

Panduit Telecommunications Grounding Busbars

Type GB

- The Telecommunications Grounding Busbars meets BICSI and ANSI/TIA-607-D (rev. 2019) requirements for network systems grounding applications
- Made of high conductivity copper and tin-plated to inhibit corrosion
- Comes pre-assembled with brackets and insulators attached for a quick installation
- The insulators provide 600V of insulation and use of Panduit self-laminating laser/ink jet labels to identify busbars



TGB



TMGB

Part Number	Bar Size	No. of Mounting Positions		Std. Pkg. Qty.
		1/4" Stud Hole with 5/8" Hole Spacing	3/8" Stud Hole with 1" Hole Spacing	

Telecommunications Grounding Busbars (TGB)

GB2B0304TPI-1	1/4" x 2" x 10"	4	3	1
GB2B0306TPI-1	1/4" x 2" x 12"	6		

Telecommunications Main Grounding Busbars (TMGB)

GB4B0612TPI-1	1/4" x 4" x 12"	12	6	1
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For additional label sizes, materials, and print technologies and to see the complete line of Panduit identification products, see www.panduit.com.

Panduit Universal Ground Bars

For Use with Stranded and Solid Copper Conductors

- The Universal Ground Bars securely terminates the main equipment grounding conductor with a compression or mechanical connector in any control panel or enclosure
- Accepts #14 – #4 AWG wire in wire ports and up to a 2/0 AWG main equipment grounding conductor with a compression or mechanical connector
- Several mounting options are available, including bonding stand-offs, isolation stand-offs, and direct mounting to a panel



UGB2/0-414-6



UGB2/0-414-6



UGB2/0-414-6

Part Number	Number of Ports	Wire Port Wire Range AWG	1/4-28 Wire Port Screw Qty.	Figure Dimensions In. (mm)				Mounting Holes to Panel Width
				Length	Width at Top	Width at Base	Height	
UGB2/0-414-6	6	14 AWG-4 AWG	8	4.92 (125.0)	0.62 (15.7)	0.44 (11.1)	.48 (12.2)	2.37 (61.1)
UGB2/0-414-12	12		14	8.28 (210.3)				5.73 (145.4)
UGB2/0-414-18	18		20	11.64 (295.7)				9.09 (230.8)

Accessories

- [UGB-B-SO](#)- Universal ground bar bonding stand-offs; includes two stand-offs and hardware; 2.34" (59.3mm) length, 0.63" (15.9mm) width, 0.75" (19.1mm) height
- [UGB-IN-SO](#)- Universal ground bar isolation stand-offs; includes two stand-offs and hardware; 1.57" (40mm) length, 0.59" (15.0mm) width, 0.98" (25.0mm) height



Panduit RGCBNJ660P22 Equipment Bonding Jumper Kit

- The RGCBNJ660P22 Equipment Bonding Jumper Kit bonds the rack or cabinet to the MCBN
- Engineered to comply with US and International grounding requirements
- HTAP is UL Listed and CSA Certified for applications up to 600V when crimped with Panduit and specified competitor crimping tools, and Panduit crimping dies



Part Number	MCBN Conductor Size AWG	Part Description	Std. Pkg. Qty.	Std. Ctn. Qty.
RGCBNJ660P22	HTCT2-2.1	#6 AWG (16mm ²) jumper; 60" (1.52m) length; 45° bent lug on grounding strip side; provided with .16 oz. (5cc) of antioxidant, two each #12-24 x 1/2", M6 x 12mm, #10-32 x 1/2" and M5 x 12mm thread-forming screws and a copper compression HTAP* for connecting to the MCBN.	1	10

*HTAPs also sold separately, see pages M.41–M.42 of SA-NCCB51.



Panduit RGRB19U Grounding Busbar

- The RGRB19U Grounding Busbar is tin-plated with twenty holes designed for flexibility in mounting with twenty #12-24 x 1/2" hex head screws installed



Part Number	Part Description	Std. Pkg. Qty.
Grounding Busbar Kits for Threaded Rail Fasteners		
RGRB19U	Grounding busbar; 19" (483mm) length; tin-plated; twenty holes arranged for flexibility in mounting with twenty #12-24 x 1/2" hex head screws installed; mounting hole sets have 5/8" (15.9mm) spacing; provided with two each #12-24 x 1/2", M6 x 12mm thread-forming screws, and two #12 flat washers for mounting.	1



Panduit RGS134-1Y Grounding Strip

- The RGS134-1Y Grounding Strip bonds up to 45 RU per Rack with Threaded Rail Fasteners with an EIA Universal Mounting Hole Pattern
- Engineered to Comply with US and International Grounding Requirements



Part Number	Part Description	Std. Pkg. Qty.
RGS134-1Y	Grounding strip; 78.65" (2m) length; .67" (17mm) width; .05" (1.27mm) thickness; provided with .16 oz. (5cc) of antioxidant, one grounding sticker and three each #12-24 x 1/2" and M6 x 12mm thread-forming screws.	1



Panduit CNBK Green Bonding Cage Nut Kit

- The CNBK High Carbon Steel Bonding Cage Nut Kit creates an electrical bond between the mounting rails and equipment that conforms to EIA-310 specifications for racks and cabinets
- Made from high carbon steel and installed with a Phillips, flat blade, or nut screwdriver



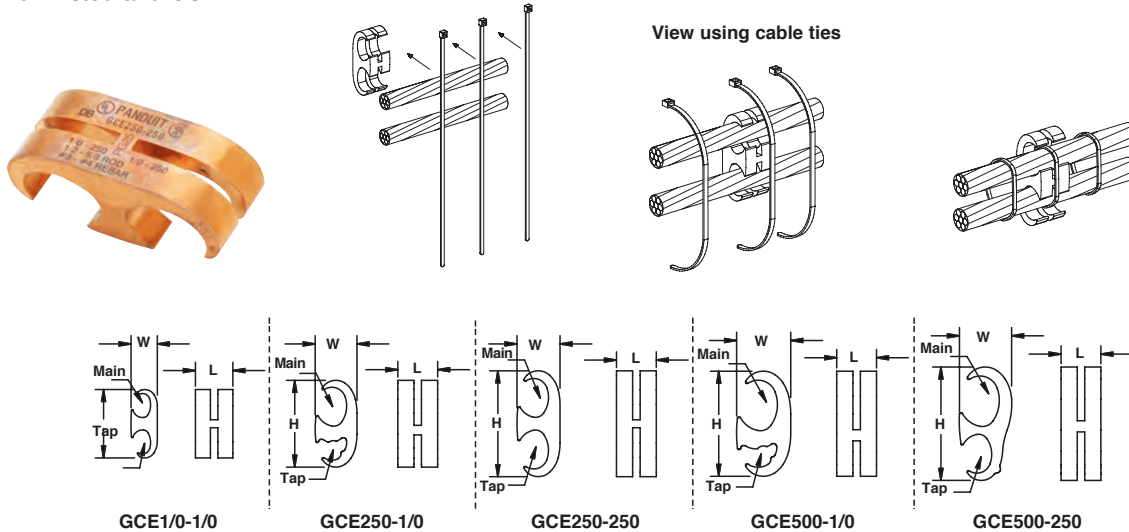
Part Number	Part Description	Std. Pkg. Qty.
CNBK	Green bonding cage nut, includes 50 #12-24 bonding cage nuts (.06 – .11 thick panel) and 50 #12-24 x 1/2" bonding screws with #2 Phillips/slotted combo hex head (use 5/16" or 8mm socket).	1



Panduit E-Style Grounding Connectors

Type GCE

- The E-Style Grounding Connector is designed to enhance the crimp process using technology that meets the IEEE Stud 837 – 2002
- With wide range-taking ability and multi-conductor design provides flexibility with a minimum number of parts
- The slotted design allows quick and easy assembly while the pre-applied conductive antioxidant compound ensures a high quality mechanical and electrical bond and the UL 467 Listed and CSA 22.2
- Complies with vibration tests per MIL-STD-202G (METHOD 201A)
- Not rated for use with galvanized ground rods and/or galvanized cable



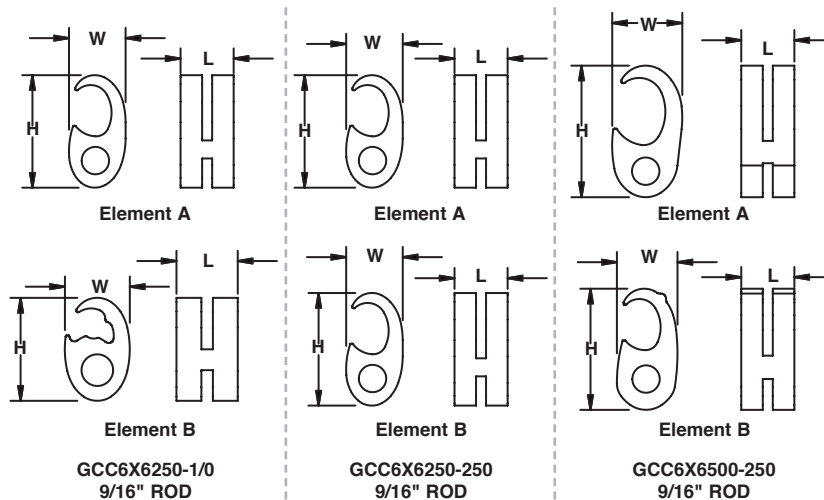
Part Number	Element	Copper Conductor Size Range AWG (mm ²)	Ground Rod Size In. (mm)	Rebar Size In. (mm)	Figure Dimensions In. (mm)			Panduit Color Code	Panduit Part and Die Index No.	Std. Pkg. Qty.
					L	W	H			
GCE1/0-1/0	Main	#6 SOL – 1/0 STR (16 – 50)	—	—	0.94 (23.9)	0.66 (16.8)	1.72 (43.7)	Red	CD-930G-1/0 PG10	1
	Tap				1.00 (25.4)	1.05 (26.7)	2.18 (55.4)			
GCE250-1/0	Main	1/0 STR – 250 kcmil (70 – 120)	1/2 – 5/8 (12.7 – 15.9)	3/8 – 1/2, #3 – #4 (9.5 – 12.7), (#10 – #13)	1.00 (25.4)	1.05 (26.7)	2.18 (55.4)	Black	CD-930G-250 PG25	
	Tap				1.00 (25.4)	1.05 (26.7)	2.18 (55.4)			
GCE250-250	Main	1/0 STR – 250 kcmil (70 – 120)	1/2 – 5/8 (12.7 – 15.9)	3/8 – 1/2, #3 – #4 (9.5 – 12.7), (#10 – #13)	1.00 (25.4)	1.08 (27.4)	2.66 (67.6)	Blue	CD-930G-500 PG50	
	Tap				1.00 (25.4)	1.08 (27.4)	2.66 (67.6)			
GCE500-1/0	Main	250 – 500 kcmil (150 – 240)	1/2 – 3/4 (12.7 – 19.1)	5/8 – 3/4, #5 – #6 (15.9 – 19.1), (#16 – #19)	1.00 (25.4)	1.36 (34.5)	2.64 (67.1)	Blue	CD-930G-500 PG50	
	Tap				1.00 (25.4)	1.36 (34.5)	2.64 (67.1)			
GCE500-250	Main	250 – 500 kcmil (150 – 240)	1/2 – 3/4 (12.7 – 19.1)	5/8 – 3/4, #5 – #6 (15.9 – 19.1), (#16 – #19)	1.00 (25.4)	1.32 (33.4)	2.85 (72.4)	Blue	CD-930G-500 PG50	
	Tap				1.00 (25.4)	1.32 (33.4)	2.85 (72.4)			



Panduit Grounding Cross Connectors

Type GCC

- Only a single die required to crimp each element, which speeds installation and reduces costs
- Wide range-taking ability and multi-conductor design provide flexibility with a minimum number of parts, allowing for conductor to conductor, conductor to rebar, and conductor to ground rod applications
- Designed for the enhanced crimp process using patent pending technology meets IEEE Std 837*
- Slotted design allows quick and easy assembly of conductor to connector using Panduit cable ties, included
- Pre-applied conductive antioxidant compound ensures a high quality mechanical and electrical bond, speeding installation
- Color-coded and marked with Panduit die index numbers for proper crimp die selection
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding suitable for direct burial in earth or concrete when crimped with Panduit or industry standard crimping tools and Panduit dies
- Complies with vibration tests per MIL-STD-202G (METHOD 201A)
- Not rated for use with galvanized ground rods and/or galvanized cable



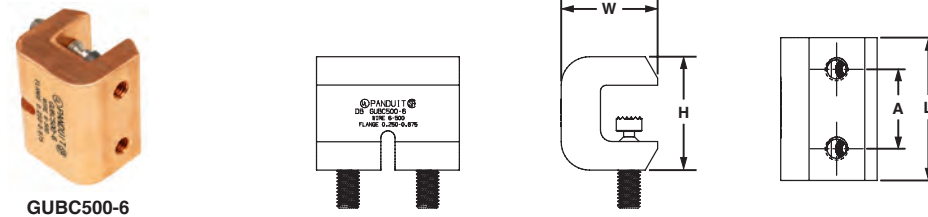
Part Number	Element	Copper Conductor Size Range AWG (mm ²)	Ground Rod Size In. (mm)	Rebar Size In. (mm)	Figure Dimensions In. (mm)			Panduit Color Code	Panduit Part and Die Index No.	Std. Pkg. Qty.
					L	W	H			
GCC6X6250-1/0	A	#2 SOL – 250 kcmil (35 – 120)	1/2 – 5/8 (12.7 – 15.9)	3/8 – 1/2, #3 – #4 (9.5 – 12.7), (#10 – #13)	1.00 (25.4)	1.06 (26.9)	2.12 (53.8)	Black	CD-930G-250 PG25	1
	B	#6 SOL – 1/0 STR (16 – 50)	—	—	1.00 (25.4)	1.06 (26.9)	1.68 (42.7)			
GCC6X6250-250	A	#2 SOL – 250 kcmil (35 – 120)	1/2 – 5/8 (12.7 – 15.9)	3/8 – 1/2, #3 – #4 (9.5 – 12.7), (#10 – #13)	1.00 (25.4)	1.06 (26.9)	2.66 (67.6)			
	B	#2 SOL – 250 kcmil (35 – 120)	—	—	1.00 (25.4)	1.06 (26.9)	2.66 (67.6)			
GCC6X6500-250	A	250 – 500 kcmil (150 – 240)	1/2 – 3/4 (12.7 – 19.1)	5/8 – 3/4, #5 – #6 (15.9 – 19.1), (#16 – #19)	1.00 (25.4)	1.32 (33.5)	2.48 (63.0)	Blue	CD-930G-500 PG50	
	B	#2 SOL – 250 kcmil (35 – 120)	—	—	1.00 (25.4)	1.16 (29.5)	2.29 (58.2)			



Panduit GUBC500-6 Universal Beam Grounding Clamp

Type GUBC

- The GUBC500-6 Universal beam grounding clamp fits on a wide range of standard (angled) and wide flange (parallel) structural steel beams providing a mounting pad suitable for a two-hole compression lug
- Install quickly and easily with standard 1/4" key hex wrench tooling
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding suitable for direct burial in earth or concrete
- Comply with vibration tests per MIL-STD-202G (METHOD 201A)

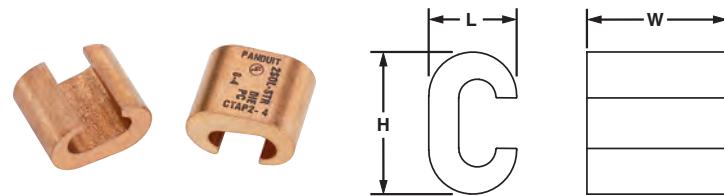


Part Number	Material	Copper Conductor Size Range AWG (mm ²)	Flange Thickness In. (mm)	Thread Size In.	Hex Size	Figure Dimensions In. (mm)				Std. Pkg. Qty.
						A	L	W	H	
GUBC500-6	Copper	#6 AWG – 500 kcmil (16 – 240)	0.250 – 0.675 (6.3 – 17.1)	1/2 – 13	1/4	1.75 (44.4)	3.15 (80.0)	2.13 (54.0)	2.50 (63.5)	1

Panduit Copper Compression Taps

For Copper Code Connections

- The Compression Connector Taps provides high-strength and premium electrical properties
- It is suitable for use with solid and stranded copper Code conductors for tapping into unbroken continuous main, as a wire joint or two-way splice
- The wide wire range-taking capability minimizes inventory requirements
- UL listed and CSA certified to 600V and temperature rated 90°C when crimped with Panduit and specified competitor crimping tools and dies



Part Number	Copper Conductor Size		Figure Dimensions In. (mm)			Panduit Die Index No. ‡	Burndy Die Index No. ‡	Wire Strip Length In. (mm)	Tap Cover	Std. Pkg. Qty.
	AWG Run (mm ²)	AWG Tap (mm ²)	L	T	V					
CTAP4/0-2-X	3/0 – 4/0 AWG STR	#6 – #2 AWG SOL or STR	0.94 (23.9)	1.08 (27.4)	1.66 (42.2)	PD3	F	1 1/4 (32)	CVR500-1	10
CTAP4/0-4/0-X		3/0 – 4/0 AWG STR	1.00 (25.4)	1.08 (27.4)	1.57 (39.9)					

**Consult cable manufacturer for voltage stress relief instructions with applications greater than 2000V.

‡Visit www.panduit.com for tool and die information.

^Note: CTAP parts are UL Listed and CSA Certified with AWG wire only.

Not UL/CSA approved for use with metric wire. See GCE & GCC series parts for UL/CSA approved connections for metric wire.

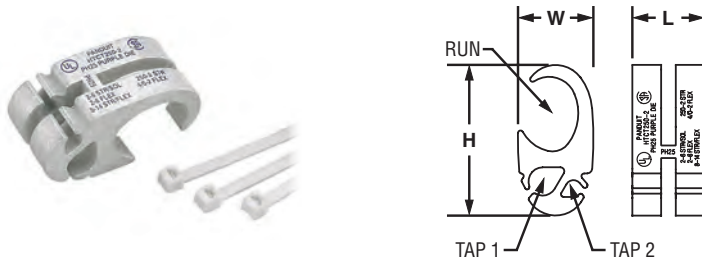


Panduit HTCT250-2-1 Compression H-Tap Connector

For Making Parallel and Multiple Tap Connections on Code and Flex Conductors

Type HTCT

- The HTCT250-2-1 Compression Connector Tap used to tap into continuous conductors as a splice or pig tailing
- Each HTAP terminates a wide range of conductor sizes and combinations of code and flex conductors Class G, H, I, and Diesel Locomotive to suit a variety of applications
- The slotted design allows quick and easy assembly of conductor to HTAP using three Panduit 94V-0 cable ties. UL Listed and CSA Certified for applications up to 600V when crimped with Panduit and specified competitor crimping tools and Panduit crimping dies



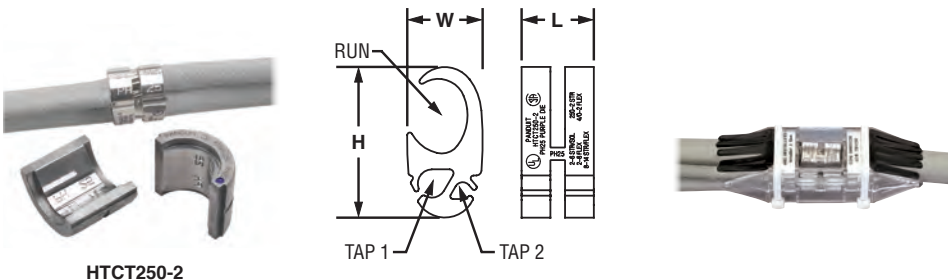
Part Number	Copper Conductor Size Range				Figure Dimensions In. (mm)			Panduit Die Color and Die No.	Wire Strip Length In. (mm)	Std. Pkg. Qty.	
	Wire Strand Type	Run	Tap 1	Tap 2	Tap 3	L	W				H
HTCT250-2-1	Code	250 kcmil – #2 AWG (120 – 35)	#2 – #6 AWG STR/SOL (25 – 16)	#8 – #14 AWG (6 – 2.5)	—	0.92 (23.4)	0.96 (24.4)	1.92 (48.8)	Purple PH25	1 (25)	1
	Flex	4/0 – #2 AWG (95 – 35)	#2 – #8 AWG (25 – 10)		—						



Panduit HTWC250-2-1 Compression H-Tap Kit

Type HTWC

- The HTWC250-2-1 HTAP Kit has a two-piece high impact plastic clear cover to provide 360° inspection of crimped connection
- The cover has a UL 94V-0 flame rating and oxygen index of 28, providing self-extinguishing, flame retardant properties
- For use with code or flexible strand class G, H, I, and Diesel Locomotive Flex cable. Color-coded and marked with Panduit die index numbers for proper die selection
- UL listed and CSA certified for use up to 600V when crimped with Panduit and specified competitor crimping tools and Panduit crimping dies

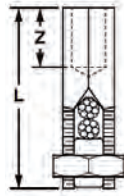


Part Number	Components		Wire Strand Type	Copper Conductor Size Range AWG (mm ²)				Std. Pkg. Qty.
	HTAP Part No.	Clear Cover Part No.		Run	Tap 1	Tap 2	Tap 3	
HTWC250-2-1	HTCT250-2-1	CLRCVR3-1	Code	250 kcmil – #2 AWG (120 – 35)	#2 – #6 AWG STR/SOL (25 – 16)	#8 – #14 AWG (6 – 2.5)	—	1
			Flex	4/0 – #2 AWG (95 – 35)	#2 – #8 AWG (25 – 10)		—	



Panduit SPF2-4-C Service Post Grounding Connector

- The SPF2-4-C Service Post Grounding Connector is designed for grounding two copper code conductors to steel structures, busbars, transformers
- The true hex design for body and nut hex provides correct fit with socket, box, or open-end wrenches, resulting in proper torquing of electrical connection
- The pressure bar provides a secure connection on a full range of conductor combinations used with each connector providing a premium wire pull-out strength
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete



Part Number	Conductor Size Range	Thread Size*	Figure Dimensions In. (mm)		Nut Hex (In.)	Body Hex (In.)	Std. Pkg. Qty.
			L	Z			
SPF2-4-C	#10 SOL – #4 STR	5/16 – 18	1.56 (39.6)	0.31 (7.9)	0.75	0.56	100

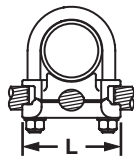
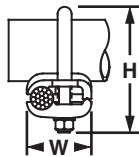
*UNC threads.



Panduit Bronze Grounding Clamps

Type GPL

- The U-Bolt Bronze Grounding Clamps are used to ground copper conductor parallel or at a right angle to a rod, tube or pipe
- Wire range is 2/0 Sol.-250 kcmil
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete

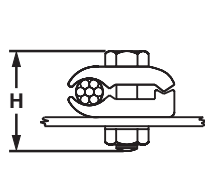
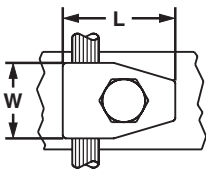


Part Number	Ground Rod Size (In.)	Iron Pipe Size (In.)	Conductor Size Range	Figure Dimensions In. (mm)			Bolt Dia. (In.)	Hex Size (In.)	Std. Pkg. Qty.
				L	W	H			
GPL-6-Q	5/8 or 3/4	3/8	2/0 SOL – 250 kcmil	2.00 (50.8)	1.88 (47.8)	2.75 (69.9)	3/8	9/16	25
GPL-22-X	—	1 1/4	2/0 SOL – 250 kcmil	3.00 (76.2)	1.88 (47.8)	3.50 (88.9)	3/8	9/16	10



Panduit GM-3-Q Bronze Grounding Clamp

- The GM-3-Q Bronze Grounding Clamp is used to ground copper code conductor to flat surfaces
- Conductor Size Range is 2/0 STR - 250 kcmil
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete



Part Number	Conductor Size Range (AWG)	Figure Dimensions (In.)			Hex Size (In.)		Std.Pkg. Qty.
		L	W	H	Bolt	Nut	
GM-3-Q	2/0 SOL – 250 kcmil	2.13	1.50	2.00	3/4	3/4	25