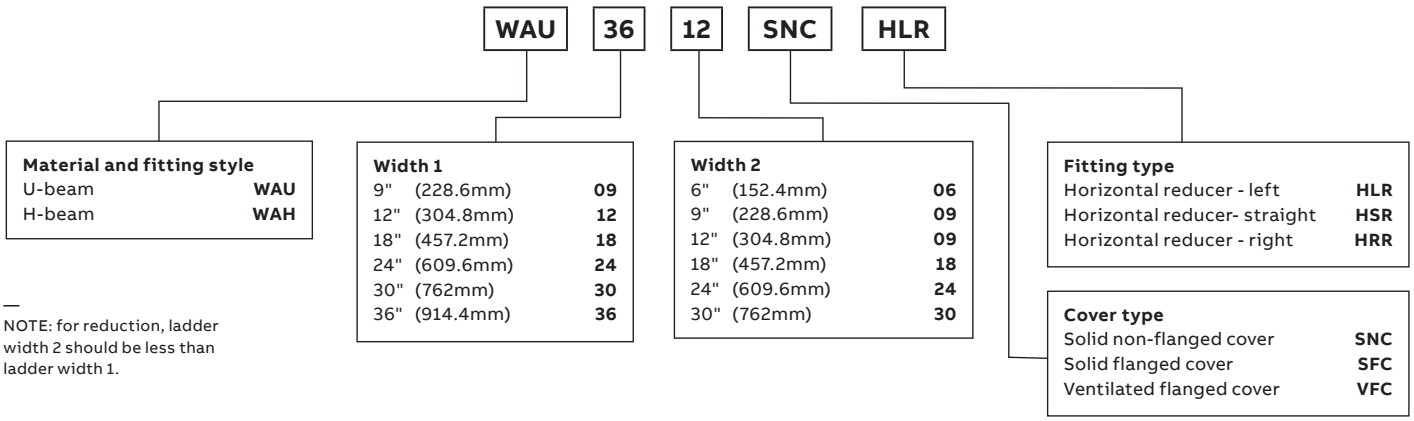


Fittings covers - horizontal reducing tee, horizontal expanding tee & cross - Number selection



NOTE: for reduction, ladder width 2 should be less than ladder width 1. For expansion, ladder width 2 should be greater than ladder width 1.

Fittings covers - horizontal reducer - Number selection

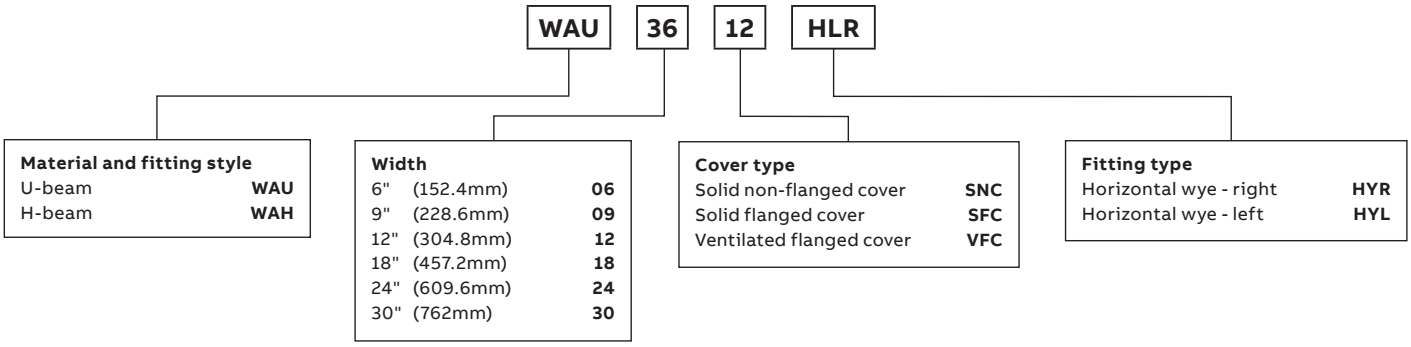


NOTE: for reduction, ladder width 2 should be less than ladder width 1.

Aluminium covers

Fittings covers

Fittings covers - horizontal wye - Number selection



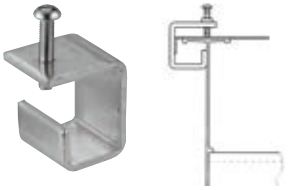
Aluminium covers

Accessories for covers

Quantity of standard cover clamps required			
Straight section 1.8m (6ft)	4 pcs.	Tees	6 pcs.
Straight section 3m (10ft) and 3.7m (12ft)	6 pcs.	Crosses	8 pcs.
Horizontal and vertical bends	4 pcs.		

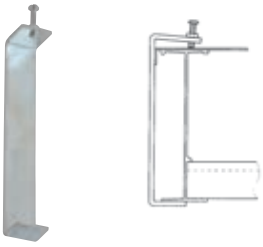
IMPORTANT NOTE: "B" in Cat. No. indicates this accessory can be used for both styles.
NOTE: When using heavy-duty cover clamp, only half the quantity of pieces are required.

Economical cover clamp

	Cat. No.	Material	Side rail height (in)	Side rail height (mm)
	WAB-SCC	Zinc-plated steel	All sizes	All sizes

Rigid indoor cover clamp for flat and flanged covers.
Cannot be used with U-style fittings.

Cover clamp

	Cat. No.	Material	Side rail height (in)	Side rail height (mm)
	WAB(*)FCC	Zinc-plated steel	4	101.6
			5	127
			6	152.4
			7	177.8

Rigid indoor cover clamp for flat and flanged covers.
(*) Insert side rail height.

Heavy-duty cover clamp

	Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
	WAB4(*)HCC	Aluminium	4	101.6	6	152.4
	WAB5(*)HCC		5	127	9	228.6
	WAB6(*)HCC		6	152.4	12	304.8
	WAB7(*)HCC		7	177.8	18	457.2
					24	609.6
					30	762
					36	914.4

Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.
(*) Insert tray width.

Aluminium covers

Accessories for covers

Extreme heavy-duty cover clamp

Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
WAB4(*)ECC	Aluminium	4	101.6	6	152.4
WAB5(*)ECC		5	127	9	228.6
WAB6(*)ECC		6	152.4	12	304.8
WAB7(*)ECC		7	177.8	18	457.2
				24	609.6
				30	762
				36	914.4

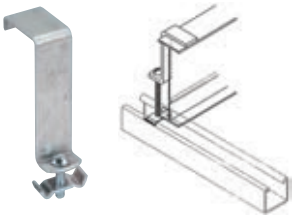
Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included.
(*) Insert tray width.

Heavy-duty peaked cover clamp

Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
WAB4(*)HPC	Aluminium	4	101.6	6	101.6
WAB5(*)HPC		5	127	9	127
WAB6(*)HPC		6	152.4	12	152.4
WAB7(*)HPC		7	177.8	18	457.2
				24	609.6
				30	762
				36	914.4

Wraparound design formed to fit peaked cover for outdoor applications. Hardware included.
(*) Insert tray width.

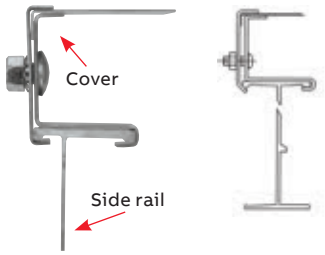
Combination hold down cover clamp



Cat. No.	Material	Side rail height (in)	Side rail height (mm)
WAB(*)CCC	Aluminium	4	101.6
		5	127
		6	152.4
		7	177.8

Designed to secure cable tray to support system.
NOTE: Hardware included (*) Insert side rail height.

Raised cover clamp

	Cat. No.	Material	Cover series	Cover offset (in)*	Cover offset (mm)*
	WAB1(*)RCC	Aluminium	1	1	25.4
	WAB2(*)RCC		2	2	50.8
	WAB3(*)RCC		3	3	76.2

* Cover offset. NOTE: For straight section and PFC and SFC covers only.
Designed to raise cover above tray for added ventilation.

Banding clips and banding tools

All covers may be secured with banding strap. Stainless steel banding strap is available with banding clips. Banding is 0.020" X 1/2" wide type 304 or 316 stainless steel strips. Clips are used to secure banding, only a piece of wood and a pair of pliers are required to tighten and fasten in place, although a special banding tool is used when a considerable amount of banding is to be done or when uniform tensioning of the banding is desirable. This tool has a built in cut-off and extremely short(6") handles with aluminium knobs for use in tight quarters. The 36-tooth ratchet creates high tensioning power.

Peaked end cap

	Cat. No.	Material	Tray width (in)*	Tray width (mm)*
	WAB(*)PEC	Aluminium	6	152.4
			9	228.6
			12	304.8
			18	457.2
			24	609.6
			30	762
			36	914.4

* Insert tray width. Used for transition between peaked covers to straight covers.

Cover joint strip

	Cat. No.	Material	Tray width (in)*	Tray width (mm)*
	WAB(*)SCS	Aluminium	6	152.4
			9	228.6
			12	304.8
			18	457.2
			24	609.6
			30	762
			36	914.4

Aluminium splice plates

Snap-in and expansion plates

Snap-in splice plate

- Designed to lock into place for easy alignment and installation
- Packaged in pairs with zinc-plated hardware
- Kit contents: 8 bolts, 8 nuts, 8 washers, ⅜" diametre
- Provided as standard with each straight and fitting

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
WAB-4-SSP	Aluminium	4	101.6
WAB-5-SSP		5	127
WAB-6-SSP		6	152.4
WAB-7-SSP		7	177.8

Snap-in expansion splice plate

- Allows for a 1" (25.4mm) expansion or contraction of tray system
- Packaged in pairs with zinc-plated hardware
- Kit contents: 8 bolts, 4 nuts, 4 stop nuts, ⅜" diametre

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
WAB-4-SSP	Aluminium	4	101.6
WAB-5-SSP		5	127
WAB-6-SSP		6	152.4
WAB-7-SSP		7	177.8

Aluminium splice plates

Flexible coupler and vertical adjustable plate

The flexible coupler provides easy installation without cutting cable tray side rails. Once installed, the bendable plate allows for electrical continuity, therefore eliminating the requirement for a bonding jumper.

Flexible coupler

Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
WAB-(*)06HAP	Aluminium	4 to 7	101.6 to 177.8	6	152.4
WAB-(*)09HAP				9	228.6
WAB-(*)12HAP				12	304.8
WAB-(*)18HAP				18	457.2
WAB-(*)24HAP				24	609.6
WAB-(*)30HAP				30	762
WAB-(*)36HAP				36	914.4

* Insert side rail height

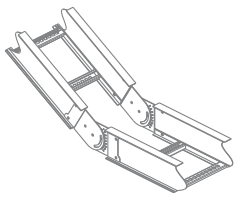
Optional rung information for flexible coupler

Cat. No.	Material	Tray width (in)	Tray width (mm)
WAB-R(*)HAP	Aluminium	06	152.4
		09	228.6
		12	304.8
		18	457.2
		24	609.6
		30	762
		36	914.4

* Insert tray width

- Hinged vertical plates provide maximum flexibility for changes in elevation
- Furnished in pairs with hardware
- Kit contents: 10 carriage bolts, 2 cap screws, 12 serrated flange nuts, ⅜" diameter

Vertical adjustable plate



Cat. No.	Material	Side rail height (in)	Tray width (mm)
WAB-4-VSP	Aluminium	4	101.6
WAB-5-VSP		5	127
WAB-6-VSP		6	152.4
WAB-7-VSP		7	177.8

Aluminium splice plates

Branch pivot connectors, box-to-tray plates and closure end plate

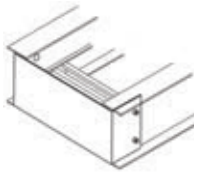
Box-to-tray plates

- Designed to secure tray to electrical panels or boxes, walls or end supports
- Furnished in pairs with hardware
- Kit contents: 8 bolts, 8 nuts, 8 lock washers, ⅜" diametre

Cat. No.	Material	Side rail height (in)	Side rail height (mm)
WAB-4-BSP	Aluminium	4	101.6
WAB-5-BSP		5	127
WAB-6-BSP		6	152.4
WAB-7-BSP		7	177.8

Closure end plate

- Provides closure for any tray end
- Packaged with hardware
- Kit contents: 4 bolts, 4 nuts, 4 washers, ⅜" diametre



Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
WAB-4(*)-CEP	Aluminium	4	101.6	6	152.4
				9	228.6
WAB-5(*)-CEP		5	127	12	304.8
				18	457.2
WAB-6(*)-CEP		6	152.4	24	609.6
				30	762
WAB-7(*)-CEP		7	177.8	36	914.4
				42	1,066.8

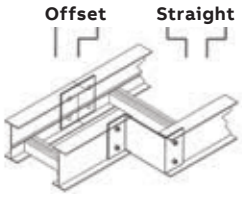
* Insert tray width

Aluminium splice plates

Reducing splice plate and step-down splice plate

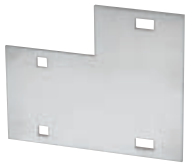
- Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction
- Packaged with hardware
- Kit contents: 4 bolts, 4 nuts, 4 washers, ⅜" diametre

Reducing splice plate



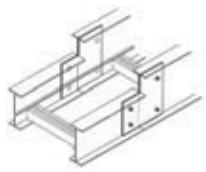
Cat. No.	Material	Side rail height (in)	Side rail height (mm)
WAB-4(*)-RSP	Aluminium	4	101.6
WAB-5(*)-RSP		5	127
WAB-6(*)-RSP		6	152.4
WAB-7(*)-RSP		7	177.8

NOTE: (*) For offset reduction: insert width to be reduced. For straight reduction: insert ½ width to be reduced (two required).
Example: BAW-403-RSP = 3" (76.2mm) offset reducer.



- Connects side rails of different heights
- Kit contents: 4 bolts, 4 nuts, 4 washers, ⅜" diametre

Step-down splice plate



Cat. No.	Material	Side rail height 1 (in)	Side rail height 1 (mm)	Side rail height 2 (in)	Side rail height 2 (mm)
WAB(*)(**)SDS	Aluminium	4	101.6	3	76.2
		5	127	4	101.6
		6	152.4	5	127
		7	177.8	6	152.4

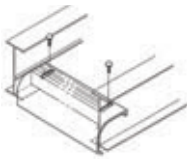
(*) Side rail height 1. (**) Side rail height 2.
NOTE: Side rail height 1 is greater then side rail height 2.

Aluminium cable protection

Drop out and wall penetration sleeve

- Designed to provide a smooth radius surface at any position on the tray or trough bottom
- Drop outs are easily attached using hardware provided
- Standard radius 4" (101.6mm)

Drop out



Cat. No.	Description	Tray width (in)	Tray width (mm)
WAB(*)DO	For ladder and ventilated tray Aluminium	6	152.4
		9	228.6
		12	304.8
		18	457.2
		24	609.6
		30	127
		36	914.4
		42	1,006.8

(*) Insert side rail height.

- Designed to pass through walls and fire walls
- Hardware included
- IMPORTANT: Not fire rated
- Fire stop not included
- Sold with cover

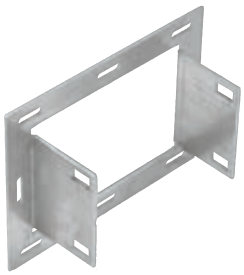
Wall penetration sleeve

Cat. No.	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
WAB(*)(**)WPS	Aluminium	4	101.6	6	152.4
				9	228.6
		5	127	12	304.8
				18	457.2
		6	152.4	24	609.6
				30	127
		7	177.8	36	914.4

(*) Insert side rail height. (**) Insert tray width.

Aluminium cable protection

Frame-type tray and barrier strip splice



- Designed to secure tray to electrical enclosures and panels
- Hardware included

Frame-type tray to box plate

Cat. No	Material	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
WAB(*)(**)FBP	Aluminium	4	101.6	6	152.4
				9	228.6
		5	127	12	304.8
				18	457.2
		6	152.4	24	609.6
				30	762
		7	177.8	36	914.4
				42	1,066.8

(*) Insert side rail height. (**) Insert tray width.

Barrier strip splice

	Cat. No.	Material
	WAB-BSS	Plastic

NOTE: Alignment splice for joining connecting barrier strips.

Aluminium barrier strips

Barrier strips, vertical bend barriers and strip splice

SBH

SB

- Aluminium barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware.
- 72" (1,83m) barriers are flexible for use with horizontal fittings

Barrier strips

Cat. No.	Designed for side rail height (in)	Designed for side rail height (mm)	Length (in)	Length (m)
WAB-4-SBH-72	4	101.6	72	1.83
WAB-5-SBH-72	5	127		
WAB-6-SBH-72	6	152.4		
WAB-7-SBH-72	7	177.8		
WAB-4-SB-(*)	4	101.6	144	3.65
WAB-5-SB-(*)	5	127		
WAB-6-SB-(*)	6	152.5		
WAB-7-SB-(*)	7	177.8		

NOTE: 72" (1.83m) barriers provided with 3 WSP10SCR. 144" (3.65m) barriers provided with 6 WSP10SCR.
(*) Insert length.

Inside/outside vertical bend barriers

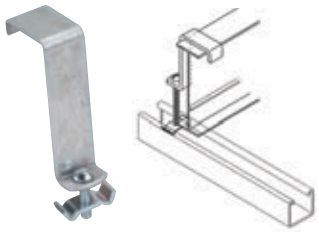
Inside bend Cat. No.	Outside bend Cat. No.	Designed for side rail height (in)	Designed for side rail height (mm)
WAB(*)VIB-(**)-(+)	WAB(*)VOB-(**)-(+)	4	101.6
WAB(*)VIB-(**)-(+)	WAB(*)VOB-(**)-(+)	5	127
WAB(*)VIB-(**)-(+)	WAB(*)VOB-(**)-(+)	6	152.4
WAB(*)VIB-(**)-(+)	WAB(*)VOB-(**)-(+)	7	177.8
WAB(*)VIB-(**)-(+)	WAB(*)VOB-(**)-(+)	4	101.6
WAB(*)VIB-(**)-(+)	WAB(*)VOB-(**)-(+)	5	127
WAB(*)VIB-(**)-(+)	WAB(*)VOB-(**)-(+)	6	152.4
WAB(*)VIB-(**)-(+)	WAB(*)VOB-(**)-(+)	7	177.8

(*) Insert side rail height (**) Insert bend angle (+) Insert bend radius.

Aluminium clamps and hardware

Hold down clamp, combination clamp, swivel clamp and vertical tray hanger

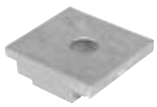
Hold-down clamp



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
WAB-4-HDC	Aluminium	4	101.6
WAB-5-HDC		5	127
WAB-6-HDC		6	152.4
WAB-7-HDC		7	177.8

NOTE: Hardware included. Kit contains one bolt and one spring nut.

Combination hold-down/expansion guide clamp



Cat. No.	Material
WAB-HEC	Aluminium

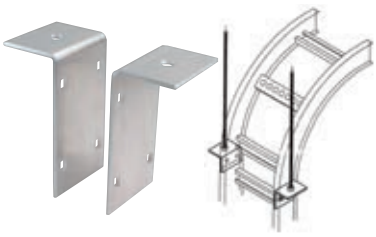
NOTE: Hardware supplied with one bolt and one springless strut nut, 0.95mm diametre.

Conduit to cable ladder swivel clamp

Cat. No.	Conduit size (in)	Conduit size (mm)
M6209	1/2" - 3/4"	12.7 - 19.05
M6211	1" - 1 1/4"	25.4 - 31.75
M6214	1 1/2" - 2"	38.1 - 50.8
M6216	2 1/2" - 3"	63.5 - 76.2
M6218	3 1/2" - 4"	88.9 - 101.6

Swivel clamp for aluminium and steel cable ladder with regular or reinforced flanges. Material: zinc plated malleable iron hub, with steel U-bolt included.
Serrations and biting teeth on clamping saddle provide a high quality bond between conduit and clamp 1/2" to 4" can be clamped to any position in a 90° arc.

Vertical tray hanger



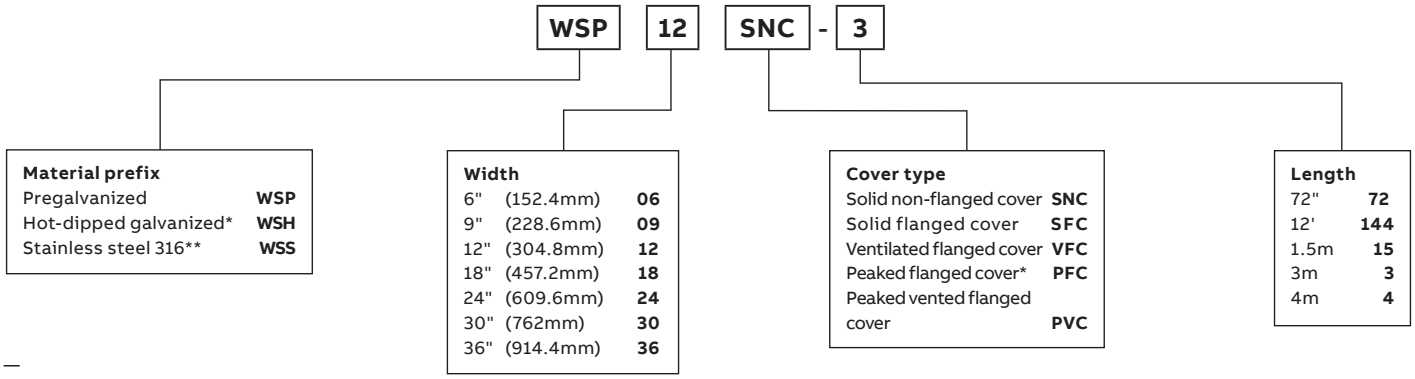
Cat. No.	Material	Side rail height (in)	Side rail height (mm)
WAB(*)VTH	Aluminium	4	101.6
		5	127
		6	152.4
		7	177.8

* Insert side rail height

Steel

Straight & fitting covers

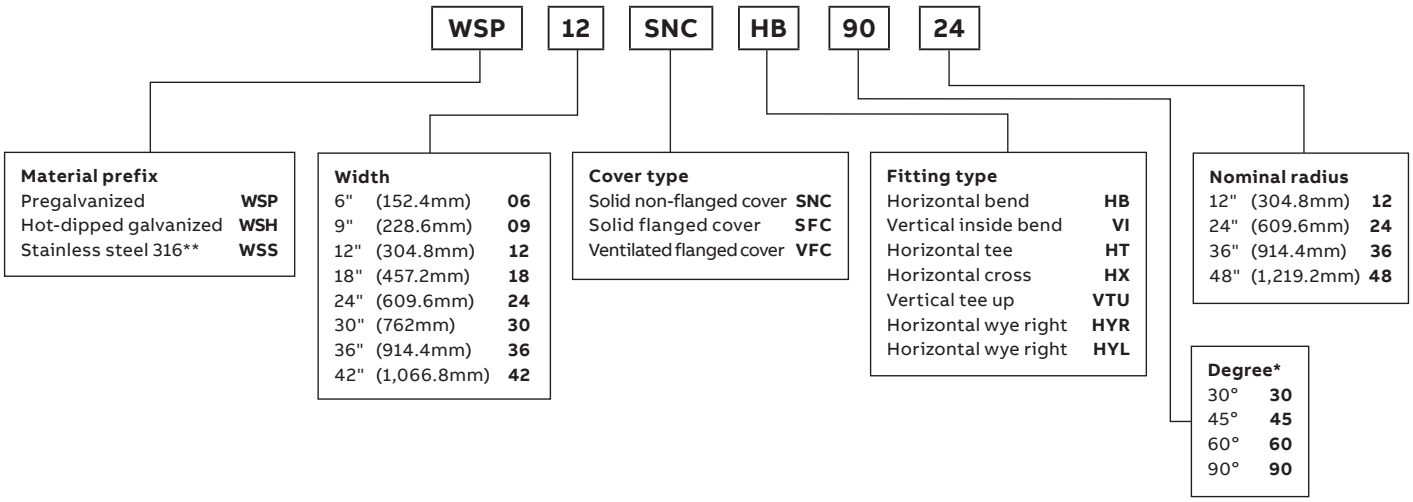
Straight covers - Number selection



* Hot-dipped covers only available in 72" and 1500mm lengths. Other materials available in 72", 12 ft & 3 m lengths only.

** Stainless steel 304 is available to special order.

Fitting covers - Number selection

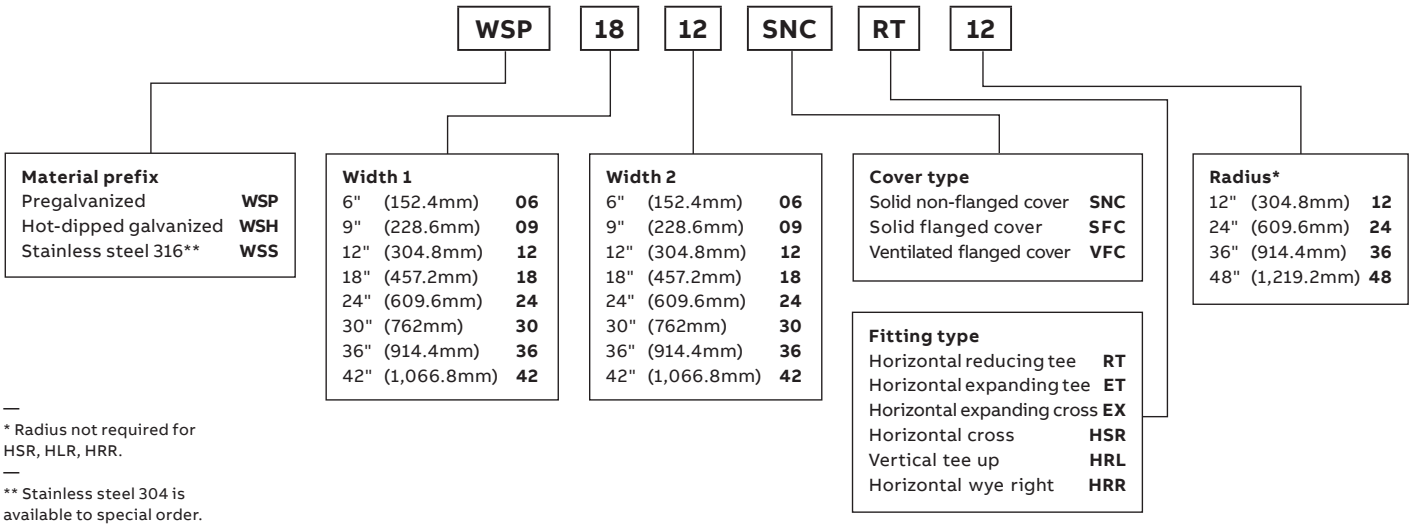


* Required for HB and VI only.

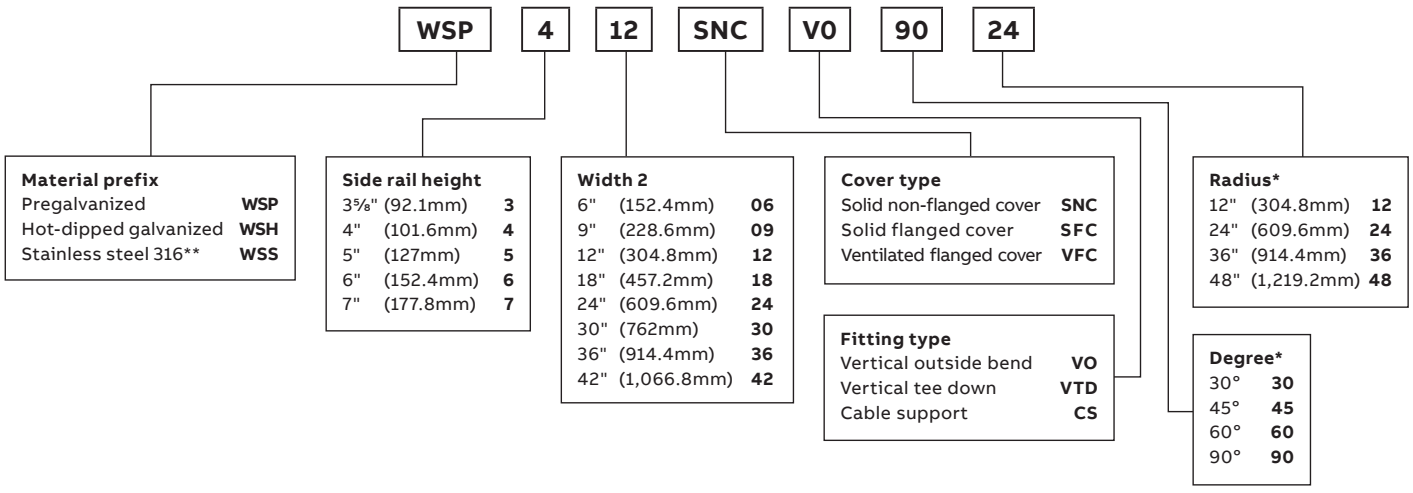
** Stainless steel 304 is available to special order.

Steel
Fitting covers

Fitting covers - Number selection



—
* Radius not required for HSR, HLR, HRR.
—
** Stainless steel 304 is available to special order.

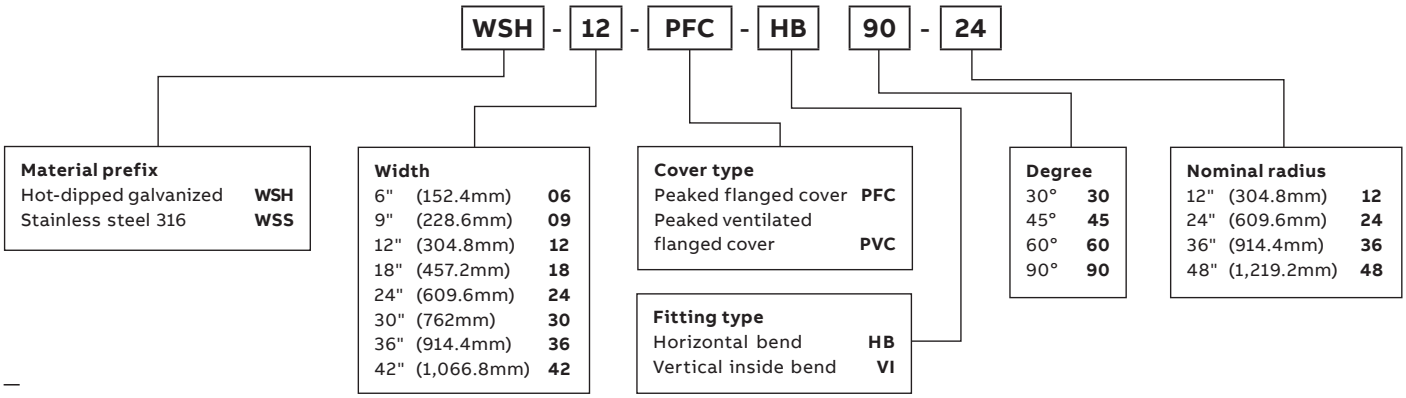


—
* Required for VO only.
—
** Stainless steel 304 is available to special order.

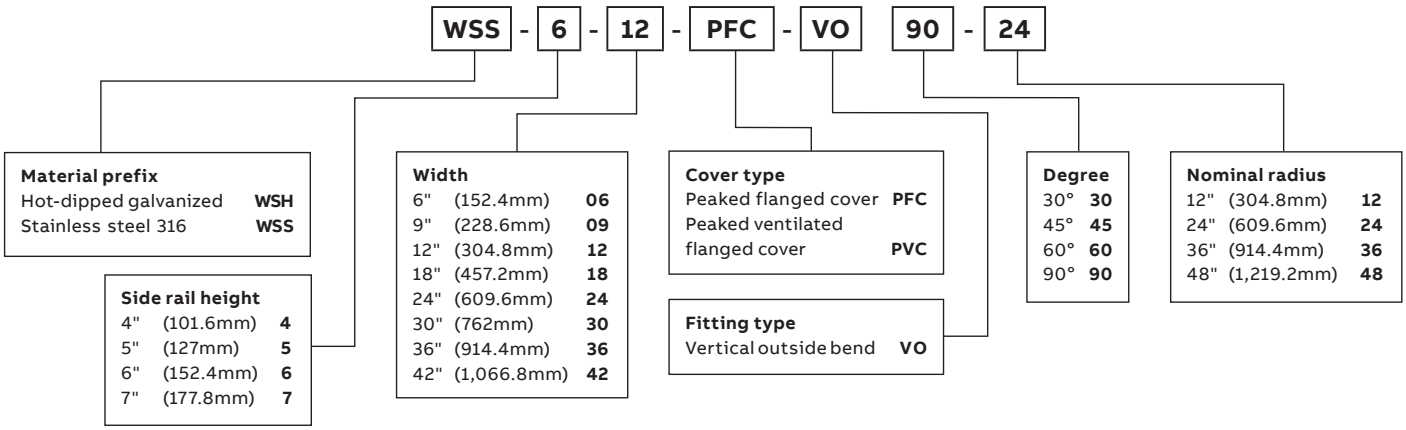
Steel

Peaked covers

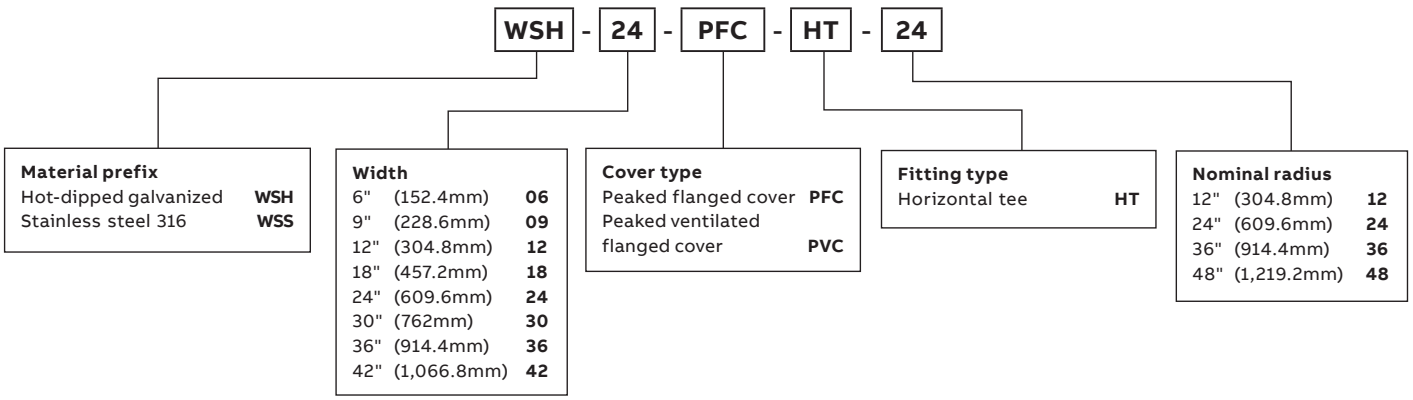
Peaked covers - Number selection



NOTE: Pregalvanized not available.



NOTE: Pregalvanized not available.



NOTE: Pregalvanized not available.

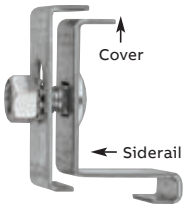
Steel

Accessories for covers

Quantity of standard cover clamps required			
Straight section 1.8m (6ft)	4 pcs.	Tees	6 pcs.
Straight section 3m (10ft) and 3.7m (12ft)	6 pcs.	Crosses	8 pcs.
Horizontal and vertical bends	4 pcs.		

NOTE: When using heavy-duty cover clamp, only half the quantity of pieces are required.

Raised cover clamp



Cat. No.	Material prefix	Cover offset (in)	Cover offset (mm)
WSP(+)RCC	WSP – Pregalvanized	1	25.4
		2	50.8
		3	76.2
WSS(+)RCC	WSS – Stainless steel 316	1	25.4
		2	50.8
		3	76.2

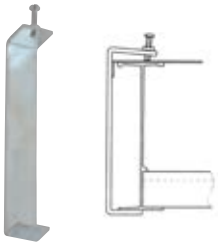
Designed to raise cover above tray for added ventilation. Stainless steel 304 is available to special order.
(*) Insert cover offset.

Peaked end cap

Cat. No.	Material prefix	Width (in)*	Width (mm)*
WSP(*)PEC	WSP – Pregalvanized	6	152.4
WSH(*)PEC	WSH – Hot-dipped galvanized	9	228.6
WSS(*)PEC	WSS – Stainless steel 316	12	304.8
		18	457.2
		24	609.6
		30	762
		36	914.4

Used for transition between peaked covers to straight covers. Stainless steel 304 is available to special order.
(*) Insert tray width.

Cover clamp



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-3-SCC	WSP – Pregalvanized	3	76.2
(Prefix)-4-SCC	WSH – Hot-dipped galvanized	4	101.6
(Prefix)-5-SCC	WSS – Stainless steel 316	5	127
(Prefix)-6-SCC		6	152.4
(Prefix)-7-SCC		7	177.8

Rigid indoor cover clamp for flat and flanged covers. Stainless steel 304 is available to special order.

Steel

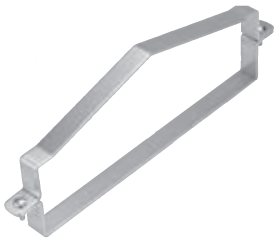
Accessories for covers

Heavy-duty cover clamp

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-3-(*)-HCC	WSP – Pregalvanized	3	76.2	4	101.6
(Prefix)-4-(*)-HCC	WSH – Hot-dipped galvanized	4	101.6	9	127
(Prefix)-5-(*)-HCC	WSS – Stainless steel 316	5	127	12	152.4
(Prefix)-6-(*)-HCC		6	152.4	18	457.2
(Prefix)-7-(*)-HCC		7	177.8	24	609.6
				30	762
				36	914.4

Wraparound design offers added protection for rugged applications and outdoor conditions. Hardware included. Stainless steel 304 is available to special order.
(*) Insert tray width.

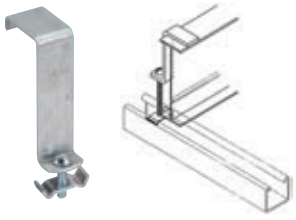
Heavy-duty peaked cover clamp



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-3(*)ECC	WSP – Pregalvanized	3	76.2	4	101.6
(Prefix)-4(*)ECC	WSH – Hot-dipped galvanized	4	101.6	9	127
(Prefix)-5(*)ECC	WSS – Stainless steel 316	5	127	12	152.4
(Prefix)-6(*)ECC		6	152.4	18	457.2
(Prefix)-7(*)ECC		7	177.8	24	609.6
				30	762
				36	914.4

Wraparound design formed to fit peaked cover for outdoor applications. Hardware included. Stainless steel 304 is available to special order.
(*) Insert tray width.

Combination hold down cover clamp



Cat. No.	Material	Side rail height (in)	Side rail height (mm)
(Prefix)-4-CCC	WSH – Hot-dipped galvanized	4	101.6
(Prefix)-5-CCC	WSS – Stainless steel 316	5	127
(Prefix)-6-CCC		6	152.4
(Prefix)-7-CCC		7	177.8

Designed to secure cable tray to support system.
NOTE: Hardware included (*) Insert side rail height.

Steel splice plates

Splice, expansion and transition plates

Splice plate

- Packaged in pairs with zinc-plated hardware
- Kit contents: 4 bolts, 4 nuts, 4 washers, ⅜" diametre
- Provided as standard with each straight and/or fitting

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-3-SSP	WSP – Pregalvanized	3	76.2
(Prefix)-4-SSP	WSH – Hot-dipped galvanized	4	101.6
(Prefix)-5-SSP	WSS – Stainless steel 316	5	127
(Prefix)-6-SSP		6	152.4
(Prefix)-7-SSP		7	177.8

Stainless steel 304 is available to special order.

Expansion splice plate

- Allows for a 1" (25.5mm) expansion or contraction of tray system
- Packaged in pairs with hardware
- Kit contents: 8 bolts, 8 stop nuts, 4 serrated flange nuts, ⅜" diametre

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-3-ESP	WSP – Pregalvanized	3	76.2
(Prefix)-4-ESP	WSH – Hot-dipped galvanized	4	101.6
(Prefix)-5-ESP	WSS – Stainless steel 316	5	127
(Prefix)-6-ESP		6	152.4
(Prefix)-7-ESP		7	177.8

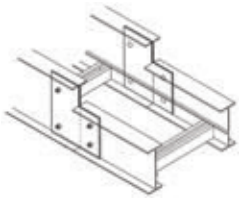
Stainless steel 304 is available to special order.

Steel splice plates

Step-down splice plate & flexible coupler

- Connects side rails of different heights
- Hardware included
- Kit contents: 8 bolts, 8 nuts, 8 washers, ⅜" diametre

Step-down splice plate



Cat. No.	Material prefix	Side rail height 1 (in)	Side rail height 1 (mm)	Side rail height 2 (in)	Side rail height 2 (mm)
(Prefix)-(*)-(**)-SDS	WSP – Pregalvanized	4	101.6	3	76.2
	WSH – Hot-dipped galvanized	5	127	4	101.6
	WSS – Stainless steel 316	6	152.4	5	127
		7	177.8	6	152.4

(*) Side rail height 1. (**) Side rail height 2.
NOTE: Side rail height 1 is greater then side rail height 2.
Stainless steel 304 is available to special order.

The flexible coupler provides easy installation without cutting cable tray side rails. Once installed, the bendable plate allows for electrical continuity, therefore eliminating the requirement for a bonding jumper.

Flexible coupler

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-(*)06HAP	WSP	3	76.2	6	152.4
(Prefix)-(*)09HAP	WSH	4	101.6	9	228.6
(Prefix)-(*)12HAP	WSS	5	127	12	304.8
(Prefix)-(*)18HAP		6	152.4	18	457.2
(Prefix)-(*)24HAP		7	177.8	24	609.6
(Prefix)-(*)30HAP				30	762
(Prefix)-(*)36HAP				36	914.4

* Insert side rail height
Stainless steel 304 is available to special order.

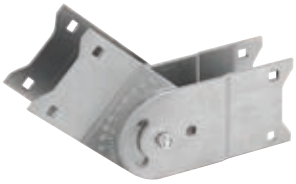
Optional rung information for flexible coupler

Cat. No.	Material prefix	Tray width (in)	Tray width (mm)
(Prefix)-R06HBP	WSP	06	152.4
(Prefix)-R09HBP	WSH	09	228.6
(Prefix)-R12HBP	WSS	12	304.8
(Prefix)-R18HBP		18	457.2
(Prefix)-R24HBP		24	609.6
(Prefix)-R30HBP		30	762
(Prefix)-R36HBP		36	914.4

* Insert tray width

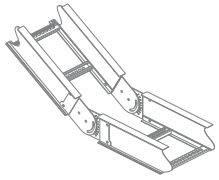
Steel splice plates

Vertical adjustable plates, branch pivot connectors and box to cable ladder plate



- Hinged vertical plates provide maximum flexibility for changes in elevation
- Packaged in pairs with hardware

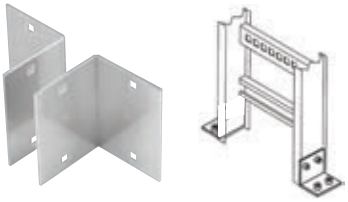
Vertical adjustable plate



Cat. No.	Material prefix	Side rail height (in)	Tray width (mm)
(Prefix)-3-VSP	WSP – Pregalvanized	3	76.2
(Prefix)-4-VSP	WSH – Hot-dipped galvanized	4	101.6
(Prefix)-5-VSP	WSS – Stainless steel 316	5	127
(Prefix)-6-VSP		6	152.4
(Prefix)-7-VSP		7	177.8

Stainless steel 304 is available to special order.

Box to cable ladder plate



Cat. No.	Material prefix	Side rail height (in)	Tray width (mm)
(Prefix)-3-BSP	WSP – Pregalvanized	3	76.2
(Prefix)-4-BSP	WSH – Hot-dipped galvanized	4	101.6
(Prefix)-5-BSP	WSS – Stainless steel 316	5	127
(Prefix)-6-BSP		6	152.4
(Prefix)-7-BSP		7	177.8

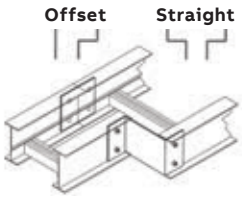
Designed to secure tray to electrical panels or boxes, walls or end supports. Packaged in pairs with hardware. Stainless steel 304 is available to special order.

Steel splice plates

Reducing splice and closure end plate

- Used in pairs to provide a straight reduction or used with a standard splice plate for an offset reduction
- One per package with hardware

Reducing splice plate



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-4(*)-RSP	WSP – Pregalvanized	4	101.6
(Prefix)-5(*)-RSP	WSH – Hot-dipped galvanized	5	127
(Prefix)-6(*)-RSP	WSS – Stainless steel 316	6	152.4
(Prefix)-7(*)-RSP		7	177.8

NOTE: (*) For offset reduction: insert width to be reduced. For straight reduction: insert 1/2 width to be reduced (two required).
Example: WSP-403-RSP = 3" (76.2mm) offset reducer.
Stainless steel 304 is available to special order.

Closure end plate

Cat. No.	Material prefix	Side rail height (in)	Tray width (mm)
(Prefix)-3-CEP	WSP – Pregalvanized	3	76.2
(Prefix)-4-CEP	WSH – Hot-dipped galvanized	4	101.6
(Prefix)-5-CEP	WSS – Stainless steel 316	5	127
(Prefix)-6-CEP		6	152.4
(Prefix)-7-CEP		7	177.8

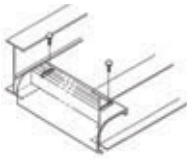
Provides closure for any tray end. Hardware included.
(*) Insert tray width.
Stainless steel 304 is available to special order.

Steel cable protection

Drop out and wall penetration sleeve

- Designed to provide a smooth radius surface at any position on the tray or trough bottom
- Drop outs are easily attached using hardware provided
- Standard radius 4" (101.6mm)

Drop out



Cat. No.	Material prefix	Tray width (in)	Tray width (mm)
(Prefix)-(*)-DO	WSP – Pregalvanized	6	152.4
(Prefix)-(*)-DOS +	WSH – Hot-dipped galvanized	9	228.6
	WSS – Stainless steel 316	12	304.8
		18	457.2
		24	609.6
		30	127
		36	914.4

(*) Insert side rail height.
DOS + = is for solid tray.
Stainless steel 304 is available to special order.

- Designed to pass through walls and fire walls
- Hardware included
- NOTE: Not fire rated
- Fire stop not included

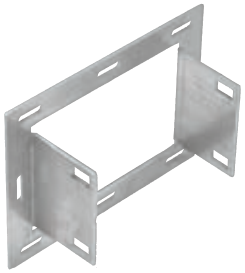
Wall penetration sleeve

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-(*)-(**)-WPS	WSP – Pregalvanized	3	76.2	6	152.4
	WSH – Hot-dipped galvanized	4	101.6	9	228.6
	WSS – Stainless steel 316	5	127	12	304.8
		6	152.4	18	457.2
		7	177.8	24	609.6
				30	127
				36	914.4

(*) Insert side rail height.
(**) Insert tray width.
Stainless steel 304 is available to special order.

Steel cable protection

Frame-type tray to box plate and expansion pad



Frame-type tray to box plate

- Designed to secure tray to electrical enclosures and panels
- Hardware included

Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)	Tray width (in)	Tray width (mm)
(Prefix)-(*)-(**)-FBP	WSP – Pregalvanized	3	76.2	6	152.4
	WSH – Hot-dipped galvanized	4	101.6	9	228.6
	WSS – Stainless steel 316	5	127	12	304.8
		6	152.4	18	457.2
		7	177.8	24	609.6
				30	127
				36	914.4

(*) Insert side rail height. (**) Insert tray width. Stainless steel 304 is available to special order.

Steel barrier strips

Barrier strips and vertical bend barriers

SBH

SB

- Barrier strips provide a method of separating cables in tray and trough systems
- Easily installed using supplied hardware or barrier strip clamps (sold separately)
- 72" (1,83m) barriers are flexible for use with horizontal fittings

Barrier strips

Cat. No.	Material prefix	Designed for side rail height (in)	Designed for side rail height (mm)	Length (in)	Length (m)
(Prefix)-3-SBH-72	WSP – Pregalvanized	3	76.2	72	1.83
(Prefix)-4-SBH-72	WSH – Hot-dipped galvanized	4	101.6		
(Prefix)-5-SBH-72	WSS – Stainless steel 316	5	127		
(Prefix)-6-SBH-72		6	152.4		
(Prefix)-7-SBH-72		7	177.8		
(Prefix)-3-SB-(*)	WSP – Pregalvanized	3	76.2	144	3.65
(Prefix)-4-SB-(*)	WSH – Hot-dipped galvanized	4	101.6		
(Prefix)-5-SB-(*)	WSS – Stainless steel 316	5	127		
(Prefix)-6-SB-(*)		6	152.4		
(Prefix)-7-SB-(*)		7	177.8		

NOTE: Barriers provided with self-drilling tapping screw Cat. No. WSP10SCR. 72" length: 3 screw; 3m length: 5 screw; 144" length: 6 screw. SHW barriers are only available in 72" or 1500mm.
(*) Insert length.
Stainless steel 304 is available to special order.

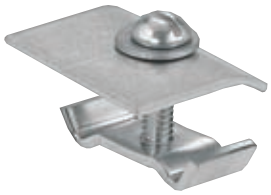
- Preformed to fit all standard steel vertical bends
- Provided with hardware

Inside/outside vertical bend barriers

Inside bend Cat. No.	Outside bend Cat. No.		Designed for side rail height (in)	Designed for side rail height (mm)
(Prefix)-3-VIB-(*)-(+)	(Prefix)-3-VOB-(*)-(+)	WSP – Pregalvanized	3	76.2
(Prefix)-4-VIB-(*)-(+)	(Prefix)-4-VOB-(*)-(+)	WSH – Hot-dipped galvanized	4	101.6
(Prefix)-5-VIB-(*)-(+)	(Prefix)-5-VOB-(*)-(+)	WSS – Stainless steel 316	5	127
(Prefix)-6-VIB-(*)-(+)	(Prefix)-6-VOB-(*)-(+)		6	152.4
(Prefix)-7-VIB-(*)-(+)	(Prefix)-7-VOB-(*)-(+)		7	177.8

Steel clamps and hardware

Barrier strip clamp and strip splice



- Barrier strip clamps mount barrier strips to ladder rungs and ventilated trough bottoms
- Complete mounting hardware supplied

Barrier strip clamp

	Cat. No.	Material prefix
	(Prefix)-BSC	WSP – Pregalvanized
		WSS – Stainless steel 316

Stainless steel 304 is available to special order.

Barrier strip splice

	Cat. No.	Material
	WAB-BSS	Plastic

Alignment splice for joining connecting barrier strips.

Steel clamps and hardware

Combination hold-down/expansion clamp and hold-down clamp

Combination hold-down/expansion clamp

HEC hold-down clamp orientation

HEC expansion clamp orientation

Cat. No.	Material prefix
(Prefix)-HEC*	WSP – Pregalvanized
	WSH – Hot-dipped galvanized
	WSS – Stainless steel 316
(Prefix)-HEC**	WSP – Pregalvanized
	WSH – Hot-dipped galvanized
	WSS – Stainless steel 316

(*) Order ⅜" hardware separately. (**) NOTE: HDW is supplied with one bolt and one spring nut, ¼" diametre.
Stainless steel 304 is available to special order.

Standard hold-down clamp

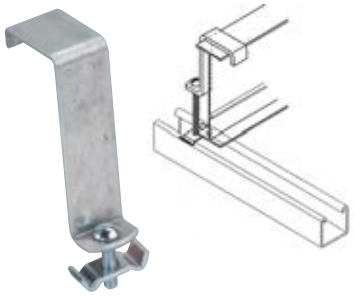
Cat. No.	Material
WSP-(*)-SHC	Zinc plated steel
WSS-(*)-SHC	Stainless steel 316
WSP-(*)-SCH-HDW	Zinc plated steel*
WSS-(*)-SHC-HDW	Stainless steel 316*

* Supplied with 1/4" hardware
Stainless steel 304 is available to special order.

Steel clamps and hardware

Hold down clamps and tapping screw

Hold-down clamp



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-3-HDC	WSP – Pregalvanized	3	76.2
(Prefix)-4-HDC	WSH – Hot-dipped galvanized	4	101.6
(Prefix)-5-HDC	WSS – Stainless steel 316	5	127
(Prefix)-6-HDC		6	152.4
(Prefix)-7-HDC		7	177.8

NOTE: Hardware included. Kit contains one bolt and one spring nut.

Conduit to cable ladder clamp

Cat. No.	Conduit size (in)	Conduit size (mm)
M6210	1/2” - 3/4”	12.7 - 19.05
M6212	1” - 1 1/4”	25.4 - 31.75

Standard finish: electro-galvanized steel

Conduit to cable ladder swivel clamp

Cat. No.	Conduit size (in)	Conduit size (mm)
M6209	1/2” - 3/4”	12.7 - 19.05
M6211	1” - 1 1/4”	25.4 - 31.75
M6214	1 1/2” - 2”	38.1 - 50.8
M6216	2 1/2” - 3”	63.5 - 76.2
M6218	3 1/2” - 4”	88.9 - 101.6

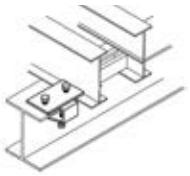
Swivel clamp for aluminium and steel cable ladder with regular or reinforced flanges.
Material: zinc plated malleable iron hub, with steel U-bolt included.
Serrations and biting teeth on clamping saddle provide a high quality bond between conduit and clamp 1/2” to 4” can be clamped to any position in a 90º arc

Steel clamps and hardware

Cable tray guide and vertical tray hanger

Cable tray guide

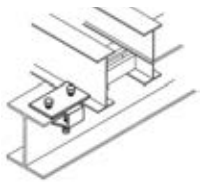
- Expansion guide for single or double runs of cable tray
- No need to field drill the channel or I-beam



Cat. No.	Material
WSP-CTG	Zinc-plated steel
WSH-CTG	Hot-dipped galvanized steel
WSS-CTG	Stainless steel

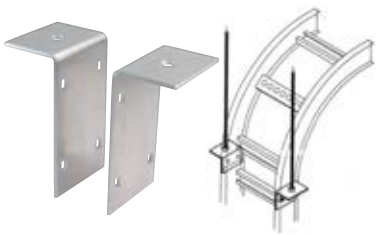
Cable tray guide

- Clamps for single run of cable tray
- No need to field drill the channel or I-beam



Cat. No.	Material
WSP-CTC	Zinc-plated steel
WSH-CTC	Hot-dipped galvanized steel
WSS-CTC	Stainless steel

Vertical tray hanger



Cat. No.	Material prefix	Side rail height (in)	Side rail height (mm)
(Prefix)-(*)-VTH	WSP – Pregalvanized	3	76.2
	WSH – Hot-dipped galvanized	4	101.6
	WSS – Stainless steel 316	5	127
		6	152.4
		7	177.8

* Insert side rail height

Metallic - Perforated tray
Overview

T&B perforated tray delivers the comprehensive, flexible solution for supporting cable.

—
01 H-style 90° horizontal bend
—
02 H-style horizontal tee
—
03 H-style 90° vertical outside bend

Our perforated tray is a durable and cost effective solution for supporting cable, which is easy to install, modify and maintain.

Suitable for a wide variety of industries and installations, our perforated tray offers the sure choice for high quality, high performance cable management.

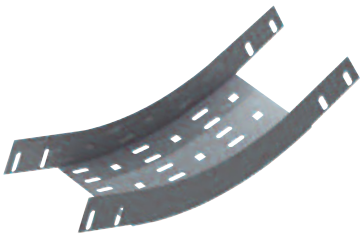
Extensive product range
Our perforated tray is available in aluminium or steel, from medium duty to ultra heavy duty, to cover all types of installation. Straight sections are complemented by an extensive selection of fittings, covers and accessories to permit specification of full perforated tray systems from a single source.

Enhanced safety
Our perforated tray offers enhanced safety with lower risk of exposure to live, energized parts. In a perforated tray system, cables can be pulled from near one termination enclosure to the next before being connected, rather than being pulled through conduit after the cable is terminated.

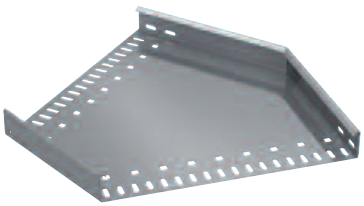
Increased adaptability
Businesses must remain flexible - to be able to expand facilities quickly, or introduce new processes or product lines as markets dictate. Our perforated tray offers a major advantage in being highly adaptable to meet new needs and technology, with no need to replace the system with each new development. Modifications or expansions are achieved quickly as cables can enter or exit the tray at any point, thus keeping business disruption and downtime to a minimum.

Reduced costs
Reliability and adaptability coupled with ease of maintenance result in perforated tray systems delivering many types of cost saving, including:
- Lower installation, engineering and maintenance costs
- Lower need to reconfigure the system as needs change
- Reduced downtime for electrical and data handling systems
- Fewer environmental problems resulting from loss of power to essential equipment

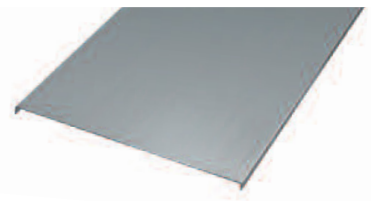
First class support
ABB combines global market leadership with local product & technical support, either through our network of distributors, or via ABB sales office in your country.



—
01



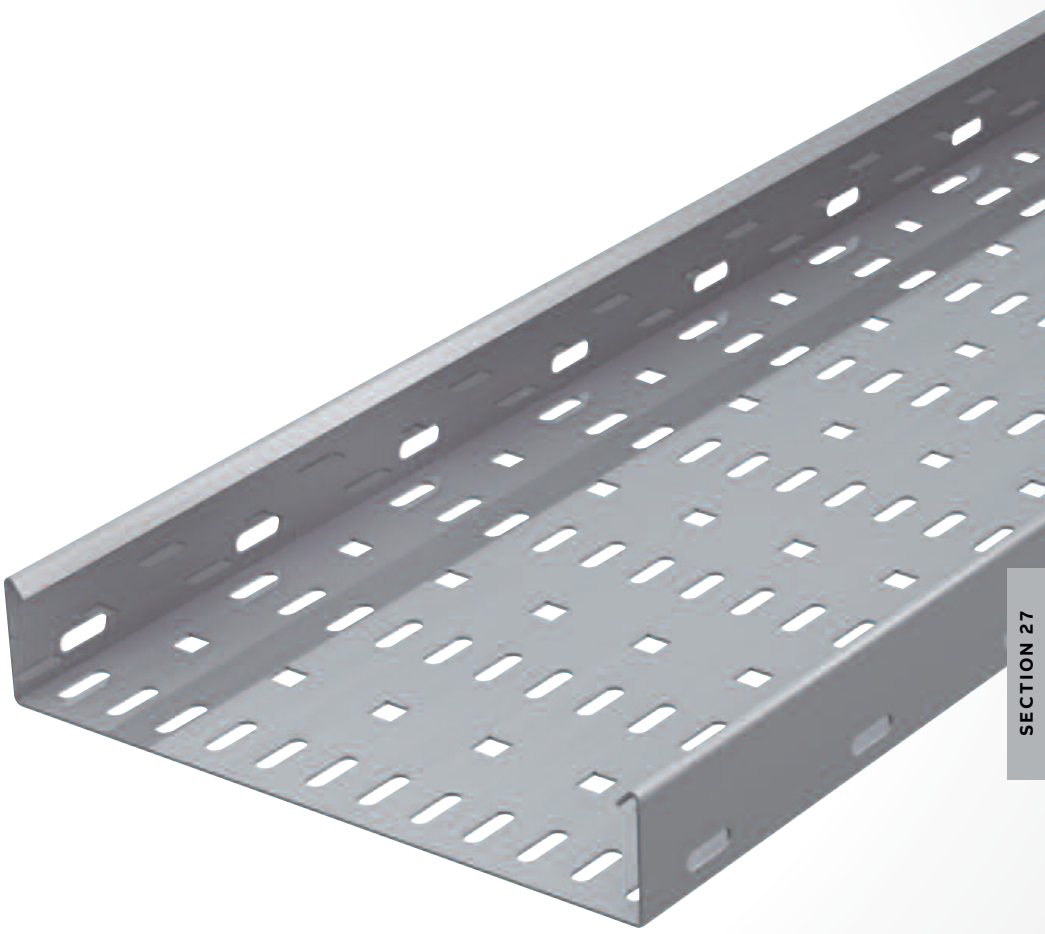
—
02

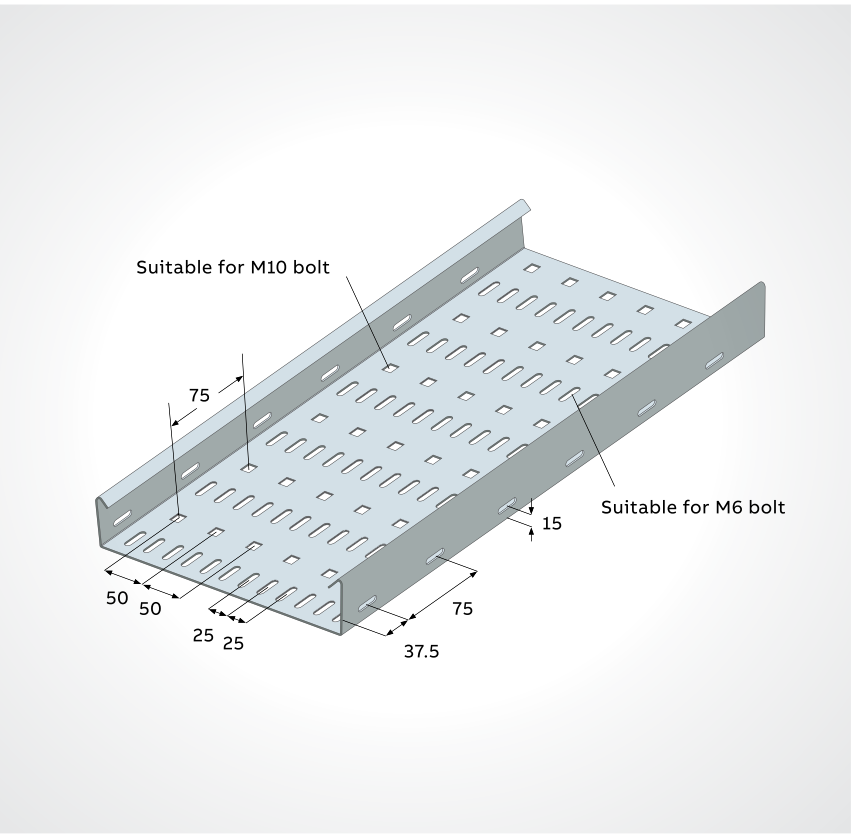


—
03

LOW MAINTENANCE

Cable ladder wiring systems have a lower maintenance demand than conduit systems. When maintenance is necessary, it proves easier, less labour intensive, and requires less time to complete.





—

Perforated tray is available in four material types for maximum versatility in installation.

Material types
Aluminium
Steel (pre-galvanized, hot dip galvanized and stainless steel grades 304 and 316)

Perforated tray has four duty types with differing siderail heights:
- 25 mm (medium duty)
- 50 mm (heavy duty)
- 75 mm (extra heavy duty) and
- 100 mm (ultra heavy duty).

This design permits specification across the widest possible range of projects with each duty type including the standard perforation pattern.

Aluminium (to 1050 H14)
Aluminium 1050 H14 alloy for lightweight construction, excellent corrosion resistance, and high strength-to-weight ratio. Aluminium cable tray offers simple installation and low maintenance.

Pre-galvanized steel (to BS EN 10142 & BS EN 10143)
Steel is ideal as a high strength, low cost material for cable tray. Pre-galvanized steel tray is produced by passing the low-carbon steel through molten zinc before fabrication, and is generally recommended for indoor commercial applications rather than outdoor or industrial environments.

Hot dip galvanized steel (to BS EN ISO 1461 or ASTM A123)
Hot dip galvanized steel tray is produced by immersing the fabricated tray in molten zinc, creating a much thicker coating than pre-galvanized. This process is recommended for most outdoor and harsh industrial applications.

Stainless steel (to AISI Type 316 or 304)
Stainless steel offers high strength and high resistance to chemicals, even at high ambient temperatures. T&B stainless steel cable tray is roll-formed from AISI Type 316 or 304 stainless steel.

Conforms to BSEN 61537:2006

Perforation pattern
The pattern used on perforated tray has been specifically designed to meet market expectations and to ensure all component parts can be quickly and easily coupled together, keeping installation time to a minimum.

Included in the pattern are burr free slots and squares for securing barrier strips, mounts and supports, and also for securing Ty-Rap® cable ties when bundling cable.

NOTE: cable tray edges and welds are rounded and smoothed during manufacture to prevent cable damage. Care should be taken when handling cable tray and protective gloves should be worn to avoid risk of injury.

Perforated tray
Straight section

Straight sections are available in aluminium, or steel in a range of finishes, and are supplied complete with standard coupler and tray hardware.

Features & benefits

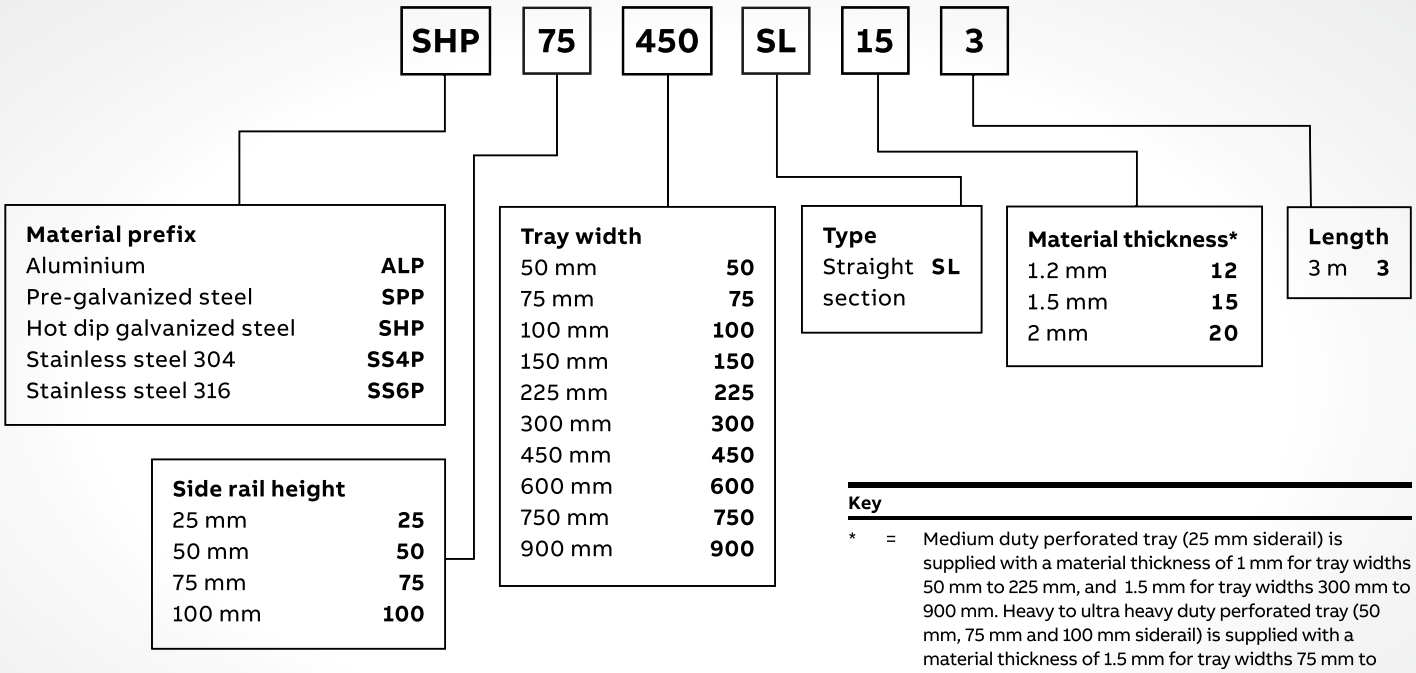
- High quality manufacturing delivers enhanced system rigidity
- Choice of aluminium, pre-galvanized, hot dip galvanized, or stainless (304 or 316) steel
- Siderails include return flange for increased strength, safety, enhanced aesthetics and customer appeal
- Siderail heights from 25 mm to 100 mm for medium to ultra heavy duty applications
- Extensive range of tray widths, from 50 mm to 900 mm
- Aluminium & hot dipped galvanized perforated cable tray's are UL certified to be used as an equipment grounding conductor

Product selection - straight section

Straight section part numbers are created using a range of selection criteria. Determine the most suitable perforated tray type based on the parameters shown, then use the table below to create the exact part number for your needs.

IMPORTANT NOTE: When specifying perforated tray, note that the tray width must always be greater than the siderail height. For example, medium duty tray with 25 mm siderail can have tray widths from 50 mm to 900 mm as per the table below, whereas for heavy duty tray with 50 mm siderail, tray width starts at 75 mm, and so on for extra heavy duty (75 mm siderail/minimum width 100 mm) and ultra heavy duty (100 mm siderail/minimum width 150 mm).

Select the preferred component parts and create the specific part number as per the example shown.



Key

* = Medium duty perforated tray (25 mm siderail) is supplied with a material thickness of 1 mm for tray widths 50 mm to 225 mm, and 1.5 mm for tray widths 300 mm to 900 mm. Heavy to ultra heavy duty perforated tray (50 mm, 75 mm and 100 mm siderail) is supplied with a material thickness of 1.5 mm for tray widths 75 mm to 300 mm, and 2 mm for tray widths 450 mm to 900 mm. Other thicknesses are available on request

Perforated tray
Fittings

—
01 Horizontal tee
—
02 Inside bend 45°
—
03 H-style horizontal tee
—
04 Horizontal cross
—
05 Reducer right
—
* Fittings with radius are available upon request.

Fittings enable a perforated tray system to change direction, elevation or size in order to meet building design and cable run constraints.

Features & benefits
- All fittings follow a simple, functional design with connection points at all siderail ends for attachment to straight sections/couplers
- Easy to install with straightforward alignment between straight sections and fittings
- Available in all material types - aluminium, pre-galvanized, hot dip galvanized and stainless (304 or 316) steel
- Siderail heights from 25 mm to 100 mm
- Extensive range of tray widths from 50 mm to 900 mm
- Lightweight design for easy handling on-site
- Aluminium & hot dipped galvanized perforated cable tray's are UL certified to be used as an equipment grounding conductor

Range of fittings
A full suite of fittings ensures the cable tray system can be planned to fit building and cable run constraints within all types of installation.

The full range includes:
- Horizontal bends - from 30° to 90°
- Vertical bends - inside and outside bends from 30° to 90°
- Horizontal tee
- Horizontal cross
- Straight, left or right reducer

All perforated tray components have been designed to allow a cable bend radius of 300 mm, to simplify planning, design and installation.*

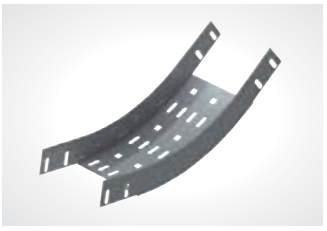
Product selection - fittings

Fitting part numbers are based on a range of selection criteria, dependent on the type of fitting and the role undertaken in the cable tray system.

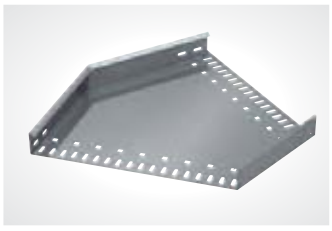
Over the following pages, the selection criteria for each fitting type is established in table form.

Specifiers should choose the appropriate component part from the lists in the tables and create the part number following the example shown.

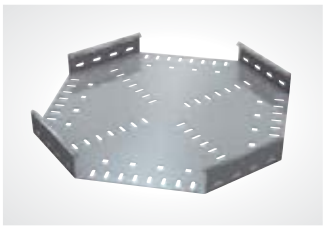
—
01



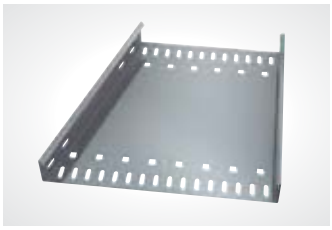
—
02



—
03



—
04



—
05

Perforated tray fittings

Horizontal bends

Horizontal bend 30° / 45° / 60° / 90° - Number selection

ALP	50	300	HB	45

Material prefix

Aluminium	**ALP**
Pre-galvanized steel	**SPP**
Hot dip galvanized steel	**SHP**
Stainless steel 304	**SS4P**
Stainless steel 316	**SS6P**

Side rail height

25 mm	**25**
50 mm	**50**
75 mm	**75**
100 mm	**100**

Tray width

50 mm	**50**
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**
900 mm	**900**

Fitting type

Horizontal bend	**HB**

Length

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Horizontal adjustable bend - Number selection

SHP	50	450	HAB

Material prefix

Aluminium	**ALP**
Pre-galvanized steel	**SPP**
Hot dip galvanized steel	**SHP**
Stainless steel 304	**SS4P**
Stainless steel 316	**SS6P**

Side rail height

25 mm	**25**
50 mm	**50**
75 mm	**75**
100 mm	**100**

Tray width

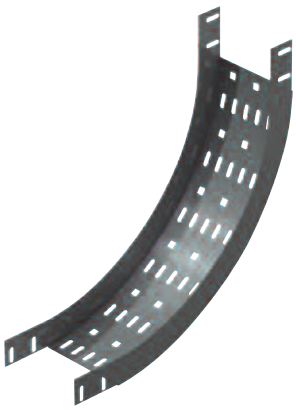
50 mm	**50**
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**
900 mm	**900**

Fitting type

Horizontal Adjustable bend	**HAB**

NOTE: Adjustable elbow can be fixed to any desired angle to suit site requirements.

Perforated tray fittings
Vertical bends



Vertical bends enable the cable tray system to change direction to a different plane. An inside vertical bend changes direction upward from the horizontal plane. An outside vertical bend changes direction downward from the horizontal plane. Vertical bends are available in all material types, siderail heights and tray widths to match straight sections. Available with angles of 30°, 45°, 60° or 90°.

Select the preferred component parts and create the specific part number as per the example shown.

Fitting number selection

ALP	50	300	VI	45

Material prefix

Aluminium	**ALP**
Pre-galvanized steel	**SPP**
Hot dip galvanized steel	**SHP**
Stainless steel 304	**SS4P**
Stainless steel 316	**SS6P**

Siderail height

25 mm	**25**
50 mm	**50**
75 mm	**75**
100 mm	**100**

Tray width

50 mm	**50**
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**
900 mm	**900**

Fitting type

Vertical inside bend	**VI**
Vertical outside bend	**VO**

Length

30°	**30**
45°	**45**
60°	**60**
90°	**90**

01 Inside bend 90°
02 Inside bend 60°
03 Inside bend 45°
04 Inside bend 30°
05 Outside bend 90°
06 Outside bend 60°
07 Outside bend 45°
08 Outside bend 30°


01


02

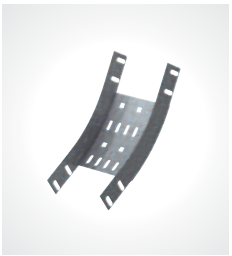

03


04


05


06


07


08

Perforated tray fittings

Vertical Adjustable bend and horizontal unequal cross

Vertical adjustable bend - Number selection

SHP **50** **100** **VIA**

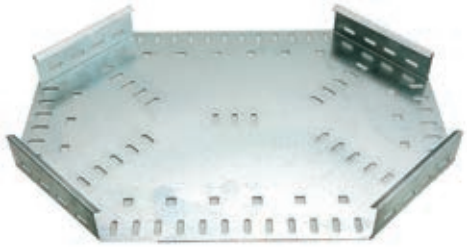
Material prefix	
Aluminium	**ALP**
Pre-galvanized steel	**SPP**
Hot dip galvanized steel	**SHP**
Stainless steel 304	**SS4P**
Stainless steel 316	**SS6P**

Side rail height	
25 mm	**25**
50 mm	**50**
75 mm	**75**
100 mm	**100**

Tray width	
50 mm	**50**
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**
900 mm	**900**

Fitting type	
Vertical Inside Adjustable bend	**VIA**

Horizontal unequal cross - Number selection



SHP **50** **450** **300** **UX**

Material prefix	
Aluminium	**ALP**
Pre-galvanized steel	**SPP**
Hot dip galvanized steel	**SHP**
Stainless steel 304	**SS4P**
Stainless steel 316	**SS6P**

Side rail height	
25 mm	**25**
50 mm	**50**
75 mm	**75**
100 mm	**100**

Tray width 1	
50 mm	**50**
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**
900 mm	**900**

Tray width 2	
50 mm	**50**
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**
900 mm	**900**

Fitting type	
Unequal Cross	**UX**

NOTE: For Unequal Cross specify the widths as W1, W2, W3, W4 in anti-clockwise direction. Thickness for Unequal Cross to be followed of the larger size.

Perforated tray fittings

Tees & crosses

Horizontal tees and crosses enable joints to be made in the cable tray system at 90º angles, in the same plane. Available in all material types, siderail heights and tray widths to match straight sections.

Select the preferred component parts and create the specific part number as per the example shown.

Fitting number selection

SS6P	100	750	HT

Material prefix	
Aluminium	**ALP**
Pre-galvanized steel	**SPP**
Hot dip galvanized steel	**SHP**
Stainless steel 304	**SS4P**
Stainless steel 316	**SS6P**

Side rail height	
25 mm	**25**
50 mm	**50**
75 mm	**75**
100 mm	**100**

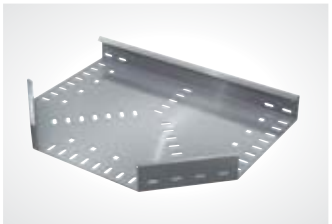
Tray width	
50 mm	**50**
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**
900 mm	**900**

Fitting type	
Horizontal tee	**HT**
Horizontal cross	**HX**

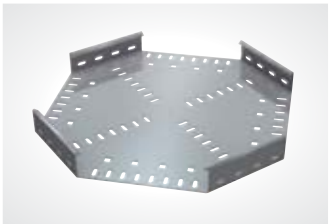
01 Horizontal tee

02 Horizontal cross

01

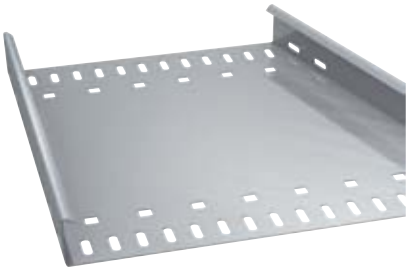


02



Perforated tray fittings

Reducers



Reducers enable joins to be made in the cable tray system to fittings or straight sections of different widths, in the same plane. An offset reducer has the reduction set to a single side (right or left). A straight reducer has two symmetrical offset sides. Available in all material types, siderail heights and tray widths to match straight sections. For reduction, tray width 2 should be less than tray width 1.

Select the preferred component parts and create the specific part number as per the example shown.

Fitting number selection

SHP	50	100	75	SR

Material prefix	
Aluminium	**ALP**
Pre-galvanized steel	**SPP**
Hot dip galvanized steel	**SHP**
Stainless steel 304	**SS4P**
Stainless steel 316	**SS6P**

Side rail height	
25 mm	**25**
50 mm	**50**
75 mm	**75**
100 mm	**100**

Tray width 1	
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**
900 mm	**900**

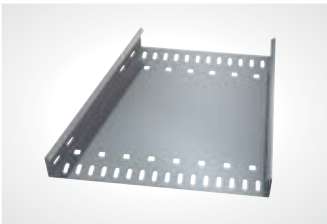
Tray width 2	
50 mm	**50**
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**

Fitting type	
Straight reducer	**SR**
Offset reducer -left	**LR**
Offset reducer -right	**RR**

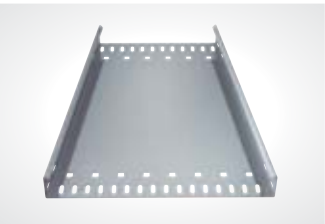
01 Reducer Right

02 Reducer Straight

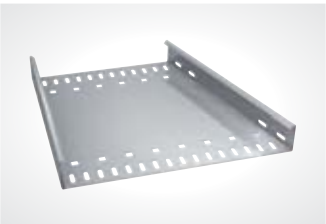
03 Reducer Left



01



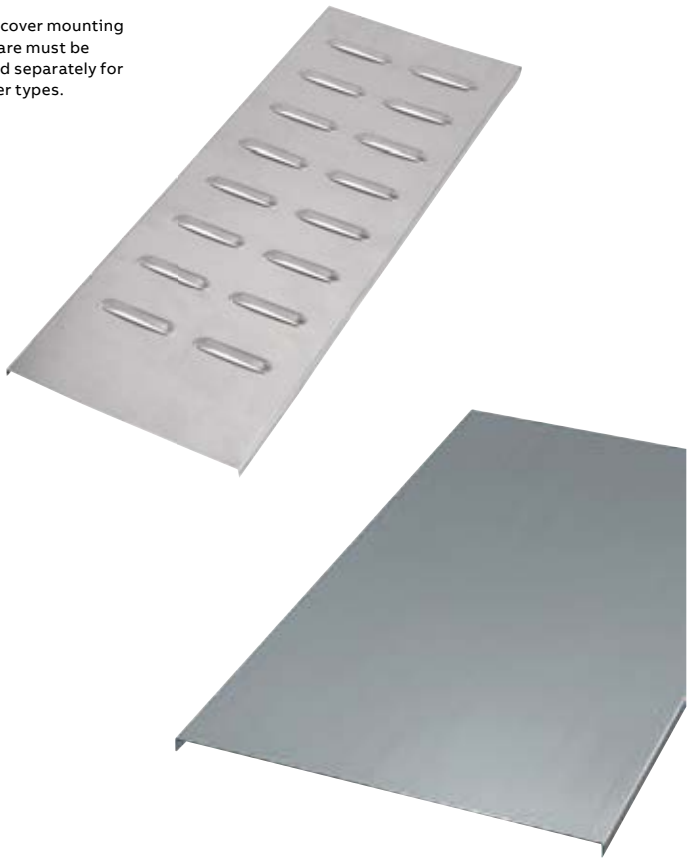
02



03

Perforated tray
Covers

NOTE: cover mounting hardware must be ordered separately for all cover types.



Tray covers are available for all cable tray widths and material types, in solid flanged or ventilated flanged format. Covers provide mechanical protection to cable runs and should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Solid flanged covers provide maximum mechanical protection for cables which have limited heat build up. Ventilated flanged covers offer excellent mechanical protection whilst allowing heat produced by cables to dissipate through vents in the surface. Both solid and ventilated covers include a 15 mm (nominal) flange which enables easy location of the cover above the tray.

Product selection - covers

Cover part numbers are based on a range of selection criteria, dependent on the type of cover required, and the need to cover straight sections or fittings. The tables shown below and over the following pages establish the selection criteria for each cover type. Specifiers should choose the appropriate component part from the lists shown in the tables and create the part number following the example shown.

Cover for straight section - Number selection

SPP	75	SFC	-	3

Material prefix	
Aluminium	**ALP**
Pre-galvanized steel	**SPP**
Hot dip galvanized steel	**SHP**
Stainless steel 304	**SS4P**
Stainless steel 316	**SS6P**

Tray width	
50 mm	**50**
75 mm	**75**
100 mm	**100**
150 mm	**150**
225 mm	**225**
300 mm	**300**
450 mm	**450**
600 mm	**600**
750 mm	**750**
900 mm	**900**

Fitting type	
Solid flanged cover	**SFC**
Ventilated flanged cover	**VFC**

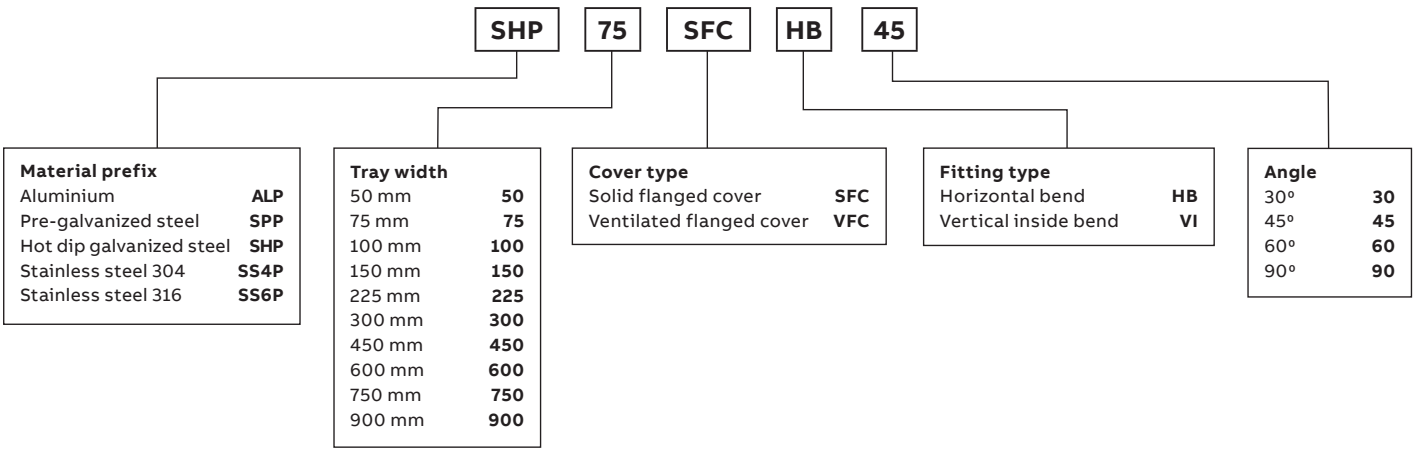
Length	
3 m	**3**

NOTE: Standard thickness of cover 1mm

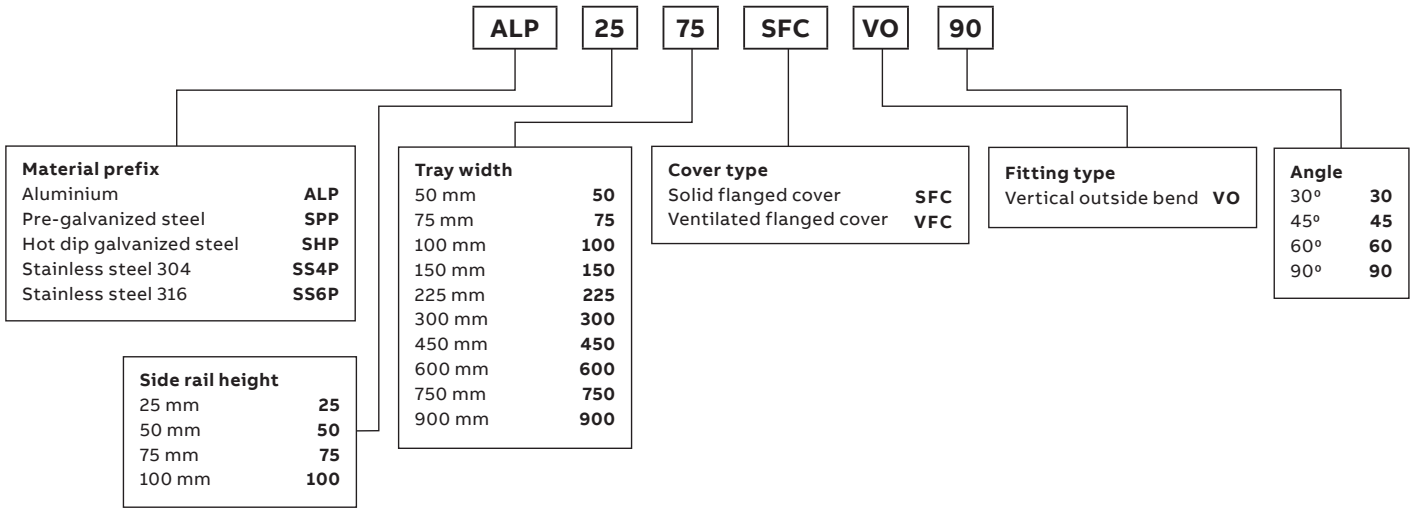
Perforated tray covers

Covers

Cover for horizontal bend & vertical inside bend - Number selection



Cover for vertical outside bend - Number selection

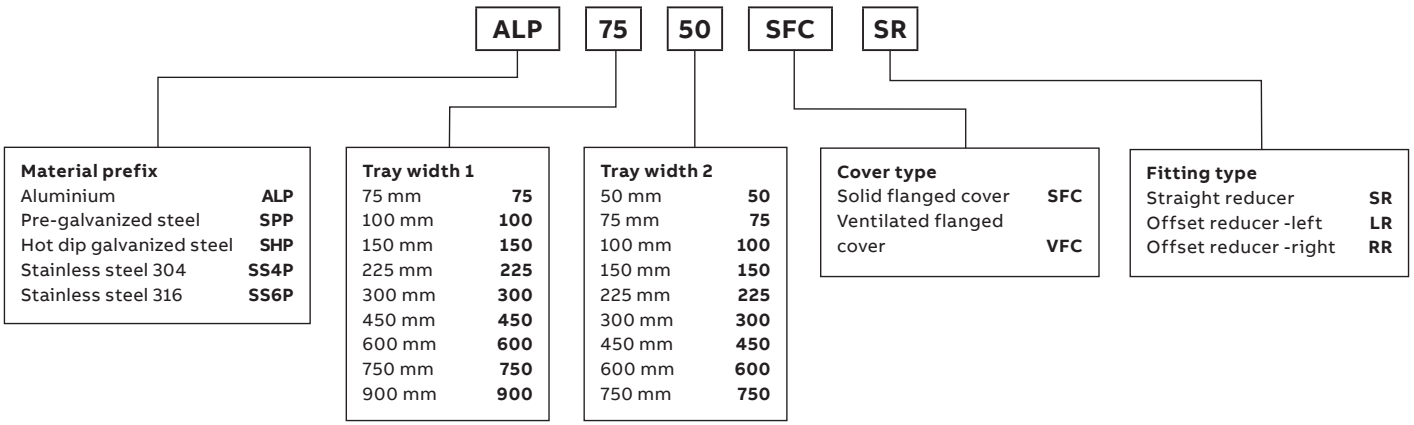


NOTE: Other thicknesses are available on request

Perforated tray covers

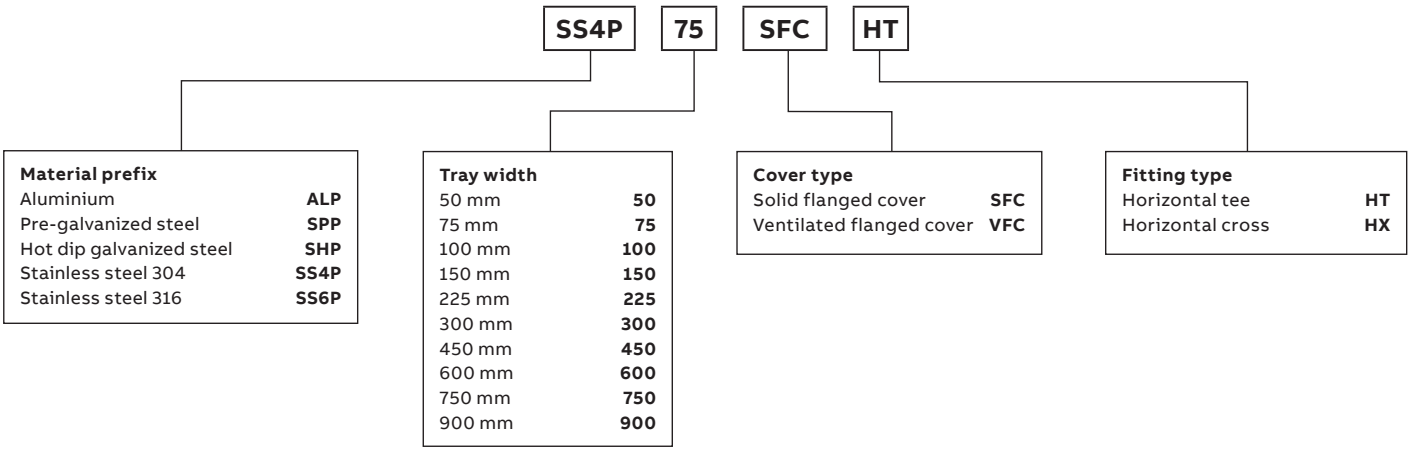
Covers

Cover for reducers - Number selection



NOTE: for reduction, tray width 2 should be less than tray width 1.

Cover for horizontal tee & cross - Number selection



NOTE: Other thicknesses are available on request

Perforated tray fittings
Accessories

Quantity of standard cover clamps required	
Straight section	6 pieces
Horizontal and vertical bends	4 pieces
Tees	6 pieces
Crosses	8 pieces

NOTE: When using heavy-duty cover clamp, only half the quantity of pieces are required.

Accessories and supports supplement installation of straight sections, covers and fittings.
Accessories enable clamping of covers, separation of cables within trays and variable mounting, support and suspension of the perforated tray system.

IMPORTANT NOTE: Tray hardware, where included with accessories, is supplied in electrogalvanized format. Stainless steel hardware is available through addition of a suffix, as noted with each applicable accessory.

Straight coupler

Part No.	Material	Side rail height (mm)
ALP-(*)-SSP	Aluminium	25
SPP-(*)-SSP	Steel (pre-galvanized)	50
SHP-(*)-SSP	Steel (hot dip galvanized)	75
SS4P-(*)-SSP	Stainless steel 304	100
SS6P-(*)-SSP	Stainless steel 316	

For connecting straight sections to fittings and other straight sections. Electro-galvanized hardware included as standard. (*) insert side rail height.
NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25-SSP-S4 = 25 mm siderail coupler with stainless steel 304 hardware.

Reducer coupler

Part No.	Material	Side rail height (mm)	Reduction amount (mm)
ALP-(*)-(**)-RSP	Aluminium	25	25
SPP-(*)-(**)-RSP	Steel (pre-galvanized)	50	300 etc
SHP-(*)-(**)-RSP	Steel (hot dip galvanized)	75	
SS4P-(*)-(**)-RS	Stainless steel 304	100	
SS6P-(*)-(**)-RSP	Stainless steel 316		

For connections between straight sections and fittings or other straight sections, with varying tray widths. Electro-galvanized hardware included as standard.
(*) insert side rail height. (**) insert reduction amount. NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25-300-RSP-S4 = 25 mm siderail reducer coupler with stainless steel 304 hardware.

Expansion coupler

Part No.	Material	Side rail height (mm)
ALP-(*)-ESP	Aluminium	25
SPP-(*)-ESP	Steel (pre-galvanized)	50
SHP-(*)-ESP	Steel (hot dip galvanized)	75
SS4P-(*)-ESP	Stainless steel 304	100
SS6P-(*)-ESP	Stainless steel 316	

For connecting straight sections to fittings and other straight sections allowing for up to 25 mm expansion of the perforated cable tray system.
(*) insert side rail height. NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25-ESP-S4 = 25 mm siderail expansion coupler with stainless steel 304 hardware.

Perforated tray fittings

Accessories

45° Cranked coupler

Part No.	Material	Side rail height (mm)
ALP-(*)-CCP	Aluminium	25
SPP-(*)-CCP	Steel (pre-galvanized)	50
SHP-(*)-CCP	Steel (hot dip galvanized)	75
SS4P-(*)-CCP	Stainless steel 304	100
SS6P-(*)-CCP	Stainless steel 316	

For connections between straight sections and fittings or other straight sections, at 45°. Electro-galvanized hardware included as standard.
(*) insert side rail height. NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25-CCP-S4 = 25 mm siderail cranked coupler with stainless steel 304 hardware.

45° Cranked reducer coupler

Part No.	Material	Side rail height (mm)	Reduction amount (mm)
ALP-(*)-(**)-CRP	Aluminium	25	25
SPP-(*)-(**)-CRP	Steel (pre-galvanized)	50	300 etc
SHP-(*)-(**)-CRP	Steel (hot dip galvanized)	75	
SS4P-(*)-(**)-CRP	Stainless steel 304	100	
SS6P-(*)-(**)-CRP	Stainless steel 316		

For connections between straight sections and fittings or other straight sections with reduced tray widths, at a 45° angle. Electrogalvanized hardware included as standard.
(*) insert side rail height. (**) insert reduction amount. NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25-300-CRP-S4 = 25 mm siderail cranked reducer coupler with stainless steel 304 hardware.

Horizontal adjustable coupler

Part No.	Material	Side rail height (mm)
ALP-(*)-HAP	Aluminium	25
SPP-(*)-HAP	Steel (pre-galvanized)	50
SHP-(*)-HAP	Steel (hot dip galvanized)	75
SS4P-(*)-HAP	Stainless steel 304	100
SS6P-(*)-HAP	Stainless steel 316	

Perforated tray fittings
Accessories

Vertical adjustable coupler

Part No.	Material	Side rail height (mm)
ALP-(*)-VSP	Aluminium	25
SPP-(*)-VSP	Steel (pre-galvanized)	50
SHP-(*)-VSP	Steel (hot dip galvanized)	745
SS4P-(*)-VSP	Stainless steel 304	100
SS6P-(*)-VSP	Stainless steel 316	

For connecting straight sections to fittings and other straight sections at an angle in the vertical plane. Electro-galvanized hardware included as standard.
(*) insert side rail height. NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25-VSP-S4 = 25 mm siderail vertical adjustable coupler with stainless steel 304 hardware.

Cover bracket

Part No.	Material	Side rail height (mm)
ALP-(*)-SCC	Aluminium	25
SPP-(*)-SCC	Steel (pre-galvanized)	50
SHP-(*)-SCC	Steel (hot dip galvanized)	75
SS4P-(*)-SCC	Stainless steel 304	100
SS6P-(*)-SCC	Stainless steel 316	

For securing covers to straight sections and fittings, with flush fit. Order hardware separately.
(*) insert side rail height.

Raised cover bracket

Part No.	Material	Side rail height (mm)
ALP-(*)-RCC	Aluminium	25
SPP-(*)-RCC	Steel (pre-galvanized)	50
SHP-(*)-RCC	Steel (hot dip galvanized)	75
SS4P-(*)-RCC	Stainless steel 304	100
SS6P-(*)-RCC	Stainless steel 316	

For securing covers to straight sections and fittings, whilst allowing a nominal 25 mm gap for additional ventilation. Order hardware separately.
(*) insert side rail height.

Perforated tray fittings

Accessories

Heavy duty cover clamp

Part No.	Material	Side rail height (mm)	Reduction amount (mm)
ALP-(*)(**)-HCC	Aluminium	25	50
SPP-(*)(**)-HCC	Steel (pre-galvanized)	50	75
SHP-(*)(**)-HCC	Steel (hot dip galvanized)	75	100
SS4P-(*)(**)-HCC	Stainless steel 304	100	150
SS6P-(*)(**)-HCC	Stainless steel 316		225
			300
			450
			600
			750
			900

Wraparound design offers added protection for rugged applications. Electro-galvanized hardware included. (*) insert side rail height. (**) insert reduction amount.
NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25300-HCC-S4 = cover clamp with stainless steel 304 hardware.

Hold down clamp

Part No.	Material	Side rail height (mm)
ALP-(*)-HDC	Aluminium	25
SPP-(*)-HDC	Steel (pre-galvanized)	50
SHP-(*)-HDC	Steel (hot dip galvanized)	75
SS4P-(*)-HDC	Stainless steel 304	100
SS6P-(*)-HDC	Stainless steel 316	

Designed to secure perforated cable tray to support system. Electro-galvanized hardware included as standard. (*) insert side rail height.
NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25-HDC-S4 = 25 mm siderail hold down clamp with stainless steel 304 hardware.

Barrier strip

Part No.	Material	Side rail height (mm)
ALP-(*)-SBH-3	Aluminium	25
SPP-(*)-SBH-3	Steel (pre-galvanized)	50
SHP-(*)-SBH-3	Steel (hot dip galvanized)	75
SS4P-(*)-SBH-3	Stainless steel 304	100
SS6P-(*)-SBH-3	Stainless steel 316	

Barrier strips provide a method of separating cables in tray systems. Easily installed using supplied electro-galvanized hardware. Length 3 m. (*) insert side rail height.
NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25-SBH-3-S4 = 25 mm siderail barrier strip with stainless steel 304 hardware.

Perforated tray fittings
Accessories

Closure end plate

Part No.	Material	Side rail height (mm)	Reduction amount (mm)
ALP-(*)(**)-CEP	Aluminium	25	50
SPP-(*)(**)-CEP	Steel (pre-galvanized)	50	75
SHP-(*)(**)-CEP	Steel (hot dip galvanized)	75	100
SS4P-(*)(**)-CEP	Stainless steel 304	100	150
SS4P-(*)(**)-CEP	Stainless steel 316		225
			300
			450
			600
			750
			900

Provides closure to any tray end. Electro-galvanized hardware included. (*) insert side rail height. (**) insert reduction amount.
NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-25150-CEP-S4 = closure end plate with stainless steel 304 hardware.

Drop-out

Part No.	Material	Reduction amount (mm)
ALP-(*)-DO	Aluminium	50
SPP-(*)-DO	Steel (pre-galvanized)	75
SHP-(*)-DO	Steel (hot dip galvanized)	100
SS4P-(*)-DO	Stainless steel 304	150
SS6P-(*)-DO	Stainless steel 316	225
		300
		450
		600
		750
		900

Designed to provide a smooth radiused surface at any position on the tray bottom. Drop-outs are easily attached using electro-galvanized hardware provided. Nominal radius 100 mm.
(*) insert reduction amount. NOTE: to order stainless steel hardware, add suffix -S4 (stainless steel 304), or -S6 (stainless steel 316) to Part No.
Example: ALP-600-DO-S4 = drop-out with stainless steel 304 hardware.

Vertical tray hanger

Part No.	Material	Side rail height (mm)
ALP-(*)-VTH	Aluminium	25
SPP-(*)-VTH	Steel (pre-galvanized)	50
SHP-(*)-VTH	Steel (hot dip galvanized)	75
SS4P-(*)-VTH	Stainless steel 304	100
SS6P-(*)-VTH	Stainless steel 316	

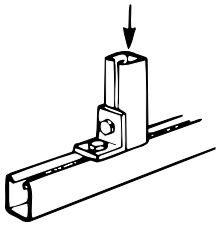
For suspension of vertically hanging perforated tray. Requires threaded rod and hardware (order separately).
(*) insert reduction amount.

Metal framing

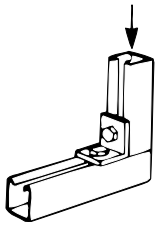
Engineering data & specifications - Metal framing channel

Safe bearing loads for 1-5/8 in. channel and combinations - Safety factor of 2-1/2

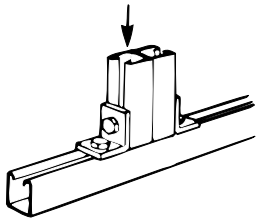
Section	Recommended Load (lb)	(kg)
A1200	5000	2267.96
A1400	3500	1587.57
B1200	6000	2721.55
B1400	3400	1542.21
C1200	5000	2267.96
E1200	5000	2267.96
H1200	4000	1814.37



Section	Recommended Load (lb)	(kg)
A1200	3500	1587.57
A1400	2500	1133.98
B1200	4000	1814.37
B1400	2600	1179.34
C1200	3500	1587.57
E1200	3500	1587.57
H1200	2000	907.18

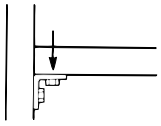


Section	Recommended Load (lb)	(kg)
A1200	8000	3628.74
A1400	5500	2494.76
B1200	9000	4082.33
B1400	4800	2177.24
C1200	8000	3628.74
E1200	8000	3628.74
H1200	5500	2494.76



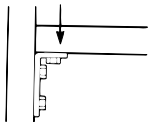
90° Fittings (When used in position shown) - Design load table for typical channel connections - Safety factor of 2-1/2
based on ultimate strength of the connection. Load diagrams indicate upto three design loads, for 12 gauge and 14 gauge channel applications

	Section	Recommended Load (lb)	(kg)
AB202	A1200	1500	680.39
	A1400	1000	453.59



Both ends supported

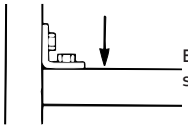
	Section	Recommended Load (lb)	(kg)
AB203	A1200	3500	1587.57
	A1400	2500	1133.98



Both ends supported

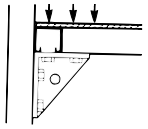
	Section	Recommended Load (lb)	(kg)
AB201		8000	3628.74

	Section	Recommended Load (lb)	(kg)
AB202	A1200	1000	453.59
	A1400	650	294.84



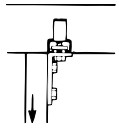
Both ends supported

	Section	Recommended Load (lb)	(kg)
AB213	A1200	3000	1360.78
AB214	A1400	2000	907.18

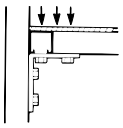


Both ends supported

	Section	Recommended Load (lb)	(kg)
AB20		1500	680.39

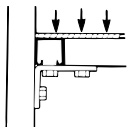


	Section	Recommended Load (lb)	(kg)
AB205	A1200	2000	907.18
AB216	A1400	2000	907.18



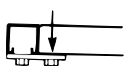
Both ends supported

	Section	Recommended Load (lb)	(kg)
AB204	A1200	1200	544.31
AB214	A1400	1400	635.03



Both ends supported

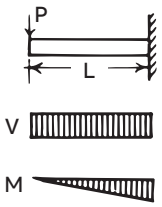
	Section	Recommended Load (lb)	(kg)
AB206	A1200	1000	453.59
AB140	A1400	800	362.87



Both ends supported

Metal framing
for cantilever beams

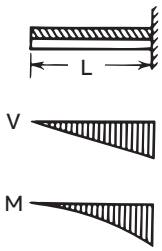
Engineering data & specifications - Design applications



Shear: **Vmax** = P

Moment: **Mmax** = PL

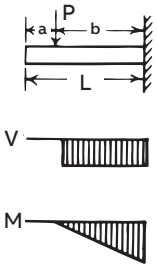
Deflection: Δ **max** = $\frac{PL^3}{3EI}$



Shear: **Vmax** = W

Moment: **Mmax** = WL

Deflection: Δ **max** = $\frac{WL^3}{8EI}$



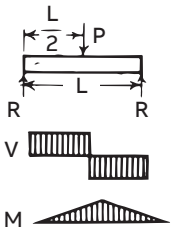
Shear: **Vmax** = P

Moment: **Mmax** = Pb

Deflection: Δ **max** = $\frac{Pb^2(3L-b)}{6EI}$

Metal framing
for simple beams

Engineering data & specifications - Design applications

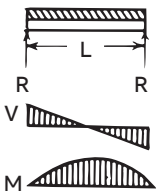


Reaction: $R = \frac{P}{2}$

Shear: **Vmax** = $\frac{P}{2}$

Moment: **Mmax** = $\frac{PL}{4}$

Deflection: Δ **max** = $\frac{PL^3}{48EI}$

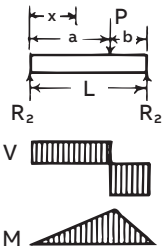


Reaction: $R = \frac{W}{2}$

Shear: **Vmax** = $\frac{W}{2}$

Moment: **Mmax** = $\frac{WL}{8}$

Deflection: Δ **max** = $\frac{5WL^3}{384EI}$



Reaction: $R_1 = \frac{Pb}{L}$ $R_2 = \frac{Pa}{L}$

Shear: **Vmax** = $\frac{Pa}{L}$

Moment: **Mmax** = $\frac{Pab}{L}$

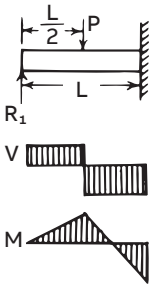
Deflection: Δ **max at x** = $\sqrt{\frac{a\,(a+2b)}{3}}$

Δ **max** = $\frac{Pab\,(a+2b)}{27\,EIL}\sqrt{3a\,(a+2b)}$

Metal framing

for beams fixed on one end, supported at the other end

Engineering data & specifications - Design applications



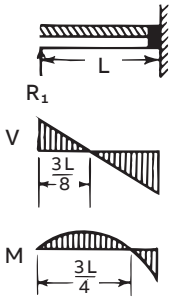
Reaction: $R_1 = \frac{5P}{16}$

Shear: **Vmax** = $\frac{11P}{16}$

Moment: **Mmax** = $\frac{3PL}{16}$

Deflection: △ **max at x** = 0.447L

△ **max** = 0.009317 $\frac{PL^3}{EI}$



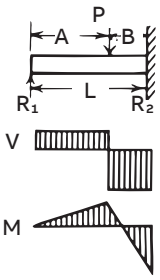
Reaction: $R_1 = \frac{3w}{8}$

Shear: **Vmax** = $\frac{5W}{8}$

Moment: **Mmax** = $\frac{WL}{8}$

Deflection: △ **max at x** = 0.4215L

△ **max** = $\frac{WL^3}{185EI}$



Reaction: $R_1 = \frac{Pb^2}{2L^3}(a + 2L)$

$R_2 = \frac{Pa}{2L^3}(3L^2 + a^2)$

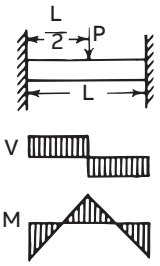
Moment: **M at point of load** = R_1 a

M at fixed end = $\frac{Pab}{2L^2}(a + L)$

Metal framing

for beams fixed at both ends

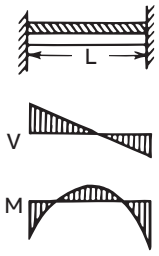
Engineering data & specifications - Design applications



Shear: **Vmax** = $\frac{P}{2}$

Moment: **Mmax** = $\frac{PL}{8}$

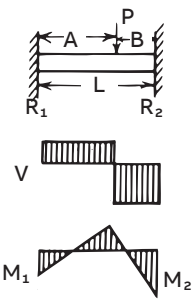
Deflection: **max** = $\frac{PL^3}{192EI}$



Shear: **Vmax** = $\frac{W}{2}$

Moment: **Mmax** = $\frac{WL}{12}$

Deflection: **max** = $\frac{WL^3}{384EI}$



Reaction: $R_1 = \frac{Pb^2}{L^3}(3a + b)$

$R_2 = \frac{Pa^2}{L^3}(a + 3b)$

Moment: $M_1 = \frac{Pab^2}{L^2}$

$M_2 = \frac{Pa^2b}{L^2}$

R - Reaction
M - Moment
P - Concentrated load
W - Total uniform load

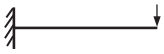
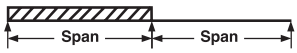
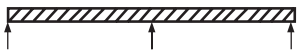
V - Shear
Δ - Defelction
E - Modulus of elasticity
I - Moment of inertia

SECTION 27

Metal framing

Engineering data & specifications - Design applications

Conversion factors for beams with various static loading conditions*

	Load and support condition		Load factor	Deflection factor
1	Simple beam - Uniform load		1.00	1.00
2	Simple beam - Concentrated load at center		0.50	1.25
3	Simple beam - Two equal concentrated loads at ¼ points		1.00	1.10
4	Beam fixed at both ends - Uniform load		1.50	0.30
5	Beam fixed at both ends - Concentrated load at center		1.00	0.40
6	Cantilever beam - Uniform load		0.25	2.40
7	Cantilever beam - Concentrated load at end		0.12	3.20
8	Continuous beam - Two equal spans - Uniform load on one span		1.30	0.92
9	Continuous beam - Two equal spans - Uniform load on both ends		1.00	0.42
10	Continuous beam - Two equal spans - Concentrated load at center of one span		0.62	0.71
11	Continuous beam - two equal spans - Concentrated load at center of both spans		0.67	0.48

*** Conversion factors for beams with various static loading conditions** - Load tables on pages A59 through A63 for A, B, C, E, and H Series channel are for single span beams supported at the ends. These can be used in the majority of cases. There are times when it is necessary to know what happens with other loading and support conditions. Some common arrangements are shown above. Simply multiply the loads from the Design Load Tables times the factors given above.

Cable trunking
Overview

T&B Metal Trunking has a versatile design to suit the client's requirements for laying any sensitive cables, instrument cables, and light duty electrical cables for industrial and commercial buildings, malls, Airports etc.

T&B Metal Trunking are manufactured from various metals like Aluminum, Pre-Galvanized Steel, Hot Dip Galvanized Steel, Stainless Steel 304 & 316L etc. Other choices of finishes are available like with Powder coated finish of various colors as per the project requirements. Our Trunking covers are fixed with screws for ensuring the rigidity of the system and comes with the various type of fittings and accessories to suit the project site requirements.

Extensive product range
T&B Metal Trunking comes in various thicknesses from 1.0mm, 1.5mm & 2mm. Other thicknesses are available upon request. T&B Metal Trunking widths ranges from 50mm, 75mm, 100mm, 150mm, 225mm, 300mm, 450mm, 600mm, 750mm, 900mm, etc. Other widths are available upon request.

T&B Metal Trunking heights ranges from 50mm, 75mm, 100mm etc. Other heights are available upon request.

T&B Metal Trunking conforms to BS 4678 Part 1.

Enhanced safety
T&B Metal Trunking offers enhanced safety with lower risk of exposure to live, energized parts.

In metal trunking system, cables can be pulled from near one termination enclosure to the next before being connected, rather than being pulled through conduit after the cable is terminated.

Increased adaptability
Businesses must remain flexible - to be able to expand facilities quickly, or introduce new processes or product lines as markets dictate. Our metal trunking offers a major advantage in being highly adaptable to meet new needs and technology, with no need to replace the system with each new development. Modifications or expansions are achieved quickly as cables can enter or exit the tray at any point, thus keeping business disruption and downtime to a minimum.

Reduced costs
Reliability and adaptability coupled with ease of maintenance result in metal trunking systems delivering many types of cost saving, including:
- Lower installation, engineering and maintenance costs
- Lower need to reconfigure the system as needs change
- Reduced downtime for electrical and data handling systems
- Fewer environmental problems resulting from loss of power to essential equipment

Low maintenance
Metal trunking wiring systems have a lower maintenance demand than conduit systems. When maintenance is necessary, it proves easier, less labour intensive, and requires less time to complete.

FIRST CLASS SUPPORT

ABB combines global market leadership with local product & technical support, either through our network of distributors, or via ABB sales office in your country.

Trunking & accessories

Cable trunking & accessories

Straight section cable trunking - Number selection

SS4P	75	100	SL	15	3

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Tray width

50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**
750mm	**750**
900mm	900

Fitting type

Straight section	**SL**

Material thickness

1.0mm	**10**
1.5mm	**15**
2.0mm	**20**

Length

3m	**3**

Horizontal tee - Number selection

SS6T	50	100	HT

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

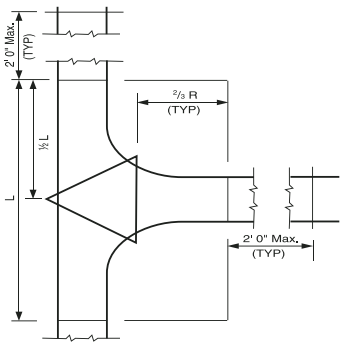
50mm	**50**
75mm	**75**
100mm	**100**

Tray width

50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Fitting type

Horizontal tee	**HT**



Trunking & accessories

Cable trunking & accessories

Horizontal bend 30° / 45° / 60° / 90° - Number selection

ALT	75	100	SL	45

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Tray width

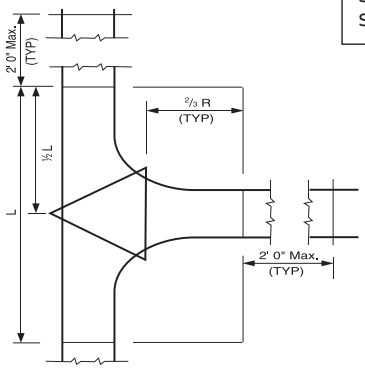
50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Fitting type

Horizontal bend	**HB**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**



Horizontal cross - Number selection

SS6T	50	100	HT

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

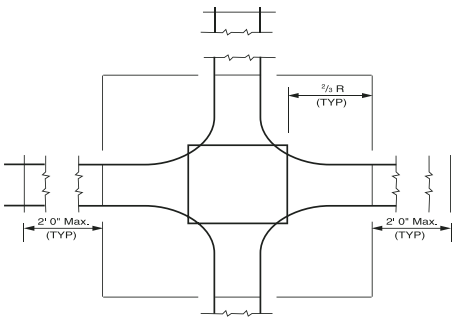
50mm	**50**
75mm	**75**
100mm	**100**

Tray width

50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Fitting type

Horizontal cross	**HX**



Trunking & accessories

Cable trunking & accessories

Vertical inside bend - Number selection

ALT	50	300	VI	45

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Tray width

50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

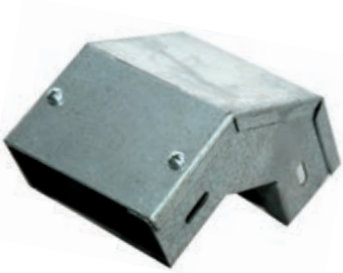
Fitting type

Vertical inside bend	VI

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Vertical outside bend - Number selection



ALT	50	300	V0	45

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Tray width

50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Fitting type

Vertical outside bend	VO

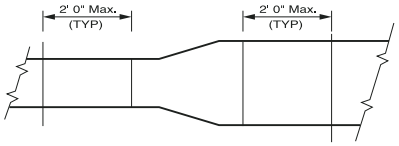
Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Trunking & accessories

Cable trunking & accessories

Reducer - Number selection



ALT	50	300	50	SR

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Tray width 1

75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Tray width 2

50mm	**75**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**

Fitting type

Straight reducer	**HB**
Offset reducer- Left	**LR**
Offset reducer- Reducer	**RR**

Reducer tee - Number selection

SS6T	100	300	50	RT

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Tray width 1

75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Tray width 2

50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**

Fitting type

Reducer tee	**RT**

Trunking & accessories

Cable trunking & accessories

Expanding tee - Number selection

SS6T	100	150	300	ET

Material prefix	
Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height	
50mm	**50**
75mm	**75**
100mm	**100**

Tray width 1	
50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**

Tray width 2	
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Fitting type	
Straight reducer	**SR**
Offset reducer- Left	**LR**
Offset reducer- Reducer	**RR**
Expanding tee	**ET**

Vertical tee down - Number selection

ALT	50	300	VTD

Material prefix	
Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height	
50mm	**50**
75mm	**75**
100mm	**100**

Tray width	
50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Fitting type	
Vertical tee down	**VTD**

Trunking & accessories

Cable trunking & accessories

Vertical tee up - Number selection

ALT	50	300	VTU

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Tray width

75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Fitting type

Vertical tee up	**VTU**

Vertical inside bend - Number selection

SS6T	100	300	50	RT

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Tray width

50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Fitting type

Vertical inside bend	**VI**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Trunking & accessories

Cable trunking & accessories

Vertical outside bend - Number selection

ALT	75	300	VO	45

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Tray width

50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**

Fitting type

Vertical outside bend	**VO**

Angle

30°	**30**
45°	**45**
60°	**60**
90°	**90**

Standard splice plate - Number selection

ALT	50	SSP

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Description

Standard Splice Plate	**SSP**

Trunking & accessories

Cable trunking & accessories

Expansion splice plate - Number selection

ALT	100	ESP

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**
75mm	**75**
100mm	**100**

Description

Expanding Splice Plate	**SSP**

Closure end plate - Number selection

ALT	50	35	50	CEP

Material prefix

Aluminum	**ALT**
Pre-galvanized steel	**SPT**
Hot dip galvanized steel	**SHT**
Stainless Steel 304	**SS4T**
Stainless Steel 316	**SS6T**

Side rail height

50mm	**50**

H

35mm	**35**

Tray width

50mm	**50**
75mm	**75**
100mm	**100**
150mm	**150**
225mm	**225**
300mm	**300**
450mm	**450**
600mm	**600**

Fitting type

Closure end plate	**CEP**

Channel tray
Straight sections

01 Solid channel
02 Ventilated channel

Thomas & Betts offers nonmetallic cable channel in solid or ventilated straight sections. Horizontal and vertical solid bottom fittings are also available to complete your system layout.

1. Material choice

Materials
- Aluminium
- Pregalvanized steel
- Hot-dipped galvanized steel
- Stainless steel 316
- Coatings
- Other

T&B® Channel Tray systems are fabricated from a corrosion-resistant metal (lowcarbon steel, stainless steel or an Aluminium alloy) or from a metal with a corrosionresistant finish (zinc or epoxy). The choice of material for any particular installation depends on the installation environment (corrosion and electrical considerations) and cost. Please refer to the technical section (pages 22 - 51) for further explanation.

2. T&B channel tray width

Widths
- 1.5" (38.1mm)
- 3" (76.2mm)
- 4" (101.6mm)
- 6" (152.4mm)

The width of a channel tray is a function of the number, size, spacing and weight of the cables in the tray. Available nominal widths are 1.5, 3, 4 and 6" (38.1, 76.2, 101.6, 152.4mm).

When specifying width, cable ties or other spacing devices may be used to maintain the required air space between cables.

3. Type of tray bottom

Fittings type
- Ventilated
- Solid

Cable channel
- Thomas & Betts offers cable channel in solid or ventilated straight sections.
- Ventilated channel has burr-free oblong punched holes for easy access.
- Ty-Rap® slots are provided between each opening for securing of cable.
- Thomas & Betts channel tray meets NEMA VE-1/CSA C22.22.

01

02

4. Fittings selection

Fittings type
- Horizontal bends (90°, 60°, 45° and 30°)
- Horizontal tees and crosses
- Vertical bends (90°, 60°, 45° and 30°)

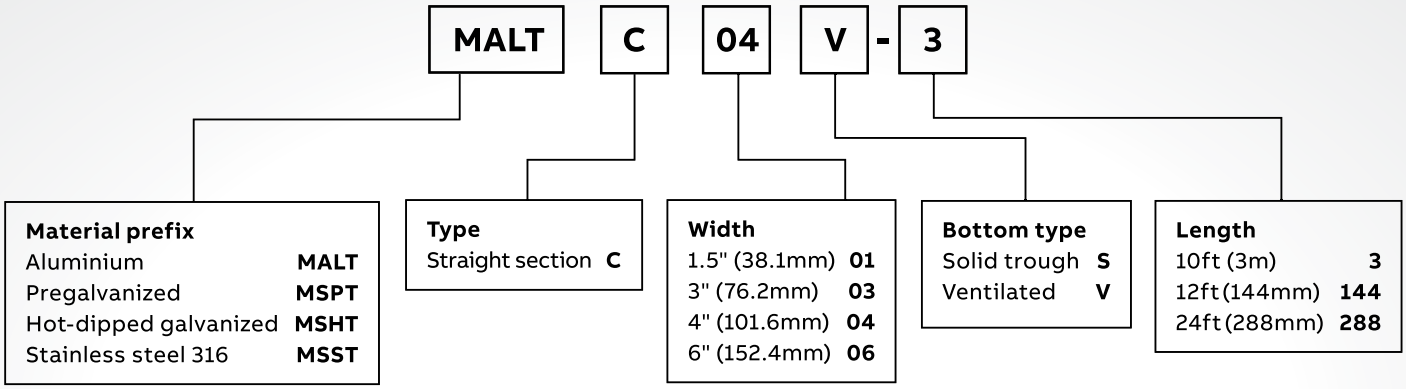
Fittings are used to change the size or direction of the channel tray. The most important decision to be made in fitting design concerns radius. The radius of the bend, whether horizontal or vertical, can be zero (non-radius), 12" (304.8mm), 24" (609.6mm) or greater on a custom basis. The selection requires a compromise with the considerations being available space, minimum bending radius of cables, ease of cable pulling and cost. The typical radius is 24" (609.6mm).

Fittings are also available for 30°, 45˚, 60˚ and 90˚ angles. When a standard angle will not work, adjustable elbows can be used. It may be necessary to add supports to the tray at these points. Refer to CSA/NEMA VE2 Installation Guidelines for suggested support locations.

Straight section number selection

How to create catalog numbers
1. Select the material.
2. Select nominal width of tray.
3. Select the bottom type.
4. The last number is the length of the channel tray.

Example:
MALTC04V-3
- Aluminium
- 4" wide
- Ventilated bottom
- 10 ft. length



Channel tray straight sections

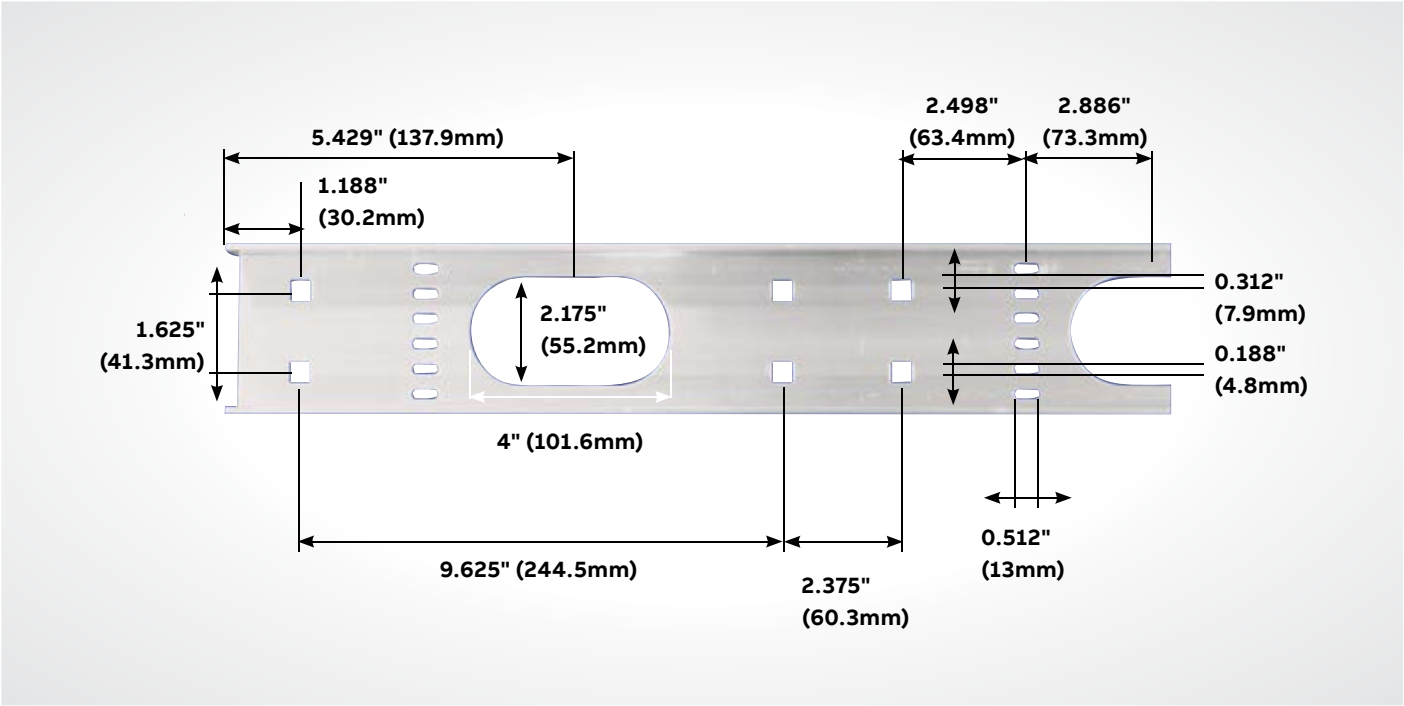
Straight sections - Solid and ventilated bottom

—
01 Bottom view of ventilated channel tray larger than 1.5" (38.1mm) wide

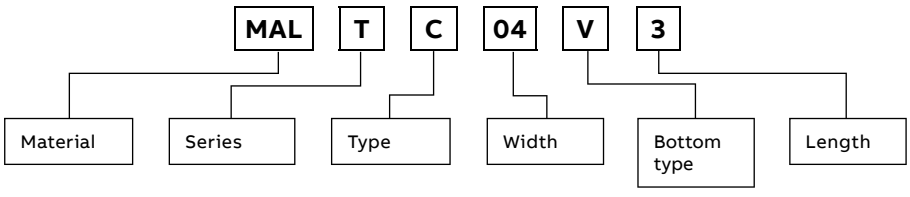
Selection guide

- Prefix: MALT (Alumimium), MSPT (Pregalvanised), MSHT (Hot-dipped galvanised), MSST (Stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4)
- Bottom styles: V – Ventilated, S – Solid

—
01



—
Straight section number selection



Channel tray straight sections

Straight section selection guide - Solid and ventilated bottom

01 Ventilated style offered in 1.5" (38.1mm) wide only

02 Ventilated style offered in 3" (76.2mm), 4" (101.6mm), 6" (152.4mm) wide only

03 Solid offered in all widths

01

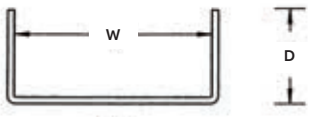
02

03

Channel tray straight sections

Aluminium straight sections - Solid and ventilated bottom

Aluminium



- Aluminium – extruded material
- Ventilated: Pre-punched burr-free oblong holes with Ty-Rap® slots between each opening
- Accessories: One connector complete with hardware supplied with each length.
- Material: Aluminium-6063-T6, Pregalvanized, Hot-dipped galvanized, 316 stainless steel

Aluminium solid straight lengths

	Channel width (W)		Channel width (W)			Support span ft (m)				
Series	**(in)**	**(mm)**	**(in)**	**(mm)**		**2' (0.61m)**	**4' (1.22m)**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**
MALTC	1.5	38.1	¾	19.1	**Load (lb)/ft)**	47.5	11.9	5.4	3.0	1.9
					Load (kg)/m)	70.69	17.71	8.04	4.46	2.83
					Deflection (in)	0.170	0.680	0.745	1.325	2.070
					Deflection (mm)	4.32	17.27	18.92	33.66	52.58
	3	76.2	1⅜	34.9	**Load (lb)/ft)**	362.5	90.6	40.3	22.7	17
					Load (kg)/m)	539.46	134.83	59.97	33.78	25.30
					Deflection (in)	0.083	0.330	0.743	1.322	2.065
					Deflection (mm)	2.11	8.38	18.87	33.58	52.45
	4	101.6	1⅝	41.3	**Load (lb)/ft)**	580	145	64.4	36.3	24
					Load (kg)/m)	863.13	215.78	95.84	54.02	35.72
					Deflection (in)	0.065	0.260	0.585	1.041	1.626
					Deflection (mm)	1.65	6.60	14.86	26.44	41.30
	6	152.4	1¾	44.5	**Load (lb)/ft)**	607.5	151.9	67.5	38	25
					Load (kg)/m)	904.06	226.05	100.45	56.55	37.20
					Deflection (in)	0.061	0.244	0.550	0.977	1.527
					Deflection (mm)	1.55	6.20	13.97	24.82	38.79

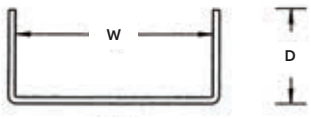
Aluminium ventilated straight lengths

	Channel width (W)		Channel width (W)			Support span ft (m)				
Series	**(in)**	**(mm)**	**(in)**	**(mm)**		**2' (0.61m)**	**4' (1.22m)**	**6' (1.83m)**	**8' (2.44m)**	**10' (3.05m)**
MALTC	1.5	38.1	¾	19.1	**Load (lb)/ft)**	97.5	24.4	10.8	6.1	3.9
					Load (kg)/m)	145.10	36.31	16.07	9.08	5.80
					Deflection (in)	0.045	0.181	0.408	0.725	1.133
					Deflection (mm)	1.14	4.60	10.36	18.42	28.78
	3	76.2	1⅜	34.9	**Load (lb)/ft)**	252	63	28	15.8	17
					Load (kg)/m)	375.02	93.75	41.67	23.51	25.30
					Deflection (in)	0.034	0.134	0.302	0.538	0.840
					Deflection (mm)	0.86	3.40	7.67	13.67	21.34
	4	101.6	1⅝	41.3	**Load (lb)/ft)**	408	102	45.3	25.5	24
					Load (kg)/m)	607.17	151.79	67.41	37.95	35.72
					Deflection (in)	0.026	0.105	0.237	0.421	0.658
					Deflection (mm)	0.66	2.67	6.02	10.69	16.71
	6	152.4	1¾	44.5	**Load (lb)/ft)**	432	108	48	27	25
					Load (kg)/m)	642.89	160.72	71.43	40.18	37.20
					Deflection (in)	0.024	0.096	0.217	0.386	0.603
					Deflection (mm)	0.61	2.44	5.51	9.80	15.32

Channel tray straight sections

Steel straight sections - Solid and ventilated bottom

Steel



- Solid: Steel – roll formed steel
- Ventilated: Pre-punched burr-free oblong holes with Ty-Rap® slots between each opening
- Accessories: One connector complete with hardware supplied with each length.
- Material: Aluminium-6063-T6, Pregalvanized, Hot-dipped galvanized, 316 stainless steel

Steel solid straight lengths

	Channel width (W)		Channel width (W)			Support span ft (m)				
Series	(in)	(mm)	(in)	(mm)		2' (0.61m)	4' (1.22m)	6' (1.83m)	8' (2.44m)	10' (3.05m)
MSPTC MSHTC MSSTC	1.5	38.1	¾	19.1	Load (lb)/ft)	97.5	24.4	10.8	6.1	3.9
					Load (kg)/m)	145.10	36.31	16.07	9.08	5.80
					Deflection (in)	0.045	0.181	0.408	0.725	1.133
					Deflection (mm)	1.14	4.60	10.36	18.42	28.78
	3	76.2	1⅜	34.9	Load (lb)/ft)	252	63	28	15.8	17
					Load (kg)/m)	375.02	93.75	41.67	23.51	25.30
					Deflection (in)	0.034	0.134	0.302	0.538	0.840
					Deflection (mm)	0.86	3.40	7.67	13.67	21.34
	4	101.6	1⅝	41.3	Load (lb)/ft)	408	102	45.3	25.5	24
					Load (kg)/m)	607.17	151.79	67.41	37.95	35.72
					Deflection (in)	0.026	0.105	0.237	0.421	0.658
					Deflection (mm)	0.66	2.67	6.02	10.69	16.71
	6	152.4	1¾	44.5	Load (lb)/ft)	432	108	48	27	25
					Load (kg)/m)	642.89	160.72	71.43	40.18	37.20
					Deflection (in)	0.024	0.096	0.217	0.386	0.603
					Deflection (mm)	0.61	2.44	5.51	9.80	15.32

Steel ventilated straight lengths

	Channel width (W)		Channel width (W)			Support span ft (m)				
Series	(in)	(mm)	(in)	(mm)		2' (0.61m)	4' (1.22m)	6' (1.83m)	8' (2.44m)	10' (3.05m)
MSPTC MSHTC MSSTC	1.5	38.1	¾	19.1	Load (lb)/ft)	97.5	24.4	10.8	6.1	3.9
					Load (kg)/m)	145.10	36.31	16.07	9.08	5.80
					Deflection (in)	0.045	0.181	0.408	0.725	1.133
					Deflection (mm)	1.14	4.60	10.36	18.42	28.78
	3	76.2	1⅜	34.9	Load (lb)/ft)	207	51.8	23	12.9	14
					Load (kg)/m)	308.05	77.09	34.23	19.20	20.83
					Deflection (in)	0.041	0.163	0.366	0.652	1.018
					Deflection (mm)	1.04	4.14	9.30	16.56	25.86
	4	101.6	1⅝	41.3	Load (lb)/ft)	363	90.8	40.3	22.7	19
					Load (kg)/m)	540.20	135.12	59.97	33.78	28.28
					Deflection (in)	0.030	0.119	0.269	0.477	0.746
					Deflection (mm)	0.76	3.02	6.83	12.12	18.95
	6	152.4	1¾	44.5	Load (lb)/ft)	405	101.3	45	25.3	21
					Load (kg)/m)	602.70	150.75	66.97	37.65	31.25
					Deflection (in)	0.027	0.106	0.239	0.425	0.664
					Deflection (mm)	0.69	2.69	6.07	10.80	16.87

Channel tray
Fittings

—
01 Horizontal cross
—
02 90° Horizontal bend
—
03 Horizontal tee

—
01

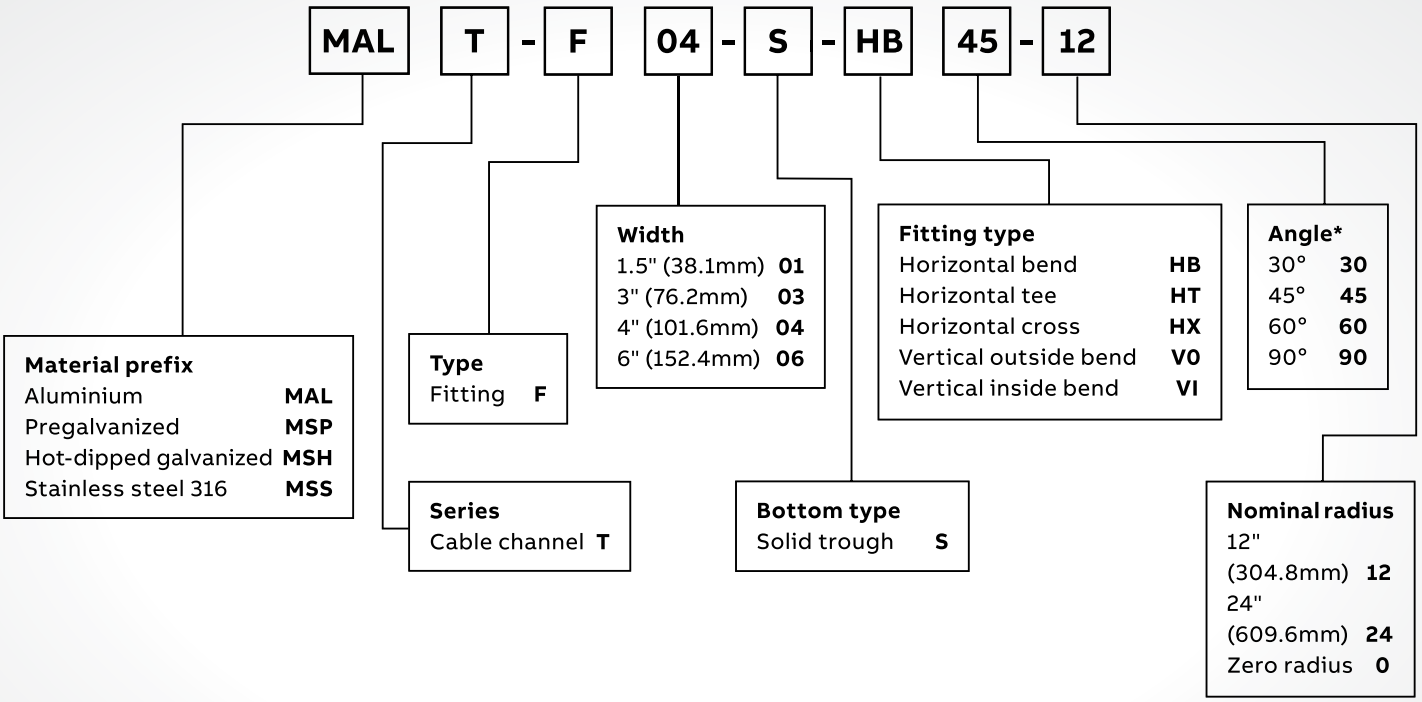
—
02

—
03

Fittings number selection

How to create catalog numbers
1. Select fitting material.
2. Select nominal width of fitting.
3. Select type of fitting.
4. Select degree of angle if required.
5. Select radius.

Example:
MALTF04SHB4512
- Aluminium
- 4" wide
- Horizontal bend
- 45° degree angle
- 12" radius



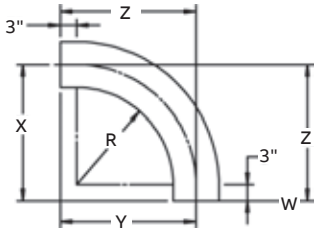
Key

* = Angle is required for HB, VI, VO only

Channel tray fittings

90° Horizontal bend fittings

90° Horizontal bend



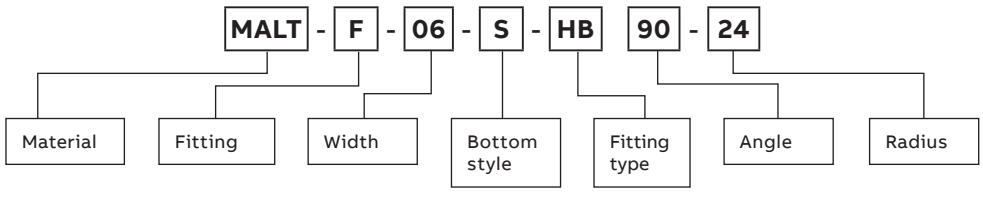
Radius (R) (in)	Radius (R) (mm)	Width (W) (in)	Width (W) (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HB90-12	15¾	400.05	15¾	400.05
		3	76.2	(Prefix)-F 03-S-HB90-12	16½	419.10	16½	419.10
		4	101.6	(Prefix)-F 04-S-HB90-12	17	431.80	17	431.80
		6	152.4	(Prefix)-F 06-S-HB90-12	18	457.20	18	457.20
24	609.6	1.5	38.1	(Prefix)-F 01-S-HB90-24	27¾	704.85	27¾	704.85
		3	76.2	(Prefix)-F 03-S-HB90-24	28½	723.90	28½	723.90
		4	101.6	(Prefix)-F 04-S-HB90-24	29	736.60	29	736.60
		6	152.4	(Prefix)-F 06-S-HB90-24	30	762.00	30	762.00

* Specify prefixes MALT, MSPT, MSHT or MSST.

Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Angle: 90°
- Bottom style: S - solid

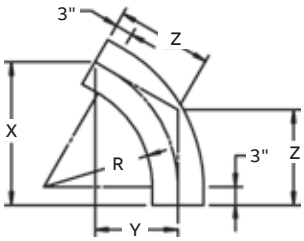
Fitting number selection



Channel tray fittings

60° Horizontal bend fittings

60° Horizontal bend



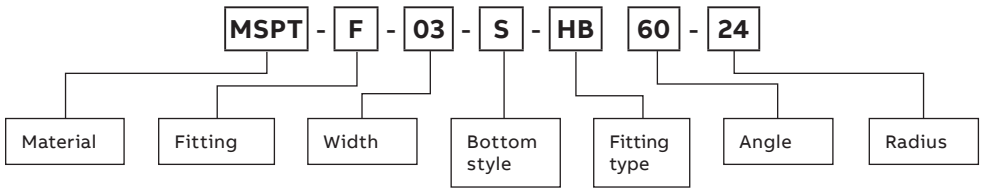
Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HB60-12	15½	393.70	9	228.60	10¼	260.35
		3	76.2	(Prefix)-F 03-S-HB60-12	16 3/16	427.04	9⅜	238.13	10 13/16	274.64
		4	101.6	(Prefix)-F 04-S-HB60-12	16⅝	422.28	9⅝	244.48	11 1/16	280.99
		6	152.4	(Prefix)-F 06-S-HB60-12	17½	444.50	10⅛	257.18	11 11/16	296.86
24	609.6	1.5	38.1	(Prefix)-F 01-S-HB60-24	26	660.40	15	381.00	17¼	438.15
		3	76.2	(Prefix)-F 03-S-HB60-24	26 9/16	674.69	15⅜	390.53	17¾	450.85
		4	101.6	(Prefix)-F 04-S-HB60-24	27	685.80	15⅝	396.88	18	457.20
		6	152.4	(Prefix)-F 06-S-HB60-24	27⅞	708.03	16⅛	409.58	18 9/16	471.49

* Specify prefixes MALT, MSPT, MSHT or MSST.

Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Angle: 60°
- Bottom style: S - solid

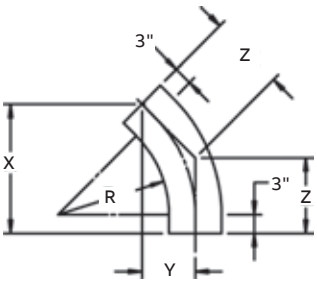
Fitting number selection



Channel tray fittings

45° Horizontal bend fittings

45° Horizontal bend



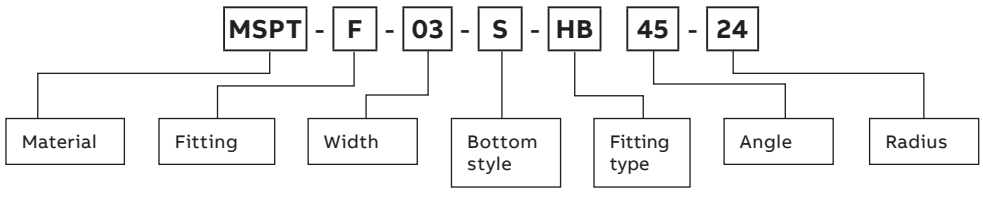
Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HB45-12	14 1/8	358.78	5 7/8	149.23	8 1/4	209.55
		3	76.2	(Prefix)-F 03-S-HB45-12	14 11/16	373.06	6 1/16	153.99	8 9/16	217.49
		4	101.6	(Prefix)-F 04-S-HB45-12	15	381.00	6 1/4	158.75	8 13/16	223.84
		6	152.4	(Prefix)-F 06-S-HB45-12	15 3/4	400.05	6 1/2	165.10	9 3/16	233.36
24	609.6	1.5	38.1	(Prefix)-F 01-S-HB45-24	22 5/8	574.68	9 3/8	238.13	13 1/4	336.55
		3	76.2	(Prefix)-F 03-S-HB45-24	23 1/8	587.38	9 9/16	242.89	13 9/16	344.49
		4	101.6	(Prefix)-F 04-S-HB45-24	23 1/2	596.90	9 3/4	247.65	13 3/4	349.25
		6	152.4	(Prefix)-F 06-S-HB45-24	24 3/16	614.36	10	254.00	14 11/16	373.06

* Specify prefixes MALT, MSPT, MSHT or MSST.

Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Angle: 45°
- Bottom style: S - solid

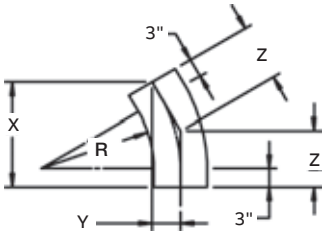
Fitting number selection



Channel tray fittings

30° Horizontal bend fittings

30° Horizontal bend



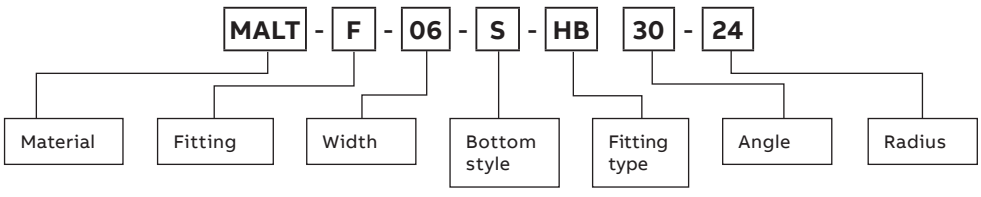
Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HB30-12	12	304.80	3¼	82.55	6½	165.10
		3	76.2	(Prefix)-F 03-S-HB30-12	12⅜	314.33	3⁵⁄₁₆	84.14	6⅝	168.28
		4	101.6	(Prefix)-F 04-S-HB30-12	12⅝	320.68	3⅜	85.73	6¾	171.45
		6	152.4	(Prefix)-F 06-S-HB30-12	13⅛	333.38	3½	88.90	7	177.80
24	609.6	1.5	38.1	(Prefix)-F 01-S-HB30-24	18	457.20	4¾	120.65	9⅝	244.48
		3	76.2	(Prefix)-F 03-S-HB30-24	18⅜	466.73	4¹⁵⁄₁₆	125.41	9¹³⁄₁₆	249.24
		4	101.6	(Prefix)-F 04-S-HB30-24	18⅝	473.08	5	127.00	9¹⁵⁄₁₆	252.41
		6	152.4	(Prefix)-F 06-S-HB30-24	19⅛	485.78	5⅛	130.18	10¼	260.35

* Specify prefixes MALT, MSPT, MSHT or MSST.

Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Angle: 30°
- Bottom style: S - solid

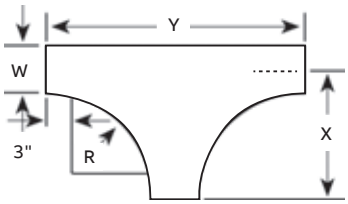
Fitting number selection



Channel tray fittings

Horizontal tee fittings

Horizontal tee



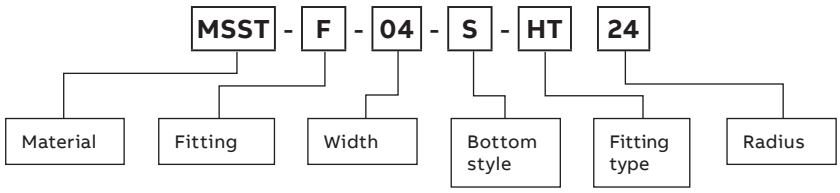
Radius (R) (in)	Radius (R) (mm)	Width (W) (in)	Width (W) (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HT-12	15¾	400.05	31½	800.10
		3	76.2	(Prefix)-F 03-S-HT-12	16½	419.10	33	838.20
		4	101.6	(Prefix)-F 04-S-HT-12	17	431.80	34	863.60
		6	152.4	(Prefix)-F 06-S-HT-12	18	457.20	36	914.40
24	609.6	1.5	38.1	(Prefix)-F 01-S-HT-24	27¾	704.85	55½	1409.70
		3	76.2	(Prefix)-F 03-S-HT-24	28½	723.90	57	1447.80
		4	101.6	(Prefix)-F 04-S-HT-24	29	736.60	58	1473.20
		6	152.4	(Prefix)-F 06-S-HT-24	30	762.00	60	1524.00

* Specify prefixes MALT, MSPT, MSHT or MSST.

Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

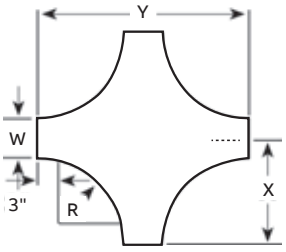
Fitting number selection



Channel tray fittings

Horizontal cross fittings

Horizontal cross



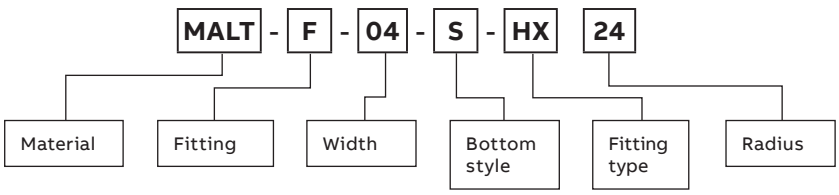
Radius (R) (in)	Radius (R) (mm)	Width (W) (in)	Width (W) (mm)	Cat. No.	Dimensions X (in)	Dimensions X (mm)	Dimensions Y (in)	Dimensions Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-HX-12	15¾	400.05	31½	800.10
		3	76.2	(Prefix)-F 03-S-HX-12	16½	419.10	33	838.20
		4	101.6	(Prefix)-F 04-S-HX-12	17	431.80	34	863.60
		6	152.4	(Prefix)-F 06-S-HX-12	18	457.20	36	914.40
24	609.6	1.5	38.1	(Prefix)-F 01-S-HX-24	27¾	704.85	55½	1409.70
		3	76.2	(Prefix)-F 03-S-HX-24	28½	723.90	57	1447.80
		4	101.6	(Prefix)-F 04-S-HX-24	29	736.60	58	1473.20
		6	152.4	(Prefix)-F 06-S-HX-24	30	762.00	60	1524.00

* Specify prefixes MALT, MSPT, MSHT or MSST.

Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



Channel tray fittings

90° Vertical outside/inside bend fittings

90° Vertical outside bend

Radius (R)		Width (W)			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VO90-12	15	381.00	15	381.00
		3	76.2	(Prefix)-F 03-S-VO90-12	15	381.00	15	381.00
		4	101.6	(Prefix)-F 04-S-VO90-12	15	381.00	15	381.00
		6	152.4	(Prefix)-F 06-S-VO90-12	15	381.00	15	381.00
24	609.6	1.5	38.1	(Prefix)-F 01-S-VO90-24	27	685.80	15	685.80
		3	76.2	(Prefix)-F 03-S-VO90-24	27	685.80	27	685.80
		4	101.6	(Prefix)-F 04-S-VO90-24	27	685.80	27	685.80
		6	152.4	(Prefix)-F 06-S-VO90-24	27	685.80	27	685.80

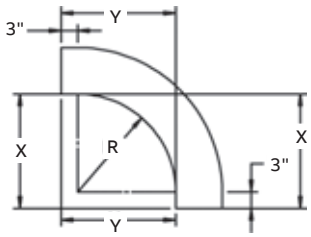
* Specify prefixes MALT, MSPT, MSHT or MSST.

90° Vertical inside bend

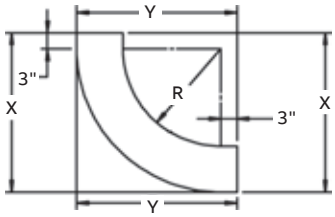
Radius (R)		Width (W)			Dimensions			
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VI90-12	15¾	400.05	15¾	400.05
		3	76.2	(Prefix)-F 03-S-VI90-12	16½	419.10	16½	419.10
		4	101.6	(Prefix)-F 04-S-VI90-12	16⅞	428.63	16⅞	428.63
		6	152.4	(Prefix)-F 06-S-VI90-12	16⅞	428.63	16⅞	428.63
24	609.6	1.5	38.1	(Prefix)-F 01-S-VI90-24	27¾	958.85	27¾	704.85
		3	76.2	(Prefix)-F 03-S-VI90-24	28½	723.90	28½	723.90
		4	101.6	(Prefix)-F 04-S-VI90-24	28⅞	733.43	28⅞	733.43
		6	152.4	(Prefix)-F 06-S-VI90-24	28⅞	733.43	28⅞	733.43

* Specify prefixes MALT, MSPT, MSHT or MSST.

90° Outside bend



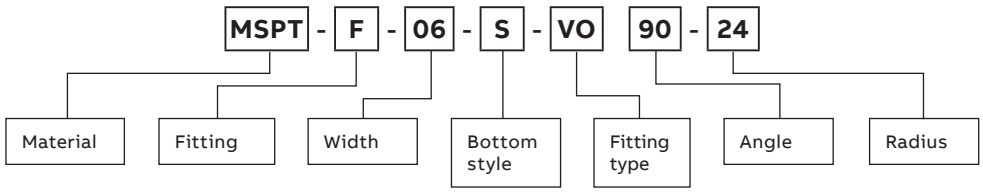
90° Inside bend



Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



Channel tray fittings

60° Vertical outside/inside bend fittings

60° Vertical outside bend

Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VO60-12	14⅞	377.83	8⅝	219.08	9⅞	250.83
		3	76.2	(Prefix)-F 03-S-VO60-12	14⅞	377.83	8⅝	219.08	9⅞	250.83
		4	101.6	(Prefix)-F 04-S-VO60-12	14⅞	377.83	8⅝	219.08	9⅞	250.83
		6	152.4	(Prefix)-F 06-S-VO60-12	14⅞	377.83	8⅝	219.08	9⅞	250.83
24	609.6	1.5	38.1	(Prefix)-F 01-S-VO60-24	25¼	641.35	14⅝	371.48	16⅞	428.63
		3	76.2	(Prefix)-F 03-S-VO60-24	25¼	641.35	14⅝	371.48	16⅞	428.63
		4	101.6	(Prefix)-F 04-S-VO60-24	25¼	641.35	14⅝	371.48	16⅞	428.63
		6	152.4	(Prefix)-F 06-S-VO60-24	25¼	641.35	14⅝	371.48	16⅞	428.63

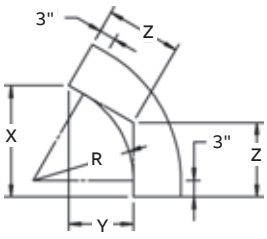
* Specify prefixes MALT, MSPT, MSHT or MSST.

60° Vertical inside bend

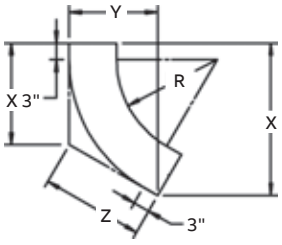
					Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VI60-12	15½	393.70	9	228.60	10¼	260.35
		3	76.2	(Prefix)-F 03-S-VI60-12	16⅛	409.58	9¼	234.95	10¾	273.05
		4	101.6	(Prefix)-F 04-S-VI60-12	16¼	412.75	9⅜	238.13	10⅞	276.23
		6	152.4	(Prefix)-F 06-S-VI60-12	16⅜	415.93	9½	241.30	11	279.40
24	609.6	1.5	38.1	(Prefix)-F 01-S-VI60-24	26	660.40	15	381.00	17¼	438.15
		3	76.2	(Prefix)-F 03-S-VI60-24	26½	673.10	15¼	387.35	17⅝	447.68
		4	101.6	(Prefix)-F 04-S-VI60-24	26¾	679.45	15⅜	390.53	17¾	450.85
		6	152.4	(Prefix)-F 06-S-VI60-24	26¾	679.45	15½	393.70	17⅞	454.03

* Specify prefixes MALT, MSPT, MSHT or MSST.

60° Outside bend



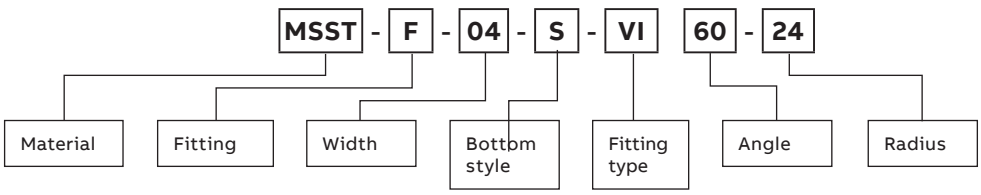
60° Inside bend



Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



Channel tray fittings

45° Vertical outside/inside bend fittings

45° Vertical outside bend

Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VO45-12	13⅝	346.08	5⅝	142.88	8	203.20
		3	304.8	(Prefix)-F 03-S-VO45-12	13⅝	346.08	5⅝	142.88	8	203.20
		4	762	(Prefix)-F 04-S-VO45-12	13⅝	346.08	5⅝	142.88	8	203.20
		6	914.4	(Prefix)-F 06-S-VO45-12	13⅝	346.08	5⅝	142.88	8	203.20
24	914.4	1.5	152.4	(Prefix)-F 01-S-VO45-24	22⅛	561.98	9⅛	231.78	12⅞	327.03
		3	76.2	(Prefix)-F 03-S-VO45-24	22⅛	561.98	9⅛	231.78	13	330.20
		4	101.6	(Prefix)-F 04-S-VO45-24	11	279.40	11	279.40	13	330.20
		6	152.4	(Prefix)-F 06-S-VO45-24	11	279.40	11	279.40	13	330.20

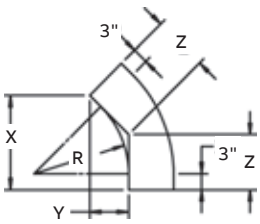
* Specify prefixes MALT, MSPT, MSHT or MSST.

45° Vertical inside bend

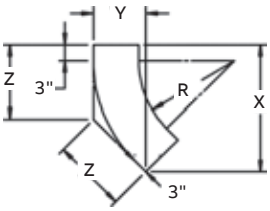
Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VI45-12	13⅝	346.08	5⅝	142.88	8	203.20
		3	304.8	(Prefix)-F 03-S-VI45-12	13⅝	346.08	5⅝	142.88	8	203.20
		4	762	(Prefix)-F 04-S-VI45-12	13⅝	346.08	5⅝	142.88	8	203.20
		6	914.4	(Prefix)-F 06-S-VI45-12	13⅝	346.08	5⅝	142.88	8	203.20
24	914.4	1.5	152.4	(Prefix)-F 01-S-VI45-24	22⅛	561.98	9⅛	231.78	12⅞	327.03
		3	76.2	(Prefix)-F 03-S-VI45-24	22⅛	561.98	9⅛	231.78	13	330.20
		4	101.6	(Prefix)-F 04-S-VI45-24	11	279.40	11	279.40	13	330.20
		6	152.4	(Prefix)-F 06-S-VI45-24	11	279.40	11	279.40	13	330.20

* Specify prefixes MALT, MSPT, MSHT or MSST.

45° Outside bend



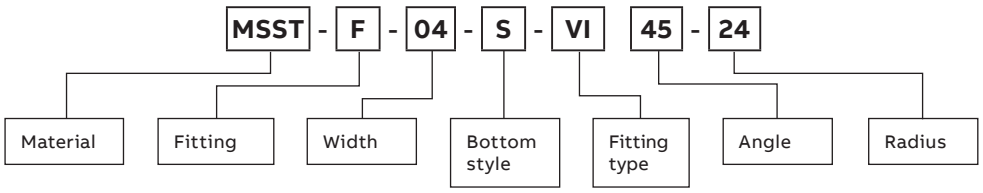
45° Inside bend



Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



Channel tray fittings

30° Vertical outside/inside bend fittings

30° Vertical outside bend

Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VO30-12	10⅛	257.18	1⅞	47.63	5¼	133.35
		3	304.8	(Prefix)-F 03-S-VO30-12	11⅝	295.28	3⅛	79.38	6⅛	155.58
		4	762	(Prefix)-F 04-S-VO30-12	11⅝	295.28	3⅛	79.38	6⅛	155.58
		6	914.4	(Prefix)-F 06-S-VO30-12	11⅝	295.28	3⅛	79.38	6⅛	155.58
24	914.4	1.5	152.4	(Prefix)-F 01-S-VO30-24	17⅝	447.68	4¾	120.65	9¼	234.95
		3	76.2	(Prefix)-F 03-S-VO30-24	17⅝	447.68	4¾	120.65	9¼	234.95
		4	101.6	(Prefix)-F 04-S-VO30-24	17⅝	447.68	4¾	120.65	9¼	234.95
		6	152.4	(Prefix)-F 06-S-VO30-24	17⅝	447.68	4¾	120.65	9¼	234.95

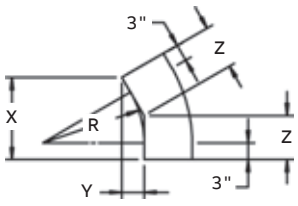
* Specify prefixes MALT, MSPT, MSHT or MSST.

30° Vertical inside bend

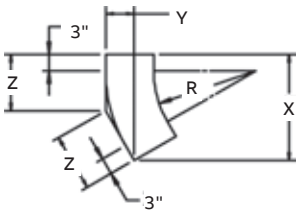
Radius (R)		Width (W)			Dimensions					
(in)	(mm)	(in)	(mm)	Cat. No.	X (in)	X (mm)	Y (in)	Y (mm)	Z (in)	Z (mm)
12	304.8	1.5	38.1	(Prefix)-F 01-S-VI30-12	10⅜	263.53	1⅞	47.63	5⅜	136.53
		3	304.8	(Prefix)-F 03-S-VI30-12	12¼	311.15	3½	88.90	6⅜	161.93
		4	762	(Prefix)-F 04-S-VI30-12	12⅜	314.33	3⅜	85.73	5⅜	136.53
		6	914.4	(Prefix)-F 06-S-VI30-12	12½	317.50	3⅜	85.73	5⅜	136.53
24	914.4	1.5	152.4	(Prefix)-F 01-S-VI30-24	18	457.20	4¾	120.65	9⅝	244.48
		3	76.2	(Prefix)-F 03-S-VI30-24	18¼	463.55	4⅞	123.83	9¾	247.65
		4	101.6	(Prefix)-F 04-S-VI30-24	18⅜	466.73	4⅞	123.83	9⅞	250.83
		6	152.4	(Prefix)-F 06-S-VI30-24	18½	469.90	5	127.00	9⅞	250.83

* Specify prefixes MALT, MSPT, MSHT or MSST.

30° Outside bend



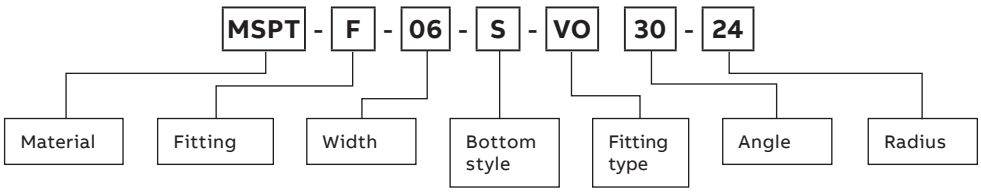
30° Inside bend



Selection guide

- Prefix: MALT (alum.), MSPT (pregalv.), MSHT (hot-dip galv.), MSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (304.8mm), 04 = 4" (762mm), 06 = 6" (914.4mm)
- Bottom style: S - solid

Fitting number selection



Channel tray covers

Cover selection guide - Tray, straight and fittings

NOTE: Cover mounting hardware must be ordered separately.

* Hot-dipped galvanized covers only available in 1500mm lengths

Tray covers

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Straight covers

- These covers provide maximum mechanical protection for cables with limited heat build up.
- Flanged covers have a ½" (12.7mm) flange.

Quantity of standard cover clamps required
Straight section - 10 ft (3.05m): 6 pieces

NOTE: When using heavy-duty cover clamps, only half the quantity of pieces are required.

Straight cover number selection

MALT **F** **03** **SFC** - **3**

Material prefix	
Aluminium	**MALT**
Pregalvanized	**MSPT**
Hot-dipped galvanized*	**MSHT**
Stainless steel 316	**MSST**

Type	
Fitting cover	**F**

Width	
1.5" (38.1mm)	**01**
3" (76.2mm)	**03**
4" (101.6mm)	**04**
6" (152.4mm)	**06**

Bottom style	
Straight flanged covers	**SFC**

Nominal	
10 ft (3.05m)	**3**
12 ft (144mm)	**144**
72 ft (21.95m)	**72**

NOTE: Cover mounting hardware must be ordered separately.

* Required for HB, VI & VO only.

† Contact your T&B representative for availability

Fitting covers

- Fitting covers are available to complete your cable channel layout.
- All fitting covers are flanged.

Quantity of standard cover clamps required
Horizontal and vertical bends: 4 pieces
Tees: 6 pieces
Crosses: 8 pieces

NOTE: When using heavy-duty cover clamps, only half the quantity of pieces are required.

Fitting cover number selection

MALT **F** **06** **HBC** **45** - **12**

Material prefix	
Aluminium	**MALT**
Pregalvanized	**MSPT**
Hot-dipped galvanized	**MSHT**
Stainless steel 316	**MSST**

Type	
Fitting cover	**F**

Width	
1.5" (38.1mm)	**01**
3" (76.2mm)	**03**
4" (101.6mm)	**04**
6" (152.4mm)	**06**

Fitting type	
Horizontal bend outside bend	**HBC**
Vertical inside bend	**VOC**
	VIC

Degree	
30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius	
12" (304.8mm)	**12**
24" (609.6mm)	**24**
Zero † radius	**0**

Closure end plate - Number selection

MALT **F** **06** **HBC** **45** - **12**

Material prefix	
Aluminium	**MALT**
Pregalvanized	**MSPT**
Hot-dipped galvanized	**MSHT**
Stainless steel 316	**MSST**

Type	
Fitting cover	**F**

Width	
1.5" (38.1mm)	**01**
3" (76.2mm)	**03**
4" (101.6mm)	**04**
6" (152.4mm)	**06**

Fitting type	
Horizontal tee	**HTC**
Horizontal cross	**HXC**

Degree	
30°	**30**
45°	**45**
60°	**60**
90°	**90**

Nominal radius	
12" (304.8mm)	**12**
24" (609.6mm)	**24**
Zero † radius	**0**

Channel tray splice plates

Standard and expansion splice plates

Selection guide

- Prefix: WALT (Aluminium), WSPT (pregalvanised), WSHT (hot-dip galvanised), WSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4mm

Standard 1.5" splice plate

Cat. No	Width (in)	Width (mm)
(Prefix)-W-01-CCS	1.5	38.1

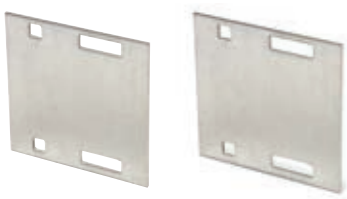
Supplied standard with each length.
Includes hardware: 2 bolts, 2 washers, ⅜" diametre.

Standard splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-03-CCS	3	76.2
(Prefix)-W-04-CCS	4	101.6
(Prefix)-W-06-CCS	6	152.4

Supplied standard with each length.
Includes hardware: 4 bolts, 4 nuts, 4 washers, ⅜" diametre.

Expansion splice plate



Cat. No.		Material
(Prefix)-W-1.5-ESP	1.5	38.1
(Prefix)-W-03-ESP	3	76.2
(Prefix)-W-04-ESP	4	101.6
(Prefix)-W-06-ESP	6	152.4

Supplied with hardware for 1.5" (38.1mm) wide channel: 2 bolts, 2 nuts, ⅜" diametre.
All other widths: 4 bolts, 2 stop nuts, 2 serrated flange nuts, 4 lock washers (stainless steel only), ⅜" diametre.

Channel tray splice plates

Wraparound and adjustable splice plates

Selection guide

- Prefix: WALT (Aluminium), WSPT (pregalvanised), WSHT (hot-dip galvanised), WSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4mm

Wraparound splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-ACS	1.5	38.1
(Prefix)-W-03-ACS	3	76.2
(Prefix)-W-04-ACS	4	101.6
(Prefix)-W-06-ACS	6	152.4

Supplied with hardware for 1.5" (38.1mm) wide channel: 2 bolts, 2 nuts, ⅜" diametre.
All other widths: 4 bolts, 4 nuts, 4 washers, ⅜" diametre.

Adjustable horizontal splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CHA	1.5	38.1
(Prefix)-W-03-CHA	3	76.2
(Prefix)-W-04-CHA	4	101.6
(Prefix)-W-06-CHA	6	152.4

Standard vertical adjustable splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CCV	1.3	33
(Prefix)-W-03-CCV	3	76.2
(Prefix)-W-04-CCV	4	101.6
(Prefix)-W-06-CCV	6	152.4

Channel tray clamps and hardware

Wraparound splice plates and clamps

Selection guide

- Prefix: WALT (Aluminium), WSPT (pregalvanised), WSHT (hot-dip galvanised), WSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4mm

Wraparound vertical adjustable splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-WAV	1.5	38.1mm
(Prefix)-W-03-WAV	3	76.2mm
(Prefix)-W-04-WAV	4	101.6mm
(Prefix)-W-06-WAV	6	152.4mm

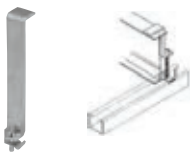
Standard hold-down clamp

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-SHC	1.5	38.1
(Prefix)-W-03-SHC	3	76.2
(Prefix)-W-04-SHC	4	101.6
(Prefix)-W-06-SHC	6	152.4

Channel expansion guide clamp

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CEG	1.5	38.1
(Prefix)-W-03-CEG	3	76.2
(Prefix)-W-04-CEG	4	101.6
(Prefix)-W-06-CEG	6	152.4

Combination hold-down/cover clamp



Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CCC	1.5	38.1
(Prefix)-W-03-CCC	3	76.2
(Prefix)-W-04-CCC	4	101.6
(Prefix)-W-06-CCC	6	152.4

Channel tray clamps and hardware

Cover clamps, endplates and channel brackets

Heavy-duty cover clamp

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-HCC	1.5	38.1
(Prefix)-W-03-HCC	3	76.2
(Prefix)-W-04-HCC	4	101.6
(Prefix)-W-06-HCC	6	152.4

Vertical adjustable splice plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CEP	1.5	38.1
(Prefix)-W-03-CEP	3	76.2
(Prefix)-W-04-CEP	4	101.6
(Prefix)-W-06-CEP	6	152.4

Channel mounting bracket

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CCB	1.5	38.1
(Prefix)-W-03-CCB	3	76.2
(Prefix)-W-04-CCB	4	101.6
(Prefix)-W-06-CCB	6	152.4

Channel-to-cable-tray plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CCT	1.5	38.1
(Prefix)-W-03-CCT	3	76.2
(Prefix)-W-04-CCT	4	101.6
(Prefix)-W-06-CCT	6	152.4

Channel tray brackets and hangers

Reducer plates, base plates and mounting brackets

Selection guide

- Prefix: WALT (Aluminium), WSPT (pregalvanised), WSHT (hot-dip galvanised), WSST (stainless steel)
- Inside channel widths: 01 = 1.5" (38.1mm), 03 = 3" (76.2mm), 04 = 4" (101.6mm), 06 = 6" (152.4mm

Channel straight reducer plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-03-01-RSP	3 to 1	38.1
(Prefix)-W-04-01-RSP	4 to 1	76.2
(Prefix)-W-06-01-RSP	6 to 1	101.6
(Prefix)-W-04-03-RSP	4 to 3	101.6
(Prefix)-W-06-03-RSP	6 to 3	101.6
(Prefix)-W-06-04-RSP	6 to 4	152.4

Channel-to-floor base plate

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-CBP	1.5	38.1
(Prefix)-W-03-CBP	3	76.2
(Prefix)-W-04-CBP	4	101.6
(Prefix)-W-06-CBP	6	152.4

Channel-to-tray mounting bracket

Cat. No.	Width (in)	Width (mm)
(Prefix)-W-01-TCB	1.5	38.1
(Prefix)-W-03-TCB	3	76.2
(Prefix)-W-04-TCB	4	101.6
(Prefix)-W-06-TCB	6	152.4

Single channel hanger

Cat. No.	Width (in)	Width (mm)
WSPT-W-06-CCH	For use with all widths	For use with all widths
WSHT-W-06-CCH		
WSST-W-06-CCH		

NOTE: Designed for use with ½" threaded rod.

T&B® Distributors
Africa & the Middle East

ABB Africa

Algeria
Alger, Tel: +213 2 1794051

Angola
Luanda, Tel: +244 222 356667 / 2858

Cameroon
Douala, Tel: +237 33 378253

Côte d'Ivoire
Abidjan, Tel: +225 21 217575

Democratic Republic of Congo
Kinshasa, Tel: + 243 810 037549
Lubumbashi, Tel: + 243 997 313013

Egypt
Cairo, Tel: +20 2 26251609

Ghana
Accra, Tel: +233 0206 203231

Kenya
Nairobi, Tel: +254 20 3579817

Mauritius
Moka, Tel: +230 4333036

Morocco
Casablanca, Tel: +212 522 349000

Mozambique
Maputo, Tel: +258 21 320195

Namibia
Windhoek, Tel: : +264 61 240341

Nigeria
Lagos, Tel: +234 12 705669

Senegal
Dakar, Tel: +221 33 8699696

South Africa
Johannesburg, Tel: +27 10 2025000

Tanzania
Dar Es Salaam,
Tel: +255 22 2864131 / 2

Tunisia
Tunis, Tel: +216 71 194440

Zambia
Lusaka, Tel: +260 211 295814
Copperbelt, Tel: +260 211 295814

Zimbabwe
Harare, Tel: +263 4 369070 / 5

Middle - East & Pakistan

Bahrain
Manama, Tel: +973 1 7810666

Iraq
Baghdad, Tel: +964 7 706702065

Jordan
Amman, Tel: +962 6 5507733

Kuwait
Kuwait City, Tel: +965 222 77888

Lebanon
Beirut, Tel: +961 1 983724

Oman
Muscat, Tel: +968 24 666500

Pakistan
Lahore, Tel: +92 42 32560700

Qatar
Doha, Tel: +974 4 4253888

Saudi Arabia
Al Khobar, Tel: +966 13 8063777
Riyadh: +966 11 4845600
Jeddah: +966 12 2242700

UAE
Dubai, Tel: +971 4 3147500
Abu Dhabi, Tel: +971 2 4938000

www.abb.com

—

Moving forward Thomas & Betts's business activities in the Middle East and Africa are being integrated into ABB. ABB is a pioneering technology leader that works closely with utility, industry, transportation and infrastructure customers to write the future.

Appendix

Cable tray quote specification requirements

1) Type of material/finish:

Aluminum:
AH - H style
AU (fittings only) - U style

Steel:
SP - Pregalvanized
SH - Hot-dipped
SS - 316 Stainless
NM - Fiberglass

Application:

☐ Interior ☐ Exterior ☐ Combined

2) NEMA class of the tray:

8A 8B 12A 12B 12C 16A 16B 16C 20A 20B 20C

3) If specified NEMA class rating is not known, please answer the following two questions:

a) How many pounds per foot does the cable tray need to support?

_____

_____

b) How often is the tray supported?

Both the "pounds per foot" and "how often the tray is supported" must be filled out if the NEMA class is unknown.

_____

_____

4) Siderail height:

The side rail height is defined as the outside height of the tray. The load depth is the internal dimension of the tray.

Aluminum:
4" (101.6mm)
5" (127mm)
6" (152.4mm)
7" (177.8mm)
8" (203.2mm)*

All steel:
3⅝" (92.1mm)
4" (101.6mm)
5" (127mm)
6" (152.4mm)
7" (177.8mm)

5) Width of tray:

Available widths:
6" (152.4mm)
9" (228.6mm)
12" (304.8mm)
18" (457.2mm)
24" (609.6mm)
30" (762mm)
36" (914.4mm)
42" (1,0066.8mm)*

6) Bottom style of tray: If ladder, rung spacing:

Ladder 6" (152.4mm)
Solid 9" (228.6mm)
Ventilated 12" (304.8mm)
18" (457.2mm)

7) Length of tray:

Aluminum:
120" or 10 ft (3.04m)
144" or 12 ft (3.66m)
240" or 20 ft (6.10m)
288" or 24 ft (7.32m)
360" or 30 ft (9.14m)*

Steel:
20" or 10 ft (0.5m)
144" or 12 ft (3.66m)
240" or 20 ft (6.10m)
288" or 24 ft (7.32m)

8) Fitting type:

HB - Horizontal bend
HT - Horizontal tee
HX - Horizontal cross
HYL - Horizontal wye left
HYR - Horizontal wye right
RT - Horizontal reducing tee
ET - Horizontal expanding tee
EX - Horizontal expanding cross
HLR - Horizontal left-hand reducer
HSR - Horizontal straight reducer
HRR - Horizontal right-hand reducer
CS - Cable support fitting
VI - Vertical inside bend
VO - Vertical outside bend
VTU - Vertical tee up
VTD - Vertical tee dow

9) Radius of fitting:

12" (304.8mm)
24" (609.6mm)
36" (914.4mm)
48" (1,219.2mm)

Accessories:

☐ Stainless steel hardware ☐ Marine rungs ☐ Dividers

10) If covers are needed, ask for the type of cover:

SFC - solid flanged cover
SNC - solid non-flanged cover
VFC - ventilated flanged cover
PFC - peaked flanged cover (peaked covers available for some fittings)

11) Clarify any additional accessories needed.

Each section of tray and each fitting comes with one pair of splice plates and hardware, two pairs for tees, three pairs for crosses.

* Select series only

1) Type of material/finish:

Aluminum:
AH - H style
AU (fittings only) - U style

Steel:
SP - Pregalvanized
SH - Hot-dipped
SS - 316 Stainless
NM - Fiberglass

Application:

☐ Interior ☐ Exterior ☐ Combined

2) NEMA class of the tray:

8A 8B 12A 12B 12C 16A 16B 16C 20A 20B 20C

3) If specified NEMA class rating is not known, please answer the following two questions:

a) How many pounds per foot does the cable tray need to support?

_____

_____

b) How often is the tray supported?

Both the "pounds per foot" and "how often the tray is supported" must be filled out if the NEMA class is unknown.

_____

_____

4) Siderail height:

The side rail height is defined as the outside height of the tray. The load depth is the internal dimension of the tray.

Aluminum:
4" (101.6mm)
5" (127mm)
6" (152.4mm)
7" (177.8mm)
8" (203.2mm)*

All steel:
3⅝" (92.1mm)
4" (101.6mm)
5" (127mm)
6" (152.4mm)
7" (177.8mm)

5) Width of tray:

Available widths:
6" (152.4mm)
9" (228.6mm)
12" (304.8mm)
18" (457.2mm)
24" (609.6mm)
30" (762mm)
36" (914.4mm)
42" (1,0066.8mm)*

6) Bottom style of tray: If ladder, rung spacing:

Ladder 6" (152.4mm)
Solid 9" (228.6mm)
Ventilated 12" (304.8mm)
18" (457.2mm)

7) Length of tray:

Aluminum:
120" or 10 ft (3.04m)
144" or 12 ft (3.66m)
240" or 20 ft (6.10m)
288" or 24 ft (7.32m)
360" or 30 ft (9.14m)*

Steel:
20" or 10 ft (0.5m)
144" or 12 ft (3.66m)
240" or 20 ft (6.10m)
288" or 24 ft (7.32m)

8) Fitting type:

HB - Horizontal bend
HT - Horizontal tee
HX - Horizontal cross
HYL - Horizontal wye left
HYR - Horizontal wye right
RT - Horizontal reducing tee
ET - Horizontal expanding tee
EX - Horizontal expanding cross
HLR - Horizontal left-hand reducer
HSR - Horizontal straight reducer
HRR - Horizontal right-hand reducer
CS - Cable support fitting
VI - Vertical inside bend
VO - Vertical outside bend
VTU - Vertical tee up
VTD - Vertical tee dow

9) Radius of fitting:

12" (304.8mm)
24" (609.6mm)
36" (914.4mm)
48" (1,219.2mm)

Accessories:

☐ Stainless steel hardware ☐ Marine rungs ☐ Dividers

10) If covers are needed, ask for the type of cover:

SFC - solid flanged cover
SNC - solid non-flanged cover
VFC - ventilated flanged cover
PFC - peaked flanged cover (peaked covers available for some fittings)

11) Clarify any additional accessories needed.

Each section of tray and each fitting comes with one pair of splice plates and hardware, two pairs for tees, three pairs for crosses.

—

* Select series only

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Appendix

Catalog number index

Additional information
We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

US
ABB Installation Products Inc.
Electrification Business
860 Ridge Lake Blvd.
Memphis, TN 38120
+1 901-252-5000

www.tnb.abb.com

9AKK107045A1214 REV A 09.2019