

Data Center Modernization?

YEP

 **GraybaR®** **does that.**

PRODUCT GUIDE



PDU

Rack PDUs

APC

APC Netshelter rPDU 9000 and 10000 Series span several ranges of APC Rack PDUs. These PDUs are designed for data centers and IT managers that demand the most powerful features out of their rack PDU platforms for high density environments and demanding IT infrastructures.

**eConnect® PDUs**

Chatsworth Products (CPI)



Provides cabinet-level power management, environmental monitoring and electronic access in hyperscale, multi-tenant and enterprise data centers with a wide range of power configurations with locking C13 and C19 outlets. Support up to 48 PDUs, attached sensors and electronic locks from a single network connection.

Pro3X PDU

Legrand

Brings together the best features and functionality from Legrand's Server Technology and Raritan® power distribution solutions into one intelligent PDU without sacrificing the quality, functionality, or uptime that customers come to expect from Server Technology.

**PX Intelligent Rack PDUs**

Legrand

With monitoring features that spot problems in advance and physical design elements that adapt to the toughest conditions, our solution protects your critical load under any circumstances.

**Server Tech HDOT Cx Rack PDUs**

Legrand



With this new Cx outlet, you get two in one; a C13 and C19, thus the Cx outlet accommodates both C14 and C20 plugs. This reduces complexity and allows for the selection process to be simplified.

Power

Panduit



Panduit power distribution, environmental, and connectivity hardware products improve availability, scalability, power, cooling efficiency, and product quality, which also minimizes network downtime and increases data center productivity.

Geist PDUs

Vertiv



Geist rPDUs expand on the power distribution capabilities of the UPS while also enabling other important monitoring and management functions.

POWER MANAGEMENT

SINGLE PHASE AND 3 PHASE UPS

Uninterruptible Power Supply (UPS)

APC



Intelligent and efficient network power protection from entry level to scalable runtime. Ideal UPS for servers, point-of-sale, routers, switches, hubs and other network devices.

Symmetra PX

APC



A high-performance, 3-phase, modular, scalable, power protection solution with industry-leading efficiency, capacity, and performance for medium to large data centers.

Liebert UPS Systems

Vertiv



Vertiv UPS solutions for network closets are built to maximize flexibility, scalability, and efficiency with standardized designs built around common technology building blocks.



InRow Cooling

APC

InRow Cooling units are designed to be closely coupled to the IT heat load. Efficiency is improved by reducing the distance required to move air, minimizing hot air recirculation and increasing sensible cooling capacity; this results in a savings of 30-50% over traditional data center cooling systems, even in high density applications.



Rack Air Distribution

APC



Rack-based cooling products are specifically integrated in or on individual racks enclosures to solve inadequate air distribution problems.

Snap-In Filler Panel

Chatsworth Products (CPI)



The Snap-In Filler Panel greatly reduces bypass airflow and blocks recirculation of hot exhaust air from the back of equipment to the front of equipment, helping to improve on cooling costs.

Air Dam

Chatsworth Products (CPI)

The Air Dam blocks airflow around the sides and top of the equipment mounting space, so cold air passes through equipment and hot air does not recirculate around equipment.



Built To Spec Kit

Chatsworth Products (CPI)



The Build to Spec (BTS) Kit includes all of the components needed to construct a ceiling-supporting or cabinet-supported duct system to capture and direct airflow in the contained aisle.

Vertical Exhaust Duct

Chatsworth Products (CPI)

The Vertical Exhaust Duct (VED) attaches to the top of the ZetaFrame™ Cabinet to provide a sealed pathway for hot air from the top of the cabinet to an overhead drop ceiling as part of a closed hot air return.



Contain-IT Flex Aisle Containment

Legrand



With airflow integrity greater than 97.5% the solution eliminates bypass airflow and recirculation and helps mitigate over temperature alarms or equipment shut downs due to thermal over-load.

VRC-S Self-Contained IT Rack Cooling Unit

Vertiv

The unit comes pre-charged with refrigerant and mounts in the rack, offering up to 3.5kW of energy-efficient cooling.



CABLE INFRASTRUCTURE

CABLE MANAGEMENT

NetShelter Cable Management

APC

A comprehensive selection of accessories designed to organize power or data cables within a rack or enclosure. Solutions range from simple cable management rings, to vertical or horizontal organizers, to troughs and ladders.



Motive®

Chatsworth Products (CPI)

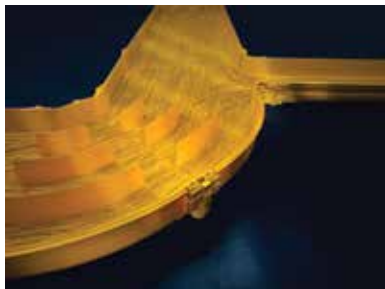


Features an extrusion-based central track system and includes four tool-less cable management accessories that allow for direct support of fiber and cables with optimal separation and airflow for higher wattage Power over Ethernet (PoE).

FIBERGUIDE Cable Management Solutions

CommScope

FiberGuide is a raceway system designed to protect and route fiber optic patch cords, multi-fiber cable assemblies and intra-facility fiber cable to and from fiber splice enclosures, fiber distribution frames and fiber optic terminal devices.



M-Series Cable Management

Hubbell Premise Wiring

Ample cable supports prevent cable kinks, provide a generous bend radius and an organized cable network.



Cable Management

Panduit

The comprehensive offering of vertical cable management, horizontal cable management, and rack solutions reduces the space required to route, manage, and protect high-cable capacities for every application, both current and future.



Pathways

Panduit

Segregate, route, and protect fiber optic and copper cabling from distribution areas to equipment rack and cabinets.



CABINETS

NetShelter SX Enclosures

APC

The NetShelter SX is a multi-functional rack enclosure designed to meet current IT market trends and applications ranging from high density computing and networking to broadcast and audio-video. Our racks come in 4 post, wall-mount, and multi-tenant options.



ZetaFrame™ Cabinet

Chatsworth Products (CPI)



A highly engineered data center cabinet solution that delivers fast built-to-order configurability, industry-leading strength and scalability, regardless of the application.

ZetaFrame™ Cabinet with Vertical Exhaust Duct

Chatsworth Products (CPI)



Optimize cooling system performance by managing airflow to isolate supply and return airflow through the cabinet and Vertical Exhaust Duct.

Standard Rack, 3" Deep

Chatsworth Products (CPI)

Standard Rack, 3" Deep is a high quality, cost-effective storage solution for patch panels and network switches that use less floor space than a cabinet or a four-post rack.



Adjustable Rail Server Rack

Chatsworth Products (CPI)

Provides a sturdy, feature-rich solution for supporting rack-mount network, data storage equipment in data centers. Rear square-punched mounting rails adjust in depth.



Optical Distribution Frames - FACT®

CommScope

CommScope's FACT® optical distribution frame (ODF) is a fully front-accessible solution that maximizes usable density and supports future growth of a data center's fiber infrastructure. This compact, modular, high-density solution delivers superior cable management for high fiber counts and accelerates deployment with intuitive, tool-less plug-and-play connectivity.



EIA Accessories

Legrand

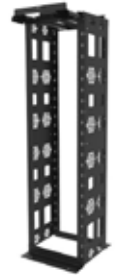


Legrand offers universal cabinet accessories for cable management, equipment support, thermal management, overhead racks, mounting hardware, and grounding kits.

MightyMo 6 Enhanced Rack

Legrand

Perfect for building network applications when combined with the Q-Series Vertical Manager.



Mighty Mo 20 Rack System

Legrand



The Mighty Mo 20 offers you the flexibility, cable management, and efficiency needed across any size network.

CABLE INFRASTRUCTURE

MightyMo Overhead Cable Pathway Rack

Legrand



Overhead rack to support additional rack space above existing racks or cabinets. Easily installs to wire cable tray, tubular runway, or threaded rod.

T-Series Cabinet

Legrand

T-Series is built on a fully welded, tubular steel frame that offers a 4,000 static and 3,500 dynamic load rating, making it ideal for "Rack and Stack" applications in which cabinets are loaded with equipment off-site and rolled into place fully configured.



FlexFusion

Panduit

Configure to order, FlexFusion™ Cabinets are ideal for network or server equipment that provides maximum flexibility and the capacity to manage high cable density in data center, enterprise or co-location deployment.



VR Rack

Vertiv

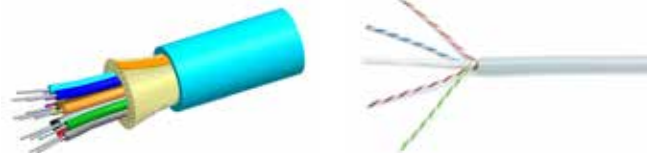
Built with reliable engineering and is designed for simple and easy configuration.



CABLING SOLUTIONS

SYSTIMAX® Copper and Fiber Structured Cabling

CommScope



SYSTIMAX is CommScope's comprehensive copper and fiber structured cabling solution. Combining high-bandwidth data connectivity and power, the solution is engineered for long-term performance that anticipates future network changes and convergence.

Fiber Building Entrance Solutions

CommScope

CommScope has engineered its building entrance cabinet line to solve the most demanding requirements of an advanced building entrance strategy.



GigaSPEED X10D Copper Solutions

CommScope



GigaSPEED X10D consist of Category 6A copper cables, patch panels, information outlets and patch cords designed to perform beyond the standards.

Copper Systems

Panduit

Panduit offers a full line of innovative copper products that support all of today's most common IP applications including PoE and Wireless technologies. Get the greatest value on the market, guarantee future reliability, and provide the foundation for your network's growth by choosing from our copper jack modules, patch cords, patch panels, punchdown systems, cable, and pre-terminated solutions.



CONNECTIVITY SOLUTIONS

FX UHD Cassettes and Frames**Belden**

In high-density Data Center applications, FX UHD Cassettes and Frames support up to 72 LC Duplex or MPO ports per 19" rack unit.

**Fiber Patch Cords****Belden**

Uncomplicated, robust and versatile Patch Cords offer superior quality and performance.

**MPO Fiber Trunks****Belden**

Industry-leading low-loss MPO Trunks are the foundation of faster pre-terminated fiber connectivity.

**Copper Trunk Assemblies****Belden**

Copper Trunk Cable Assemblies are factory terminated and tested to reduce installation time by up to 90%.

**MPO Fiber Trunks****CommScope****Fiber Patch Cords****CommScope**

Fiber optic patch cords, multimode and singlemode options, various lengths, jacket colors.

**G2 Fiber Solutions: Panels, Modules, Cassettes****CommScope**

CommScope's G2 panels, modules, and cassettes' broad range of solutions meet the needs of any in-building network, no matter the size. In the telecom room, the panels, modules, and cassettes allow for easy configurations and quick installations.

Fiber Connectors and Adapters**CommScope**

Fiber optic connectors and adapters, in simplex and duplex designs, multimode and singlemode options.

CABLE INFRASTRUCTURE

Enhanced High Density (EHD) Solutions

CommScope



EHD fiber solutions are designed for today's more crowded and demanding environments, including hyperscale and large enterprise data centers. Available in 1U, 2U or 4U configurations, they support 72 duplex LC ports or 72 MPO ports per RU.

Compact High Density (CHD) Solutions

CommScope



CHD fiber solutions have the same densities as EHD, supporting 72 duplex LC ports or 72 MPO ports per RU. CHD offers more flexibility with 12 fiber modules, adapter packs and cassettes.

EDGE8® Housing

Corning



EDGE8 HD housings mount in 19-in. racks or cabinets and provide industry-leading, ultra-high-density connectivity when combined with EDGE8 modules, panels, harnesses, trunks, and jumpers.

EDGE8 MTP® Trunks

Corning

EDGE8 MTP trunks are preterminated cables with ultra-low-loss 8-fiber MTP PRO connectors.



EDGE8 MTP to MTP Jumper

Corning

The EDGE8 8-fiber MTP jumper allows for seamless migration to higher data rates in the data center when used in conjunction with EDGE8 pinned trunks.



EDGE8 Harnesses

Corning

An EDGE8 harness is an ultra-slim 8-fiber (2.0 mm) preterminated cable with an MTP PRO connector on one end and four LC duplex connectors on the other.



EDGE8 MTP TO LC Duplex Modules

Corning

EDGE8 modules provide the interface between the MTP connector on the trunk and the LC duplex jumpers that connect directly into the electronics or as a cross-connect in the main distribution area (MDA). LC duplex adapters on EDGE8 modules feature hinged visual-fault-locator (VFL) compatible shutters that move up and out of the way when the connector is inserted.



EDGE™ Base-8 MTP to LC Duplex Modules

Corning

The Base-8 MTP® to LC duplex module is an 8-fiber module in the standard EDGE™ module footprint. This solution is well suited for customers who want to migrate to an 8-fiber solution, while still utilizing an existing EDGE footprint.



EDGE8 Port Breakout Module

Corning

The EDGE8 port breakout module with MTP PRO connector enables conversion from a single 4-channel parallel optic port (such as 40GSR4, QSFP) to a patch panel representation with four LC duplex ports, used in a main distribution area.



EDGE8® MTP® Adapter Panels

Corning



EDGE8 MTP adapter panels are pass-through panels that provide a simple interface to connecting MTP connectors.

EDGE8 Tap Modules

Corning



EDGE8 tap modules enable passive optical tapping of the network while reducing downtime and link loss and increase rack space utilization and density compared to other optical tap options.

EDGE Reverse Polarity Uniboot Duplex Jumpers

Corning

EDGE reverse polarity uniboot duplex jumpers allow for the quick-and-easy conversion from a TIA-568 A-B polarity to a TIA-568 A-A polarity without exposing the fibers or needing any tools. This jumper comes with a straight-through polarity from the factory, but can be converted to a flipped jumper without the use of tools.



EDGE Solutions HD Housing

Corning

EDGE solutions HD housings are mountable in 19-in racks or cabinets and provide industry-leading high-density connectivity when combined with EDGE modules, panels, harnesses, trunks, and jumpers.



EDGE™ Trunks

Corning

EDGE MTP trunks are preterminated cables with MTP PRO connectors. Available in MTP to MTP or MTP to LC configurations, these trunks provide the backbone of the passive network infrastructure and enable rapid deployment for your campus LAN or data center facility.



EDGE MTP Jumpers

Corning

EDGE MTP12-Fiber jumpers create a connection between MTP adapter panels, conversion modules, and electronics, typically providing connectivity within the rack or within the row.



EDGE Harnesses

Corning

EDGE staggered and non-staggered harnesses are ultra-slim 12-fiber preterminated cable with an MTP® PRO connector on one end and six LC uniboot connectors on the other.



EDGE Modules

Corning

EDGE modules provide the interface between the MTP connector on the trunk and the LC duplex jumpers that connect directly into the electronics. LC duplex adapters on EDGE modules feature hinged VFL-compatible shutters that move up and out of the way when the connector is inserted.



EDGE Mesh Modules

Corning

EDGE 4x4 mesh modules are used to break out four-channel parallel ports to create a duplex fabric, eliminating the need to break the MTP into LC connectivity.



CABLE INFRASTRUCTURE

EDGE™ MTP® Adapter Panels

Corning

EDGE MTP adapter panels provide a simple interface to mate MTP connectors.



EDGE Tap Modules

Corning

EDGE tap modules enable passive optical tapping of the network while reducing downtime and link loss, and increasing rack space utilization and density compared to other optical tap options.



FCR HD Rack Mount Enclosure System

Hubbell Premise Wiring



High density cassette storage and management.

FIBERHUBB™ End-to-End Digital Infrastructure

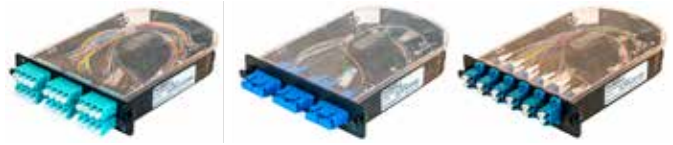
Hubbell Premise Wiring



Enclosures, MPO trunks, cassettes, panels, adapters, connectors and cables: FIBERHUBB.

FIBERHUBB OC Series Splice Cassettes

Hubbell Premise Wiring



Today, more enterprise data centers are taking advantage of the convenience of splice cassettes as part of their fiber management strategies. These innovative devices deliver many benefits, including protecting the fiber and consolidating connections, helping manage cable complexity.

HCL Patch Cords

Hubbell Premise Wiring

HCL series low diameter patch cords from Hubbell reduce cable congestion associated with high density installation in data centers, and improve airflow, cooling, and cord management while maintaining performance.



Infinium Family Data Center Solutions

Legrand



Redefined performance in the data center, delivering the most advanced network systems: Infinium™ Quantum, Ultra, and Core. While all others have stopped at Ultra Low Loss, Legrand has taken Fiber to a Quantum level.

Opt-X® HDX Fiber Distribution Frame

Leviton Network Solutions

The HDX Fiber Distribution Frame is a main cross-connect or interconnect patching frame for all fiber channels in the data center. One frame consolidates patching into an incredibly small footprint, with capacity for more than 3,168 LC fibers, or 15,552 fibers using 24-fiber MTP® connections.



Opt-X® HDX Base8 MTP® Fiber Cassettes

Leviton Network Solutions

HDX Unity 10G Breakout Cassettes are pre-terminated, pre-tested, and come with 12- or 24-fiber MTP connections. Cassettes are custom-built to your specifications — select from LC or MTP connectors for 10, 40, 100, 200 and 400G b/s applications.



Opt-X HDX Base12 MTP Fiber Cassettes

Leviton Network Solutions

HDX Enterprise MTP Cassettes are pre-terminated, pre-tested, and come with 12-fiber MTP connections. Cassettes are custom-built to your specifications — select from LC or MTP connectors for 10, 40, 100G b/s applications.



Opt-X HDX Base24 MTP Fiber Cassettes

Leviton Network Solutions

HDX Unity MTP Cassettes are engineered for the most demanding data center networks, where extended reach and multiple connection points are required. They are pre-terminated, pre-tested, and come with 12- or 24-fiber MTP connections. Cassettes are custom-built to your specifications — select from LC or MTP connectors for 10, 40, 100, 200 or 400 Gb/s applications.



Opt-X UHDX Fiber Enclosures

Leviton Network Solutions

Opt-X UHDX Fiber Rack-Mount Enclosures provide ultra high density patching of up to 144 LC fibers per RU for inter-connects or cross-connects between backbone horizontal cable and active equipment while using minimum rack space. Enclosures are available in 1, 2 and 4RU sizes to allow for easy field termination of connectors or installation of pre-terminated solutions.



Opt-X UHDX Fiber Panels

Leviton Network Solutions



Opt-X UHDX high-density 1RU Angled Panels provide ultra high density patching of up to 144 LC fibers per RU for inter-connect or cross-connect between backbone horizontal cable and active equipment while using minimum rack space. Available in both flat and angled options, they provide open access to patch cords without the need of any horizontal patch cord cable management.

Opt-X HDX Fiber Splice Modules

Leviton Network Solutions

Protect and organize heat-shrink fusion spliced fibers inside any HDX fiber enclosure, panel or frame. Splice modules are available in both LC and MTP configurations and provide optimal organization and slack management of fibers. The patented, pre-installed fiber pigtail allows for either individual or ribbon splicing to simplify product selection and speed deployments.



Opt-X HDX Fiber Adapter Plates

Leviton Network Solutions

HDX adapter plates connect to field-terminated backbone cabling or pre-terminated trunks. Adapter plates are offered in LC shuttered, SC, and MTP styles in 6, 12, or up to 72/144 fiber configurations.



Opt-X Unity Cabling System

Leviton Network Solutions

Opt-X Unity is a system of ultra low loss fiber trunks, harnesses and cassettes using best-in-class MTP multifiber connectors. Designed for extended reaches and applications requiring multiple connection points, Opt-X Unity provides a single, simple connectivity solution that reduces cost and saves time by enabling the reuse of your fiber backbone.



CABLE INFRASTRUCTURE

Opt-X® Enterprise DC Cabling System

Leviton Network Solutions

Opt-X Enterprise DC fiber cabling and connectivity system pairs high-quality, guaranteed performance with a user-friendly design to support fast and easy installations and maintenance. This low-loss connectivity solution is ideal for 10G and faster network speeds.



Opt-X SJP Fiber Trunks

Leviton Network Solutions



Factory-terminated and tested fiber trunk cables connect central patching locations to zones or pods. Available terminated with both modular (MTP®) and discrete connectors, these 12-through 144-fiber trunks are custom built in any length to meet specific applications.

Premium Plus Fiber Patch Cords

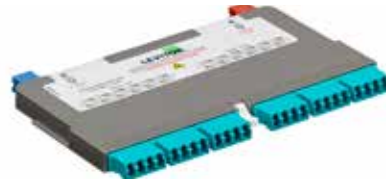
Leviton Network Solutions

Leviton Premium Plus fiber patch cords feature the patented LC Unibody connector with Spectro-Link Technology. Where fast deployment and simple maintenance are critical Spectro-Link™ Technology makes it easy to change polarity, insert or remove the patch cord when connecting to equipment or working in high density patching areas.



Opt-X HDX TAP Module

Leviton Network Solutions



HDX TAP Cassettes provide real-time monitoring in the network or SAN environment. The traffic analysis point (TAP) is a passive device that enables channel traffic to be reviewed for anomalies in network security or performance. In the HDX cassette, the TAP is part of the structured cabling environment and eliminates the need for an additional panel to deploy the TAPs.

Fiber Optic Systems

Panduit

Panduit provides advanced bandwidth and mission-critical physical infrastructures with comprehensive fiber optic systems that deliver high performance, reliability, and scalability. Take advantage of our fiber optic cable, connectors, adapter modules, adapter panels, cassettes, enclosures, patch cords, cable assemblies, cable distribution products, and accessories.



DCIM

imVISION Data Center Solution

CommScope



Automated Infrastructure Management (AIM) platform that delivers actionable, real-time data and performance insights.

Data Center Monitoring

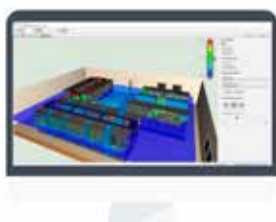
Panduit



Products such as IntraVUE™ Software and SynapSense® Monitoring Systems, deliver optimal solutions for documenting and monitoring your plant floor, data centers, and other Network Infrastructure applications.

EcoStruxure IT

Schneider Electric



A cloud-based, vendor agnostic, secure solution that enables wherever-you-go monitoring and visibility into your IT physical infrastructure. EcoStruxure IT Expert provides real-time monitoring, benchmarking, assessment, and instant fault notification and escalation provide the visibility and insights you need to proactively manage IT infrastructure.

Trellis Power Insight

Vertiv



Trellis™ Power Insight helps improve efficiency, protect valuable critical equipment and increases visibility of your UPSes and rPDUs.

MANAGEMENT

Netbotz

APC



Provides integrated surveillance, sensing, access control, and advanced alerting for IT environments of all sizes, from single-rack edge networks to large data centers.

Monitoring & Dispatch Services

Schneider Electric



Distributed IT can now be efficiently managed for you and your customer. Schneider Electric has combined 24/7 expert monitoring, with on-site support including parts, allowing you to minimize the chance of downtime for your customers.

DATA CENTER MONITORING

SECURITY

RFID Electronic Lock Kits

Chatsworth Products (CPI)



Enhanced physical security with audit trail capability for remotely located equipment.

NETWORKING

DOMINION® KX IV-101

Legrand



The highest performing KVM-over-IP switch, provides a new level of Ultra HD 4K performance for remote access and management.

DOMINION® KX III

Legrand



KVM-over-IP switch that provides 1, 2, 4 or 8 users with BIOS-level, remote management of 8, 16, 32 or 64 servers in a single switch.

DOMINION® LX II

Legrand



Raritan's economical Dominion® LX II enables IT, data center, lab, and network administrators to remotely manage computer and serial devices to maximize uptime, avoid travel and quickly resolve issues.

Transceivers

Legrand

Extensive range of industry-standard transceivers.



Micro Data Center

Schneider Electric

Micro data centers help IT professionals install and manage edge networking and computing simply, reliably, and predictably by combining power, cooling, physical security, and management software and services into prepackaged rack solutions that can be deployed globally in any environment. Choose from a wide range of enclosures for traditional IT spaces, harsh or industrial areas, and office or commercial spaces.



Graybar and our elite manufacturers have the technical experience needed to consult with you about your data center. We have the guts to keep your data center up and running.

Power Management

APC
Chatsworth Products (CPI)
Eaton Power Quality
Legrand Ortronics
Legrand Raritan
Legrand Server Tech
nVent
Panduit
Tripp Lite
Vertiv

Cooling

APC
Chatsworth Products (CPI)
Eaton Power Quality
Legrand Ortronics
nVent
Panduit
Tripp Lite
Vertiv

Cable Infrastructure

APC by Schneider Electric
Belden
Chatsworth Products (CPI)
CommScope
Corning
Eaton Power Quality
Hubbell Premise Wiring
Legrand Ortronics
Leviton Network Solutions
nVent
Panduit
Vertiv

Data Center Monitoring

Chatsworth Products (CPI)
CommScope
Eaton Power Quality
Legrand Raritan
nVent
Panduit
Schneider Electric
Vertiv





Graybar, a Fortune 500 corporation and one of the largest employee-owned companies in North America, is a leader in the distribution of high quality electrical, communications and networking products, and specializes in related supply chain management and logistics services.

Graybar has the power and stability of a big company and the integrity and drive of an employee-owned business. Graybar is certified against the latest ISO 9000 standard.

Discover how Graybar can work to your advantage.

     | GRAYBAR.COM

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(8/21)

APC



CORNING

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CABLOFIL®

LEVITON
Network Solutions

BELDEN

COMMSCOPE



legrand
Ortronics

PANDUIT

Life Is On

Schneider
Electric

 **VERTIV**