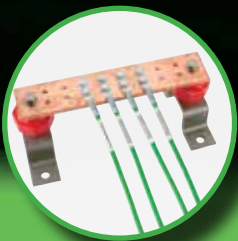


Grounding and Bonding



Compatibility Coding

Color-coded product mounting dimensions throughout this guide allow for visual matching of lugs and grounding kits to the mounting locations on busbars. From page to page, matching color indicates compatibility.

Lug Ground Conductors

part number, add three characteristic

JG 1 alog No.	LENGTH (IN) Catalog No.	LUG 2 Catalog No.
D	30	D
DA	45	DF
DB	60	DN
	90	DA
	144	D*

The colors utilized here do not physically appear on the lugs, busbars or other components. These colors are intended to aid the selection process by organizing the requirements for building a grounding network.

Standards



ANSI/TIA-607-B; September 2011

- Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises
- Standards and Publications are adopted by TIA in accordance with the American National Standards Institute (ANSI) patent policy



ANSI/NECA/BICSI 607-2011; 2011

- Standard for telecommunications bonding and grounding planning and installation methods for commercial buildings
- National Electrical Installation Standards (NEIS™) are designed to improve communication among specifiers, purchasers, and suppliers of electrical construction services. This standard has been prepared by BICSI®/NECA® under joint jurisdiction of BICSI and NECA, and approved by consensus ballot in accordance with the requirements of ANSI. This publication is intended to comply with the edition of the National Electrical Code (NEC®) in effect at the time of publication.



NEC Article 250

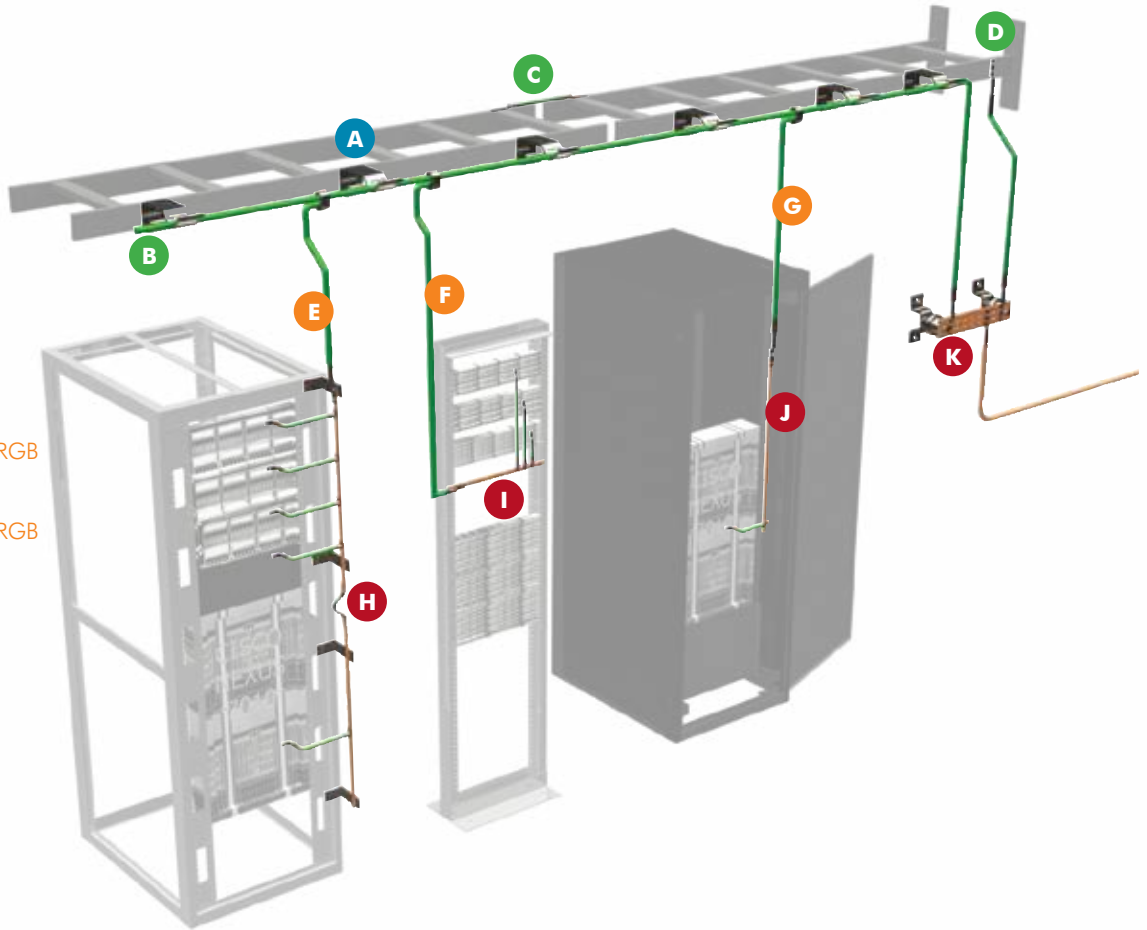
- This article covers general grounding and bonding requirements and practices within electrical installations

The above standards differ; refer to the specified standard to ensure compliance for product selection and installation.

The Bonding Network

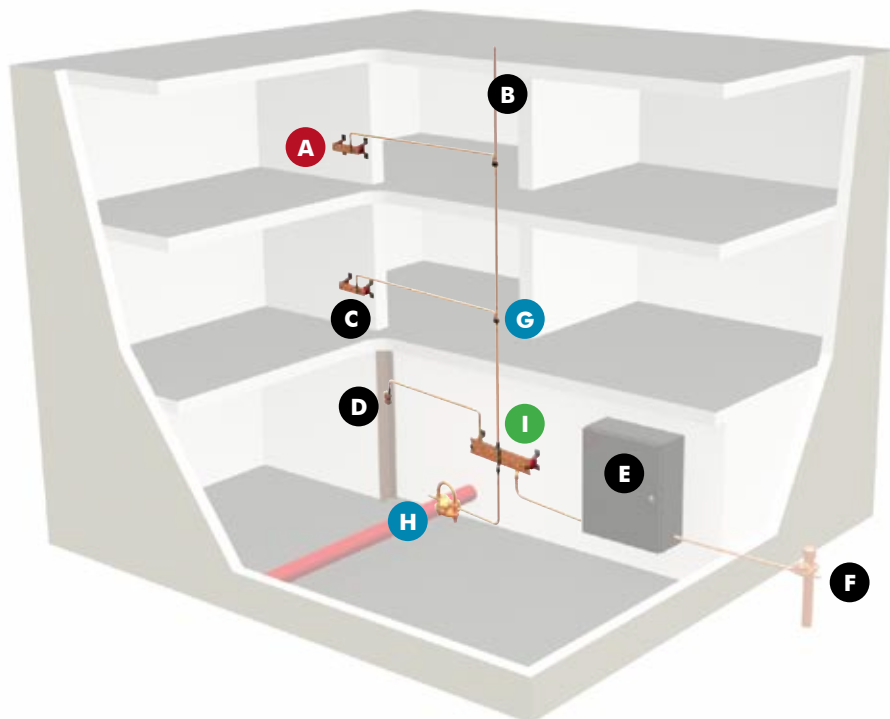
Room Scenario

- A** TEBC Bracket for Ladder
HGBTEBCBRKL10
- B** TEBC 12ft with double lug
HGRKTD144DB
- C** Ladder tray jumper
HGRKTD9D
- D** Ladder to TGB Conductor
HGRKTD60DB
- E** Conductor with C-Tap to 76" RGB
HGRKTD60C46
- F** Conductor with C-Tap to 19" RGB
HGRKTD60C46
- G** Conductor with C-Tap to 36" RGB
HGRKTD60C46
- H** 76" x 3/4" RGB Busbar
HBBBVR76KT
- I** 19" Horizontal RGB
HBBBHR19KT
- J** 36" x 3/4" RGB Busbar
HBBBVR36KT
- K** 10" x 2" TGB Busbar
HBBB14210A



Building Layout

- A** TGB
- B** TBB
Bonding Backbone
- C** Compression Lug
or Tap
- D** Building Steel Bond
- E** Service Panel
- F** Ground Rod
- G** Compression Tap
- H** Pipe Clamp
- I** TMGB



Busbar Kits

On-Rail Kits



Description	Material	Catalog No.
On-rail mounted; 19" rack grounding busbar	Copper	HGRKTHC*
Contents: • 19" busbar • Insulators: (2) nylon bushings, (2) nylon washers • Mounting hardware: (2) M6 stainless screws, (2) #12-24 stainless screws • Lug (DA) crimped to 60", 6AWG • Lug Mount: (8) #6-32 stainless screws • ESD port for 4mm banana plug • VELCRO® strap • Antioxidant	Tin-plated	HGRKTHT*



*For 10 pack, add 10 to the end of the Catalog No.

In-Cabinet Kits



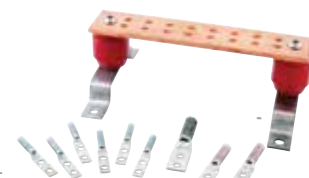
Description	Material	Catalog No.
In-cabinet mounted; 36" rack grounding busbar	Copper	HGRKTV C*
Contents: • 19" busbar • Insulators: (2) nylon bushings, (2) nylon washers • Mounting hardware: (2) M6 stainless screws, (2) #12-24 stainless screws • Lug (DA) crimped to 60", 6AWG • Lug Mount: (8) #6-32 stainless screws • ESD port for 4mm banana plug • VELCRO® strap • Antioxidant	Tin-plated	HGRKTV T*



*For 10 pack, add 10 to the end of the Catalog No.

TGB and TMGB Kits

Description	Size	Catalog No.
TGB Kit Contents: • Copper busbar with stainless steel brackets and insulators • (1) 6AWG lug • (1) 2AWG lug • (2) 2/0AWG lug • (1) 4/0AWG lug • Stainless steel lug mounting hardware • Penetrox antioxidant • Ground label	2" x 10"	HGRKTTGB10A
TMGB Kit Contents: • Copper busbar with stainless steel brackets and insulators • (1) 6AWG lug • (1) 2AWG lug • (2) 2/0AWG lug • (1) 4/0AWG lug • Stainless steel lug mounting hardware • Penetrox antioxidant • Ground label	4" x 16"	HGRKTTMGB16H



VELCRO® is a registered trademark of Velcro Industries B.V.

Ground Conductor Kits



All Ground Conductor Kits Include:

Lug and Tap	Hardware	Accessories
Lug Traceable, crimped, die indexed 7, long barrel, inspection window Tap C-tap/H-tap	Hardware (2) #12-24 ss screws; (2) #12-24 ss hex nuts; (2) #12 ss flat washers; (2) M6 ss screws	Labels Caution label applied at both ends; circle ground reflective sticker Antioxidant 0.5oz tube Penetrox

IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER



Common Ground Conductor Kits

Catalog No.	Common Application	Lug 1	Conductor Length	Lug 2
HGRKTD9D	Ladder tray jumper	D	9"	D
HGRKTD30S	Mounted busbar suppressor to rail	D	30"	S
HGRKTD30DN	Front to rear rail jumper (network cabinet)	D	30"	DN
HGRKTD45DN	Front to rear rail jumper (server cabinet)	D	45"	DN
HGRKTDA144D	19" rail mounted busbar to wall mounted busbar	DA	144"	D
HGRKTD30KS25	Fiber armor grounding	D	30"	KS25

Hole Mounting Dimensions

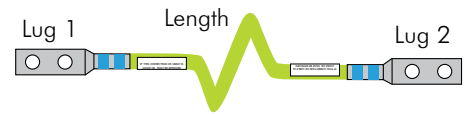
Lug Style	Hole Diameter	Hole Spacing	Angle
S	0.25"	—	0
D	0.25"	0.625"	0
DF	0.25"	0.625"	45
DN	0.25"	0.625"	90
DA	0.25"	0.75"	0
DB	0.25"	1.0"	0

How to Configure Lug-Lug Ground Conductor Kits

To create a ground kit part number, add three characteristics to the base **HGRKT**. Example **HGRKTDA30DN** is shown below.

BASE Catalog No.	LUG 1 Catalog No.	LENGTH (IN) Catalog No.	LUG 2 Catalog No.
HGRKT	D	30	D
	DA	45	DF
	DB	60	DN
		90	DA
		144	DB

Example:	LUG 1	LENGTH (IN)	LUG 2
HGRKT	DA	30	DN



Many configurations are possible to fit any installation.

How to Configure Lug-Tap Ground Conductor Kits

To create a ground kit part number, add three characteristics to the base **HGRKT**. Example **HGRKTDA30YH6** is shown below.

BASE Catalog No.	LUG Catalog No.	LENGTH (IN) Catalog No.	TAP Catalog No.
HGRKT	D	30	YC4
	DA	45	C46
	DF	60	YH6

Example:	LUG	LENGTH (IN)	TAP
HGRKT	DA	30	YH6



Many configurations are possible to fit any installation.

Compression Lugs

- Solid copper construction and tin plated
- UL Listed 90° C, 600V to 35kV
- Die Index Traceable
- UL and CSA Listed



Lug Reference

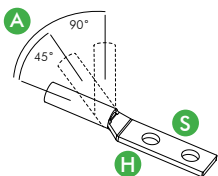
Hole Diameter:
38 = 3/8" = 0.375"

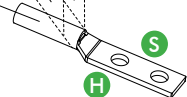
Window:
Inspect Wire

Barrel Length:
Long Series

Die Index:
Match with Traceable Die

Lugs



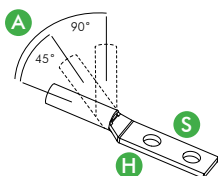


		6AWG	4AWG	2AWG	1AWG	1/0	2/0	3/0
Pkg Qty		50	50	25	25	10	10	10
Barrel Color		Blue	Gray	Brown	Green	Pink	Black	Orange

Style	Kit	A = Angle	H = Hole	S = Spacing						
Single	S	0°	0.250"	–	HGBL06S	HGBL04S	HGBL02S	HGBL01S	HGBL10S	
Single		0°	0.375"	–			HGBL02SA	HGBL01SA	HGBL10SA	HGBL20SA HGBL30SA
Double	D	0°	0.250"	0.625"	HGBL06D	HGBL04D	HGBL02D	HGBL01D	HGBL10D	HGBL20D
Double	DA	0°	0.250"	0.750"	HGBL06DA	HGBL04DA	HGBL02DA	HGBL01DA	HGBL10DA	HGBL20DA HGBL30DA
Double	DB	0°	0.375"	1.000"	HGBL06DB	HGBL04DB	HGBL02DB	HGBL01DB	HGBL10DB	HGBL20DB HGBL30DB
Single	SF	45	0.250"	–	HGBL06SF	HGBL04SF	HGBL02SF			
Double	DF	45°	0.250"	0.625"	HGBL06D45	HGBL04D45	HGBL02D45		HGBL10D45	
Double	DN	90°	0.250"	0.625"	HGBL06D90	HGBL04D90	HGBL02D90		HGBL10D90	
Double		90°	0.375"	1.000"	HGBL06DB90	HGBL04DB90	HGBL02DB90		HGBL10DB90	

	Die Index	7	8	10	11	12	13	14
HU Series		HU5CRT	HU4CRT	HU2CRT	HU1CRT	HU25RT	HU26RT	HU27RT
HW Series		HW5CRT	HW4CRT	HW2CRT	HW1CRT	HW25RT	HW26RT	HW27RT
HX Series		HX5CRT	HX4CRT	HX2CRT	HX1CRT	HX25RT	HX26RT	HX27RT
Dieless		(2)	(2)	(2)	(4)	(4)	(4)	(4)

Large Lugs



				4/0	250kcmil	300kcmil	350kcmil	500kcmil	6000kcmil	750kcmil
Pkg Qty				10	5	5	5	5	5	5
Barrel Color				Purple	Yellow	White	Red	Brown	Green	Black
Style	A = Angle	H = Hole	S = Spacing							
Double	0°	0.375"	1.0"	HGBL40DB	HGBL250DB	HGBL300DB	HGBL350DB	HGBL500DB	HGBL600DB	HGBL750DB
Die Index				15	16	17	18	20	22	24
HU Series				HU28RT	HU29RT	HU30RT	HU31RT	HU34RT	HU36RT	HU39RT
HW Series				HW28VT	HW29VT	HW30VT	HW31VT	HW34VT	–	–
Dieless				(2)	–	–	–	–	–	–

Actual Size:



0.25" Hole
0.625" Spacing



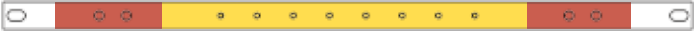
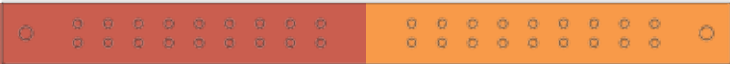
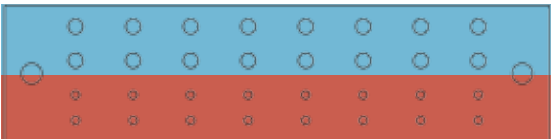
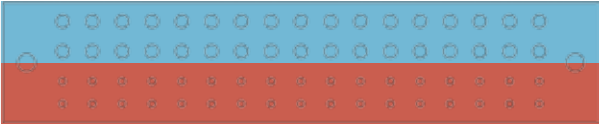
0.25" Hole
0.75" Spacing



0.375" Hole
1.0" Spacing

- Rack Ground Busbar (RGB)
- Telecommunications Grounding Busbar (TGB)
- Telecommunications Main Grounding Busbar (TMGB)
- TGB and TMGB include insulators and assembly hardware

Busbars

	Catalog No./ Description		Hole Diameter	Spacing	Total Qty	Double Lug Qty
RGB	HBBBHR19KT* 0.75" W x 19" L x 0.25" D, insulators, mounting hardware, lug mounting hardware.		6-32 UNF	1.0"	8	4
			0.25"	0.75"	4	2
	HBBBVR36KT* 0.75" W x 36" L x 0.25" D, insulators, mounting hardware, lug mounting hardware.		1/4-20	0.625"	16	8
			5/16-18 stud	1.0"	2	1
	HBBBVR76KT* (2) 0.75" W x 36" L x 0.25" D busbars, 8" braided jumper, insulators, (4) brackets, mounting hardware, lug mounting hardware.		1/4-20	0.625"	16	8
TGB	HBBB14210A* 2" W x 10" L x 0.25" D		0.25"	0.625"	16	8
	HBBB14224B* 2" W x 24" L x 0.25" D		0.25"	0.625"	18	9
			0.25"	0.75"	18	9
TMGB	HBBB14416G* 4" W x 16" L x 0.25" D		0.44"	0.75"	8	—
			0.44"	1.0"	16	8
	HBBB14416H* 4" W x 16" L x 0.25" D		0.44"	1.0"	16	8
			0.25"	0.75"	16	8
	HBBB14420J* 4" W x 20" L x 0.25" D		0.44"	1.0"	34	17
			0.25"	0.75"	34	17

For all connections to busbars, oxidation must be scrubbed away and the application of an antioxidant is required.

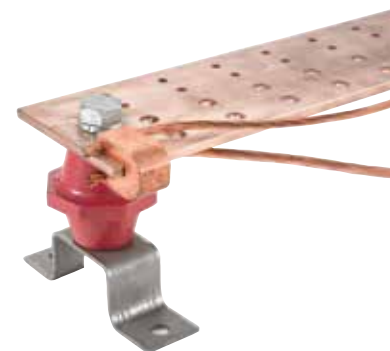
*Add "TP" at the end of any busbar Catalog No. for 99% Copper Tin Plated.

Irreversible Connectors

Irreversible Busbar and I-Beam Connectors provide a high level of bonding security and are as permanent as welding.

Typical Busbar Connector Applications

- TGB to GE
- TGB to TBB
- TGB to beam steel
- TGB to TGB
- TGB to mesh BN



Busbar Connectors

Catalog No.	Quantity	Dimensions	Wire 1	Wire 2	Die	
HYG14B2TC2C6C	1	1.5" x 1.37" x 0.81"	#2AWG	#6AWG	HU1105	
HYG14B2TC2C2C	1	1.5" x 1.37" x 0.81"	#2AWG	#2AWG	HU1105	
HYG14BTC28	1	1.5" x 1.37" x 0.81"	4/0 – 1/0AWG	–	HU1105	
HYG14BTC26	1	1.5" x 1.37" x 0.81"	#2 – 2/0AWG	–	HU1105	

Note: Individually packaged, Penetrox applied, compatible with 0.25" thick busbars.

Typical I-Beam Connector Applications

- Steel beam to TBB
- Steel beam to TGB
- Steel beam to TMGB



I-Beam Connectors

Catalog No.	Quantity	Steel Flange	Flange I Range	Die	
HYGIBS338	1	 STANDARD BEAMS (FLANGE ANGLED)	0.250" – 0.338"	HU1105	
HYGIBS400	1		0.338" – 0.400"	HU1105	
HYGIBS462	1		0.400" – 0.462"	HU1105	
HYGIBS550	1		0.462" – 0.500"	HU1105	
HYGIBW338	1	 WIDE FLANGE BEAMS (FLANGE PARALLEL)	0.250" – 0.338"	HU1105	
HYGIBW400	1		0.338" – 0.400"	HU1105	
HYGIBW462	1		0.400" – 0.462"	HU1105	
HYGIBW550	1		0.462" – 0.500"	HU1105	

Note: Includes heavy duty lug mounting hardware: (2) 0.42" threaded studs, (2) flat washers, (2) lock washers, (2) hex nuts.
Hole spacing for heavy duty HYGHA lugs.

Heavy Duty Lugs

Catalog No.	Quantity	Conductor Size	Hole Size	Spacing	Die Index	Die	
HYGHA02	1	2AWG	0.56"	1.75"	11	HU1CRT	
HYGHA25	1	1/0AWG	0.56"	1.75"	14	HU27RT	
HYGHA26	1	2/0AWG	0.56"	1.75"	15	HU28RT	
HYGHA27	1	3/0AWG	0.56"	1.75"	16	HU29RT (2)	

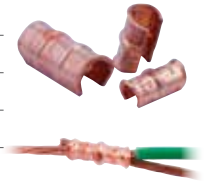
Note: Individually packaged, Penetrox filled, compatible with HYGIB I-beam connectors.

Compression Taps



Thin Wall C-Taps

Catalog No.	Qty	Run-Tap Stranded	Run-Tap Stranded	Run-Tap Stranded	Length	Color Code	No. Ribs	Die Index	HW Series	HU Series
HYC4L12	25	6-6			1.18"	Brown	1	10	HW2CVT(2)	HUC4
HYC2L12	25	4-4	2-6		1.18"	Pink	1	12	HW25VT (2)	HUC2
HYC1L12	10	2-4	1-6		1.75"	Black	2	13	HW26VT (2)	HUC1
HYC25L12	10	2-2	1-4	1/0-4	1.75"	Orange	2	14	HW27VT(3)	HU25
HYC26L12	5	1-1	1/0-2	2/0-2	1.75"	Purple	2	15	HW28VT(3)	HU26
HYC27L12	5	1/0-1/0	2/0-2	3/0-2	1.75"	Yellow	2	16	HW29VT(3)	



Direct Burial C-Taps

Catalog No.	Qty	Run-Tap Stranded	Run-Tap Stranded	Run-Tap Stranded	Length	Die Index	HW Series	HU Series
HYC4C6	10	6-6	4-6		0.625"	BG	HWBG (2)	HUBG (2)
HYC4C4	10	4-4	4-6		0.625"	BG	HWBG (2)	HUBG (2)
HYC2C4	10	2-4	2-6		0.75"	C	HWCC (2)	HUC (2)
HYC2C2	10	2-2			0.75"	C	HWCC (2)	HUC (2)
HYC26C2	5	2/0-6	2/0-4	2/0-2	0.875"	0	–	HU0
HYC26C26	5	2/0-2/0			0.875"	0	–	HU0
HYC28C2	1	4/0-6	4/0-4	4/0-2	1.07"	D3	–	HUD3
HYC28C26	1	4/0-2/0			1.07"	D3	–	HUD3
HYC28C28	1	4/0-4/0			1.07"	D3	–	HUD3



H-Taps

Catalog No.	Qty	Run-Tap Stranded	Run-Tap Stranded	Run-Tap Stranded	Length	Color Code	Die Index	HW Series	HU Series
HYH6C6C	1	6-6			0.6"	Orange	BG	HWBG	HUBG
HYH2C2C	1	2-2,4,6	4-4,6		0.75"	Brown	C	HWCC	HUC
HYH292C	1	4/0-2,6	2/0-2,6	1/0-2,6	0.9"	Purple	654	–	HU654
HYH2929	1	4/0-4/0,2	3/0-3/0,2	2/0-2/0,2	0.9"	Purple	654	–	HU654
HYH3429	1	500-250,1/0	350-250,1/0	4/0-1/0	1.0	Brown	1104	–	HU1104
HYH3434	1	500-500,4/0	350-350,4/0		1.0	Brown	1104	–	HU1104
HYH3931	1	750-4/0,1/0	650-4/0,1/0	500-4/0,1/0	0.95	Yellow	K-R	–	HUKR
HYH3939	1	750-750,350	650-650,350	500-350	1.25	Yellow	K-R	–	HUKR



H-Taps with Clear Cover

Catalog No.	Qty	Run-Tap Stranded	Run-Tap Stranded	Run-Tap Stranded	Length	Color Code	Die Index	HW Series	HU Series
HYH2CWC	1	2-2,4,6	4-4,6		0.75"	Brown	C	HWCC	HUC
HYH29WC	1	4/0-2,6	2/0-2,6	1/0-2,6	0.9"	Purple	654	–	HU654
HYH2929WC	1	4/0-4/0,2	3/0-3/0,2	2/0-2/0,2	0.9"	Purple	654	–	HU654

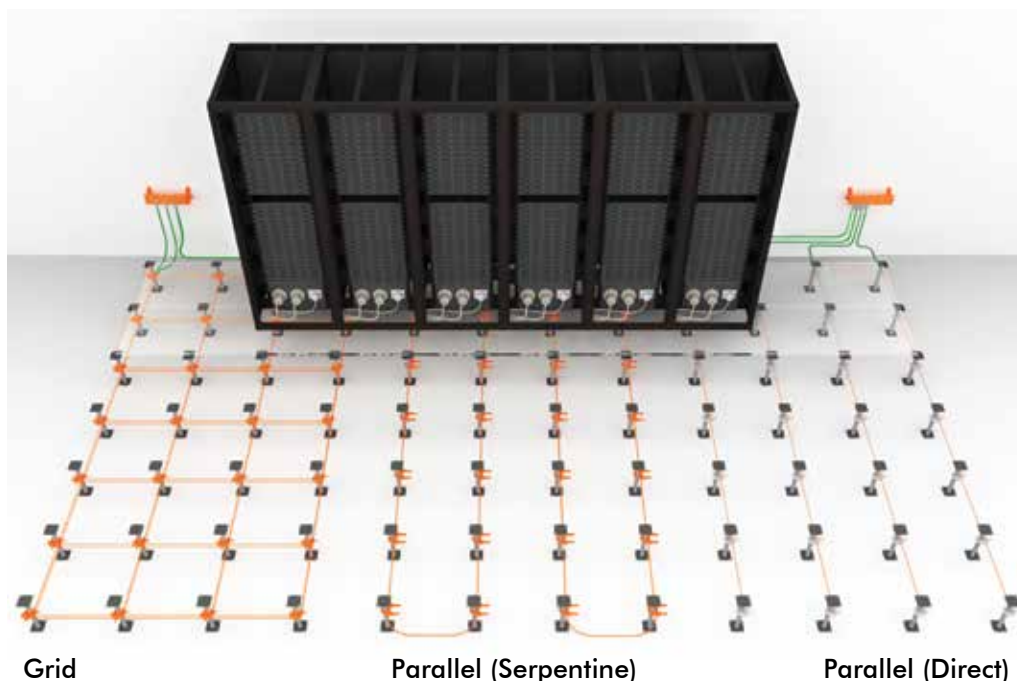


H-Tap Covers

Clear Cover	Black Cover	Qty	H-Tap Size	Color Code
HCCFBGFR	HCFBGFR	1	HYH6Cxx	Orange
HCCFOFR	HCFOFR	1	HYH2Cxx	Brown
HCCFDFR	HCFDFR	1	HYH29xx	Purple
HCCFN	HCFN	1	HYH34xx	Brown
HCCFR	HCFR	1	HYH39xx	Yellow



Clamps



Raised Floor Pedestal Clamps

Catalog No.	Pedestal	Wire Range	Configuration	Hardware	Install Torque	
HGBGXP1828RF	0.75"-1.5" Square 0.75"-1.875" Round	6 – 4/0AWG	Grid or Parallel	Stainless Steel 1/2"	120in-lb Conductor 180in-lb Clamp	
HGBGP1526G1	1.0"-1.25" Round	4 – 2/0AWG	Parallel	Silicon Bronze 9/16"	240in-lb	
HGBGRF4C3	0.75"-1.0" Round or Square	8 – 2AWG	Parallel	Silicon Bronze 9/16"	240in-lb	

Note: Torque values may differ based on the Grounding and Bonding Standard selected.
The Mesh Bonding Network shall have a support attached at a maximum of 3' (36") intervals.

Pipe Clamps

Catalog No.	I.P.S. Pipe Diameter	Height	Width	Conductor Range	U-Bolt Size	Nut Size	
HGBGAR1526	1.0"	2-7/8"	2-5/8"	4AWG-2/0AWG	3/8"	9/16"	
HGBGAR1726	1.5"	3-1/2"	3"	4AWG-2/0AWG	3/8"	9/16"	
HGBGAR1826	2.0"	4"	3-1/4"	4AWG-2/0AWG	3/8"	9/16"	
HGBGAR1926	2.5"	4-1/4"	3-3/4"	4AWG-2/0AWG	3/8"	9/16"	
HGBGAR2026	3.0"	5"	4-1/4"	4AWG-2/0AWG	3/8"	9/16"	
HGBGAR2126	3.5"	5-5/8"	4-3/4"	4AWG-2/0AWG	3/8"	9/16"	
HGBGAR2226	4.0"	6-1/4"	5-3/8"	4AWG-2/0AWG	3/8"	9/16"	
HGBGAR2426	5.0"	6-3/8"	5-7/8"	4AWG-2/0AWG	3/8"	9/16"	
HGBGAR8629	6.0"	8-13/16"	8-3/8"	2AWG-250kcmil	1/2"	3/4"	

Note: All pipe clamps secure the grounding conductor to the pipe in a parallel or perpendicular manner.

Mechanical Connectors

Terminals

Catalog No.	Qty	Minimum	Maximum	Material	Mount Hole Diameter	Torque (in lb)	
HGBKA6U	100	14AWG	6AWG	Aluminum	0.25"	45	
HGBBGBL4	100	14AWG	4AWG	Aluminum	0.22"	35	
HGBKLU35	100	14AWG	6AWG	Copper	0.19"	45	
HGBCL501	100	14AWG	4AWG	Copper	0.22"	35	

On-Rail Terminal

Catalog No.	Qty	Minimum	Maximum	Material	Mount Hole Diameter	Hole Spacing	
HGBKARB	1	14AWG	2/0	Aluminum	0.31"	0.625"	

Split Bolt Connectors

Catalog No.	Qty	STR Min Run and Tap	STR Max Run and Tap	SOL Max Run and Tap	Material	Bolt Size	Length	Torque (in lb)	
HGBKS17	50	8AWG	6AWG	6AWG	Copper	7/16"	1.14"	165	
HGBKS20	50	8AWG	4AWG	4AWG	Copper	1/2"	1.20"	165	
HGBKS22	50	6AWG	3AWG	2AWG	Copper	19/32"	1.50"	275	
HGBKS23	25	6AWG	2AWG	1AWG	Copper	5/8"	1.54"	275	
HGBKS25	25	4AWG	1/0AWG	2/0AWG	Copper	3/4"	1.77"	385	
HGBKS26	10	2AWG	2/0AWG	3/0AWG	Copper	7/8"	1.94"	385	
HGBKS27	10	1AWG	3/0AWG	4/0AWG	Copper	1 1/8"	1.86"	500	
HGBKS29	5	1AWG	250Kcmil	4/0AWG	Copper	1 1/8"	2.07"	650	

Split Bolt Covers

Catalog No.	Qty	Size Minimum	Size Maximum	Color	
HGBSC4	1	HGBKS17	HGBKS20	Black	
HGBSC2	1	HGBKS22	HGBKS23	Black	
HGBSC20	1	HGBKS25	HGBKS26	Black	

ShieldBond Connector

Catalog No.	Qty	Description	
BC285SB100	100	ShieldBond connector kits for cable jackets. Each kit includes brass screw and nut, (2) retaining washers, (1) gripping. Install tool included.	

Tools

Tooling Capability

Tool	HMRC840	HOUR840	HMD7	HPAT600LI	HY750CHSXT	HPAT750LI
Capability	Beam & Busbar Connector					•
	C-Tap & H-Tap 3/0AWG					•
	C-Tap & H-Tap Up to 2AWG			•	•	•
	C-Tap & H-Tap Up to 4AWG		•	•	•	•
	Lug	•	•	•	•	•
Work/Effort	Standard	Standard	Standard	Easy	Involved	Easy
Speed	Average	Average	Average	Fast	Involved	Fastest

Tools, W- and X-Dies

Tools Require Lugs or Taps

Catalog No.	Description	Lugs	Die	Taps	Die
HPAT600LI	6-ton automatic compression tool, 18V lithium powered, carrying case, lanyard, (2) lithium batteries, (1) charging station	HW5CRT	6AWG	HWCC	C
		HW4CRT	4AWG	HWO	0
		HW2CRT	2AWG	HW28K	CUTOFF
		HW1CRT	1AWG	HWBG	BG
		HW25RT	1/0AWG	HW2CVT	10
		HW26RT	2/0AWG	HW25VT	12
		HW27RT	3/0AWG	HW26VT	13
HMD7	9000lb manual compression tool, built-in BG die, handle length 25"	HW28VT	4/0AWG	HW27VT	14
		HW29VT	250kcmil	HW28VT	15
		HW30VT	300kcmil	HW29VT	16
		HW31VT	350kcmil		
		HW34VT	400kcmil		



Tools, W- and X-Dies

Tool Requires Lugs or Taps

Catalog No.	Description	Lugs	Die	Taps	Die
HOUR840	8000lb manual compression tool, hand ratcheting forward cycle until max capacity reset, metal carrying case with die holders	HX5CRT	#6AWG	HXBG	BG
		HX4CRT	#4AWG		
		HX2CRT	#2AWG		
		HX1CRT	#1AWG		
		HX25RT	#1/0AWG		
		HX26RT	#2/0AWG		
		HX27RT	#3/0AWG		



Tools and U-Dies

Tools Require Lugs or Taps

Catalog No.	Description	Lugs	Die	Taps	Die
HPAT750LI	12 ton automatic compression tool, 18V lithium powered, carrying case, lanyard, (2) lithium batteries, (1) charging station	HU5CRT	#6AWG	HU1105	1105
		HU4CRT	#4AWG	HU1104	1104
		HU2CRT	#2AWG	HU654	654
		HU1CRT	#1AWG	HU997	997
		HU25RT	#1/0AWG	HUC4	C4
		HU26RT	#2/0AWG	HUC2	C2
		HU27RT	#3/0AWG	HUC1	C1
HY750CHSXT	12 ton manual hydraulic compression tool, carrying case, handle length 24"	HU28RT	4/0AWG	HUC25	C25
		HU29RT	250kcmil	HUC	C
		HU30RT	300kcmil	HU0	0
		HU31RT	350kcmil	HUBG	BG
		HU34RT	400kcmil	HUC25	26
		HU36RT	500kcmil		
		HU39RT	750kcmil		



Integrated Die Tool

Catalog No.	Description
HMRC840	Manual compression tool, dies for #6AWG to 4/0AWG are integrated into the head, color coded dies unlock and can be rotated to lug barrel size; 26" leveraged handles



Torque Wrenches

Catalog No.	Description
HBT30150	30-150in-lb torque wrench, carrying case, certification calibration
HBT150750	150-750in-lb torque wrench, carrying case, certification calibration



Die Tree and Case

Catalog No.	Description
HWDIETREE	Die tree for use with HW and HX dies; Holds 6 sets
HWIECASE	Die case for use with HW and HX dies; Holds 12 sets
HUDIECASE	Die case for HU dies; Holds 15 sets



Die Information

HU Series	9 pt. font size
HW Series	9 pt. font size
HX Series	9 pt. font size
HMRC840	7 pt. font size



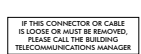
Tooling Best Practices

HPAT600LI and HPAT750LI	Lugs: Insert and align lug in the stationary die. Press and hold forward button until pressure release resets, use reverse button to draw back die. C-Tap and H-Tap: Use VELCRO®, string or a plastic cable tie to hold wires in place while applying pressure.	
HMRC840 and HMD7	Lugs: Insert and align lug in dies, gently close handles to put a light hold on the lug before inserting the stripped copper wire into the lug. By holding the lug vertically (barrel up), gravity will keep the ground wire in place while applying pressure. C-Tap: Use VELCRO®, string or a plastic cable tie to hold wires in place while applying pressure.	
HOUR840	Lugs: Insert and Align lug in dies, gently squeeze handles a few times to put a light hold on the lug before inserting the stripped copper wire into the Lug.	

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Accessories

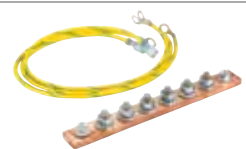
Installation Accessories

Catalog No.	Description	Qty		Catalog No.	Description	Qty	
HGBESDKT10	ESD port for 4mm banana plug; 0.5oz Penetrox; ESD Label; (2) #12-24 TFS; (2) M6 stainless TFS	10		HGBESDBC	ESD cloth bracelet; 6ft cord; 4mm banana plug	1	
HGB25CNWH	1/4" belleville washer	50		HGBESDBM	ESD metal bracelet; 6ft cord; 4mm banana plug	1	
HGB38CNWH	3/8" belleville washer	50		HGB025DBS	3/16" drill bit for steel material and 1/4" thread forming screw	1	
HGB1224ST	#12-24 x 3/4" stainless steel screws	50		HGBCWB2	Wire brush for power drill	1	
HGBM6ST	M6 x 16mm stainless steel screws	50		HGB24AP	2" x 4" abrasive pad	6	
HGBESDLBL	ESD label	25		HGBP8A	8oz bottle Penetrox	1	
HGBGNDLBL	Ground label	25		HPENEA0550	0.5oz tube Penetrox	50	
HGRKTLBL	Ground wire label	25	 IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER	HGB25PPW	Serrated paint piercing washer	50	

Braided Jumper

Catalog No.	Qty	Length	Width	Hole Size	Hole Spacing	
HGBBD6S10	10	6"	0.5"	1/4"	–	
HGBBD9S10	10	9"	0.5"	1/4"	–	
HGBBD12	1	12"	0.94"	3/8"	1.25"	
HGBBD18	1	18"	0.94"	3/8"	1.25"	
HGBBD24	1	24"	0.94"	3/8"	1.25"	

QUADCAB® Wall Mount Cabinet Ground Kit

Catalog No.	Description	
REKGB	Ground bar with (6) 1/4"-20 male studs (2) 1/4"-20 carriage bolts and isolating hardware (2) ground straps (6) 1/4"-20 nuts with star washers	

Specification text available. Contact your local sales representative.

Installation Accessories

Catalog No.	Description	Qty
HGBTEBCBRKL10	TEBC bracket for ladder rack, aluminum painted black	10
HGBTEBCBRKW10	TEBC bracket for wire tray, aluminum painted black	10



Insulated Halo Bracket

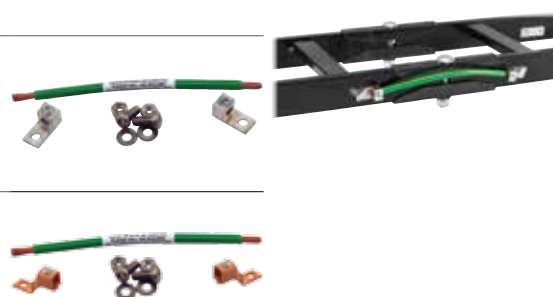
Catalog No.	Description	Qty
HGBSETH	Stainless steel bracket, insulator, UV Rated cable holding clips for 0.25", 0.31", 0.38", 0.50", 0.56", 0.75" and 0.88" cables	1



Ladder & Tray Kits

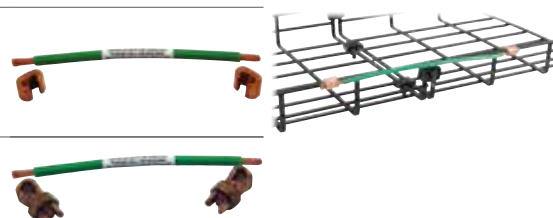
Ladder Tray Bonding Jumper Kits

Catalog No.	Description	Connector
HGRKTKA9KA5	Contents: • (10) connectors • (5) #6 AWG conductors 9" • (10) hardware for securing • Labels for each conductor	Parallel Aluminum
HGRKTKLU9KLU5	Contents: • (10) connectors • (5) #6 AWG conductors 9" • (10) hardware for securing • Labels for each conductor	Standoff Copper



Wire Basket Tray Bonding Jumper Kits

Catalog No.	Description	Connector
HGRKTWC45	Contents: • (10) Connectors • (5) #6 AWG Conductors 9" • Labels for each conductor	C-Tap (Requires BG die)
HGRKTWB5	Contents: • (10) Connectors • (5) #6 AWG Conductors 9" • Labels for each conductor	Split Bolt



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