



Grounding & Bonding

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StructuredGround™ Rack Grounding Kit



- Dedicated grounding system ensures performance, protects installed network equipment, and meets U.S. and international grounding standards for compliance
- Rack-optimized for 19" EIA-310-D racks in field deployments; includes thread-forming screws to eliminate manual paint removal and ensure easy installation
- Integrated component system reduces labor and overall cost



RGRKCBNJY

Part Number	Conductor Gauge	Overall Length In. (mm)	Std. Pkg. Qty.
RGRKCBNJY	6 AWG	96 (2438.4)	1

StructuredGround™ ACG24K Armored Cable Grounding Jumper Kit



- Secure Armor Bond ensures a reliable connection to the armor sheath on indoor and indoor/outdoor fiber optic cables at both cassette and enclosure ends
- Worm gear design provides uniform pressure distribution for consistent performance
- Compatible with standard armor types for long term durability
- The 24" jumper is terminated on both ends for quick setup
- The black cover conceals HTAP connections, providing a neat finish



ACG24K

Part Number	Conductor Gauge	Overall Length In. (mm)	Std. Pkg. Qty.
ACG24K	6 AWG	24 (609.6)	1

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StructuredGround™ Equipment Jumper Kit



- Bond network equipment to grounding strip or grounding busbar
- Available with both ends factory terminated to provide a bolt-on solution
- Available with one end factory terminated to attach to the grounding strip or grounding busbar
- free end accommodates unique equipment terminations
- Use jumpers with 90° bent lug, on grounding strip side, for high-density grounding requirements up to one ground point per RU
- Use jumpers with 45° bent lugs, on grounding strip side, for improved cable management
- Engineered to comply with US and International grounding requirements



RGEJ1024PFY



RGEJ1024URT

Part Number	Overall Length In. (mm)	Angle	Conductor Gauge	Includes	Std. Pkg. Qty.
RGEJ1024PFY	24 (600)	Straight and 90°	10 AWG	(1) #10 AWG (6mm ²) Jumper, Bent Lug on Grounding Strip Side to Straight Lug on Equipment, Provided with 0.16oz. (5cc) of Antioxidant and (2) each #12-24 x 1/2", M6x12mm, #10-32 x 1/2" and M5x12mm Thread-Forming Screws	1
RGEJ1024URT	24 (609.6)	Straight		(1) #10 AWG (6mm ²) Jumper, 24" (609.6mm) L, Pre-Terminated with (2) #10 (5.3mm) Stud Hole Ring Terminals to Provide a Bolt-On Solution for Grounding Network Equipment	

StructuredGround™ Grounding Busbar Kit for Cage Nut Rail Fasteners



- Serves as a common grounding point for code compliance
- Optimized for 19 inch EIA-310-D racks or cabinets
- Pre-assembled with hardware for quick setup



RGRB19CN

Part Number	Overall Width In. (mm)	Overall Depth In. (mm)	Std. Pkg. Qty.
RGRB19CN	1 (25)	19.35 (491.5)	1

StructuredGround™ Universal Grounding Busbar Kit for Threaded Rail Fasteners



- Provides a common grounding location within the cabinet for compliance with U.S. and international standards
- Optimized for 19 inch EIA-310-D racks or cabinets
- Pre-assembled with 20 mounting screws for quick installation



RGRB19U

Part Number	For Use With	Std. Pkg. Qty.
★ RGRB19U	19" Racks that meet EIA-310-D	1

StructuredGround™ Grounding Busbar Kit for Threaded Rail Fasteners



- Provides a common grounding location within the cabinet for compliance with U.S. and international standards
- Optimized for 19 inch EIA-310-D racks or cabinets
- Pre-assembled with 20 mounting screws for quick installation



RGRB19Y

Part Number	Overall Width In. (mm)	Overall Depth In. (mm)	Includes	Std. Pkg. Qty.
★ RGRB19Y	1 (25)	19.37 (491.5)	(1) Mounting Hardware Kit	1

StructuredGround™ Telecommunications Grounding Busbar



- 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 600 V of insulation and use of Panduit self-laminating laser/ink jet labels to identify busbars



GB2B0304TPI-1



GB2B0312TPI-1

Part Number	Overall Thickness In. (mm)	Overall Width In. (mm)	Overall Length In. (mm)	Std. Pkg. Qty.
★ GB2B0304TPI-1	0.25 (6.4)	2 (50.8)	10 (254)	1
★ GB2B0306TPI-1			12 (304.8)	
GB2B0312TPI-1	0.25 (6.4)	2 (50.8)	20 (508)	1

StructuredGround™ Telecommunications Grounding Busbar (continued)

Part Number	Overall Thickness In. (mm)	Overall Width In. (mm)	Overall Length In. (mm)	Std. Pkg. Qty.
GB2B0514TPI-1	0.25 (6.4)	2 (50.8)	24 (609.6)	1

StructuredGround™ Telecommunications Main Grounding Busbar



- Meets BICSI and ANSI/TIA-607-D (rev. 2019) grounding requirements
- Pre-assembled with brackets and insulators for quick installation
- Insulators provide 600 V insulation



GB4B0612TPI-1

GB4B0624TPI-1

GB4B1028TPI-1

Part Number	Overall Thickness In. (mm)	Overall Length In. (mm)	Overall Width In. (mm)	Overall Height In. (mm)	Std. Pkg. Qty.
★ GB4B0612TPI-1	0.25 (6.4)	12 (304.8)	4 (101.6)	2.75 (69.9)	1
★ GB4B0624TPI-1		20 (508)		3.25 (69.9)	
GB4B1028TPI-1		24 (609.6)		2.75 (69.9)	

StructuredGround™ NEMA Hole Pattern Grounding Busbar



- Provided with standard NEMA hole pattern spacing
- Made of high conductivity copper and tin-plated to inhibit corrosion
- Pre-assembled with brackets and insulators for quick installation
- Insulators provide 600 V insulation



GB4N0016TPI-1

Part Number	Overall Thickness In. (mm)	Overall Length In. (mm)	Overall Width In. (mm)	Overall Height In. (mm)	Std. Pkg. Qty.
GB4N0016TPI-1	0.25 (6.4)	24 (609.6)	4 (101.6)	2.75 (69.9)	1

StructuredGround™ Grounding Strip Kit for Threaded Rail Fasteners



- Bonds up to 45 RU per rack with threaded rail fasteners and EIA universal mounting hole pattern



RGS134-1Y

Part Number	Overall Length In. (mm)	Overall Width In. (mm)	Overall Thickness In. (mm)	Includes	Std. Pkg. Qty.
 RGS134-1Y	78.7 (1997)	0.68 (17.3)	0.05 (1.3)	(1) Grounding Strip, (1) 0.16oz (5cc) Antioxidant, (1) Grounding Sticker, (3) #12-24 x 1/2" Thread-Forming Screws, (3) M6x12mm Thread-Forming Screws	1

StructuredGround™ Grounding Strip Kit for Cage Nut Rail Fasteners



- Bonds up to 45 RU per rack and includes EIA universal mounting hole pattern
- Engineered to comply with U.S. and international grounding requirements



RGS134B-1

Part Number	Number of Rack Units	Overall Thickness In. (mm)	Overall Length In. (mm)	Overall Width In. (mm)	Includes	Std. Pkg. Qty.
RGS134B-1	45	0.03 (0.8)	78.7 (1986.3)	0.67 (17.1)	(1) Grounding Strip, (1) 0.16oz (5cc) Antioxidant, (1) Grounding Sticker, (3) Cage Nut Bonding Studs, (8) #12-24 Bonding Nuts, (3) Strip Clips	1



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Universal Grounding Bar Bonding Standoff



- Compatible with stripped wire, ferrules, terminals, compression connectors, and mechanical connectors, and supports more than 140 Panduit connectors
- Offers surface mounting plus bonded or isolated stand off options to provide added wiring space in tight areas
- Unique ground bar profile increases contact area between connectors and the bar for improved conductivity
- Engineered to streamline installation and improve accessibility in confined spaces



UGB-B-SO

Part Number	Overall Length In. (mm)	Overall Width In. (mm)	Overall Height In. (mm)	Std. Pkg. Qty.
★ UGB-B-SO	2.34 (59.3)	0.63 (15.9)	0.75 (19.1)	1

StructuredGround™ Universal Grounding Bar



- Compatible with all common wire termination methods, including stripped wire, ferrules, terminals, compression connectors, and mechanical connectors, and works with more than 140 Panduit connectors
- Offers surface mounting plus two stand-off options, bonded or isolated, to provide additional wiring space in tight areas
- Unique ground bar profile increases contact area between connectors and the bar for improved conductivity
- Engineered to streamline installation and enhance accessibility in confined spaces



UGB2/0-414-12

Part Number	Compatible Wire Gauge	Compatible Conductor Size	Number of Ports	Overall Length In. (mm)	Overall Width In. (mm)	Std. Pkg. Qty.
★ UGB2/0-414-12	4 AWG	14-4 AWG	12	8.28 (210.3)	0.62 (15.7)	1

Universal Grounding Bar Isolation Standoff



- Includes two stand offs and mounting hardware
- Accepts bare copper conductors #14 to #4 AWG
- Accepts wire ferrules #14 to #6 AWG
- Top of bar accepts ring terminals, compression connectors, or mechanical connectors with a 1/4 inch stud hole and max width of 0.55 inches



UGB-IN-SO

Part Number	Overall Length In. (mm)	Overall Width In. (mm)	Overall Height In. (mm)	Std. Pkg. Qty.
UGB-IN-SO	1.57 (40)	0.59 (15)	0.98 (25)	1

StructuredGround™ 6" x 6" Style Grounding Connector



- Single die required for all crimp elements to speed installation and cut costs
- Wide range taking and multi conductor design reduces part count for conductor to conductor, rebar, and ground rod applications
- Designed for enhanced crimp process using patent pending technology meeting IEEE 837 2002 and REV 2014
- Slotted design enables quick conductor to connector assembly with included Panduit cable ties
- Pre-applied conductive antioxidant compound provides a strong mechanical and electrical bond for faster installation
- Color-coded with Panduit die index numbers for proper die selection
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding for direct burial in earth or concrete when crimped with Panduit tools and dies or specified competitor tools
- Meets vibration requirements per MIL STD 202G (Method 201A)
- Not rated for galvanized ground rods or galvanized cable



GCC6X6250-1/0



GCC6X6500-250

Part Number	Main Size	Main Size Range (mm²)	Ground Rod Size Range In. (mm)	Rebar Size Range In. (mm)	Tap Size	Tap Size Range (mm²)	Color Code	For Use With	Std. Pkg. Qty.
GCC6X6250-1/0	2 AWG SOL- 250 kcmil	35-120	1/2 – 5/8 (12.7 – 15.9)	3/8 – 1/2 (9.52 – 12.7)	6 AWG SOL-1/0 AWG STR	16-50	Black	CD-930G-250	1
GCC6X6500-250	250-500 kcmil	150-240	1/2 – 3/4 (12.7 – 19.1)	5/8 – 3/4 (15.87 – 19.05)	2 AWG SOL- 250 kcmil	35-120	Blue	CD-930G-500	

StructuredGround™ C-Type Compression Connector



- High strength design delivers premium electrical performance
- Works with solid and stranded copper Code conductors for tapping, wire joints, or two way splices
- Wide wire range taking capability reduces inventory requirements
- UL Listed and CSA Certified to 600 V and 90°C when crimped with Panduit or approved competitor tools and dies
- Consult cable manufacturer for voltage stress relief guidance for applications above 2000 V
- CTAP parts are UL Listed and CSA Certified for AWG wire only
- Not UL or CSA approved for metric wire; use GCE or GCC series for approved metric connections
- Not UL/CSA approved for use with metric wire. See GCE & GCC series parts for UL/CSA approved connections for metric wire



CTAP2-2-X

CTAP2/0-2-X

CTAP4/0-2-X

CTAP4/0-4/0-X

Part Number	Run Size	Tap Size	Overall Height In. (mm)	Overall Length In. (mm)	Overall Width In. (mm)	For Use With	Burndy Die Index Number	Wire Strip Length In. (mm)	Std. Pkg. Qty.
CTAP2/0-2-X	1/0-2/0 AWG	8-2 AWG	1.32 (33.5)	0.8 (20.3)	0.93 (23.6)	AWG wire only	O	1-1/16 (27)	10
CTAP2-2-X	2 AWG	2 AWG	1.05 (26.7)	0.6 (15.2)	0.75 (19)		C	7/8 (22)	
CTAP4/0-2-X	4-3/0 AWG	6-2 AWG	1.66 (42.2)	0.94 (23.9)	1.08 (27.4)		F	1-1/4 (32)	
CTAP4/0-4/0-X	3/0-4/0 AWG	3/0-4/0 AWG	1.57 (39.9)	1 (25.4)					

StructuredGround™ Grounding Connector



- Wide range taking, multi conductor design increases flexibility and reduces part count for conductor to conductor and conductor to rod applications
- Heavy wall, extruded, high conductivity copper design delivers high strength and premium electrical performance
- Pre-applied conductive antioxidant compound provides a strong mechanical and electrical bond for faster installation
- Marked with Panduit die index numbers for accurate die selection
- UL 467 Listed for grounding and bonding and rated for direct burial in earth or concrete when crimped with select Panduit or approved competitor tools and dies
- UL 486A and UL 486B Listed for wire to wire applications up to 35 kV and 90°C when crimped with select Panduit or approved competitor tools and dies



CTAPR2-2-L

Part Number	Main Size	Max. Ground Rod Sz. In. (mm)	Tap Size	Overall Length In. (mm)	Overall Width In. (mm)	Overall Height In. (mm)	Std. Pkg. Qty.
CTAPR2/0-2/0-L	1-2/0 AWG STR	3/8 (9.5)	2/0 AWG STR	0.75 (19.1)	0.74 (18.8)	1.55 (39.4)	50
CTAPR2/0-2-L	1-2/0 AWG STR	3/8 (9.5)	6-2 AWG STR, 6-1 AWG SOL	0.75 (19.1)	0.72 (18.2)	1.43 (36.3)	50

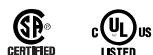
StructuredGround™ Grounding Connector (continued)

Part Number	Main Size	Max. Ground Rod Sz. In. (mm)	Tap Size	Overall Length In. (mm)	Overall Width In. (mm)	Overall Height In. (mm)	Std. Pkg. Qty.
CTAPR2-2-L	6 AWG SOL	1/4 (6.4)	6-2 AWG STR, 6-1 AWG SOL	0.75 (19.1)	0.56 (14.2)	1.16 (29.5)	50
CTAPR250-2/0-L	250 kcmil	5/8 (14.2)	6-2/0 AWG STR, 6-3/0 AWG SOL		0.93 (23.6)	1.98 (50.3)	
CTAPR250-250-L			250 kcmil		0.94 (23.9)	2.07 (52.6)	
CTAPR500-2/0-X	300-500 kcmil	3/4 (19)	6-2/0 AWG STR, 6-3/0 AWG SOL	0.88 (22.4)	1.23 (31.2)	2.42 (61.5)	10
CTAPR500-250-X			250 kcmil		1.34 (33.9)	2.69 (68.2)	
CTAPR500-500-X			300-500 kcmil	1.1 (27.9)	1.36 (34.5)	2.92 (74.2)	

Cabinets,
Thermal
Mgmt,
Racks &
Enclosures

Fiber Optic
Systems

Auxiliary Cable Bracket Kit



- Bonds ladder rack and wire basket sections without drilling
- Supports grounding conductors in telecom spaces and separates grounding conductors from other cables
- Holds up to four conductors in sizes up to 750 kcmil
- Bonds to all 1 inch and 2 inch ladder rack rails
- Paint piercing teeth provide electrical continuity between pathway sections while minimizing debris
- Front and back screw mounting options enable easy installation and visual inspection
- GACB-2 can be mounted above or below the cable pathway system for flexibility
- Brackets meet TIA-607-C



GACB-2

Part Number	Overall Width (mm)	Overall Height In. (mm)	Overall Depth In. (mm)	Std. Pkg. Qty.	Std. Ctn. Qty.
★ GACB-2	(41.4)	106.1 (4.18)	94.2 (3.71)	1	10

Grounding
& Bonding

Power, Env,
Security &
Connectivity
Hardware

Safety &
Security

Signs,
Labels
& ID

StructuredGround™ 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
- Includes 50 #12-24 bonding cage nuts (.06 – .11 thick panel) and 50 #12-24 x 0.5" bonding screws with #2 Phillips/slotted combo hex head (use 0.3125" or 8mm socket)



CNBKD

Part Number	For Use With	Includes	Color	Std. Pkg. Qty.
★ CNBKD	Bonding Cage Nut Fasteners	(50) Screws, (50) Cage Nuts	Green	1

Wire
Routing,
Mgmt &
Protection

Wire
Termination

Part
Number
Index

StructuredGround™ Tapped Rail Bonding Stud Kit

- Paint piercing serrations create a reliable bond point between the rack or cabinet and painted patch panels, equipment, servers, busbars, and jumpers
- Thread forming design bonds to the rack or cabinet by removing paint from holes while minimizing metal shavings
- Green color-coding identifies the bonding application



TRBSK

Part Number	For Use With	Includes	Color	Std. Pkg. Qty.
→ TRBSK	#12-24 Bonding Cage Nuts	(25) Bonding Studs, (50) Bonding Nuts, 5cc Tube Anti-Oxidant Paste	Green	1

StructuredGround™ HDW1/4-A-KT Mounting Hardware Kit

- Paint piercing serrations create a reliable bond point between the rack or cabinet and painted patch panels, equipment, servers, busbars, and jumpers
- Thread forming design bonds to the rack or cabinet by removing paint from holes while minimizing metal shavings
- Green color-coding identifies the bonding application



HDW1/4-A-KT

Part Number	Includes	Std. Pkg. Qty.
HDW1/4-A-KT	(1) Stainless Steel Mounting Hardware for Busbar: (2) 1/4-20 Hex Bolts, (2) 1/4-20 Hex Nuts, (4) 1/4 Flat Washers, (2) 1/4 Belleville Compression Washers, Mounting Hardware for Rack or Cabinet: (2) #10-32 Thread-Forming Screws, (2) MS Thread-Forming Screws	1

StructuredGround™ Access Floor Grounding Clamp



- Quad bolt design provides a strong bond for one or two perpendicular conductors and speeds installation by securing one conductor in place
- Fits conductors from #6 to 1/0 AWG, reducing inventory with wide range taking capability
- Captive U bolt with single hinged bolt enables installation in one third the time of comparable products



GPQC10-1/0

Part Number	Compatible Pedestal Width (In.)	Overall Width In. (mm)	Overall Height In. (mm)	Overall Depth In. (mm)	Std. Pkg. Qty.
GPQC10-1/0	7/8 Square, 1 Round, 1-1/8 Round	3.38 (85.9)	3.19 (81)	4.19 (106.4)	1

StructuredGround™ Bronze Grounding Clamp



- Grounds copper Code conductor to flat surfaces
- Cast from high strength electrolytic bronze for reliable grounding connections
- High strength silicone bronze hardware provides long term reliable assembly
- Accommodates a wide range of conductor sizes to reduce inventory and save cost
- Spacer plate separates the conductor from the mounting surface
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete



GM-3-Q

Part Number	Compatible Conductor Size	Overall Length In. (mm)	Overall Width In. (mm)	Overall Height In. (mm)	Hex Size In. (mm)	Std. Pkg. Qty.
GM-3-Q	2/0 AWG-250 kcmil	2.13 (54.1)	1.5 (38.1)	2 (50.8)	1/2 (12.7)	25

StructuredGround™ Copper Lay-In Lug



- Supports a wide wire range for simplified grounding conductor installation
- Direct burial design provides durability and long term performance in harsh environments
- Provides strong, dependable electrical bonds for grounding applications in utility and ground grids



LICC4-22-TL

Part Number	Compatible Conductor Size	Stud Hole Size In. (mm)	Std. Pkg. Qty.
LICC4-22-TL	14-4 AWG	#12 (5.6)	250

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StructuredGround™ Tin-Plated Aluminum Lay-In Lug



- Supports quick installation of a continuous grounding conductor
- UL 467 Listed for grounding and bonding; copper lugs UL Listed for direct burial in earth or concrete
- UL Listed for use up to 600 V and temperature rated 90°C
- Wide wire range taking capability reduces inventory requirements
- Zinc plated steel set screw
- Panduit oxide inhibiting joint compound (CMP) recommended for pad to conductor connections



LIAC4-22-C



LIAS250-56-X

Part Number	Compatible Conductor Size	Stud Hole Size In. (mm)	Hex Size In. (mm)	Overall Length In. (mm)	Overall Width In. (mm)	Overall Height In. (mm)	Std. Pkg. Qty.
LIAC4-22-C	14-4 AWG	#12 (5.6)	1/4 (6.35)	1.06 (26.9)	0.39 (9.9)	0.78 (19.8)	100
LIAS250-56-X	6 AWG-250 kcmil	1/4 (6.4)		2.2 (55.9)	0.8 (20.3)	1.7 (43.2)	10

LIAS250-56-X is not DB Rated

StructuredGround™ Two Conductor Service Post Connector



- Grounds two copper Code conductors to steel structures, busbars, or transformers, or taps from busbars using a hex nut and washer
- High copper content, hard drawn copper rod provides high strength
- Pressure bar delivers secure connections across a full range of conductor combinations with premium pull out strength
- cULus 467 Listed for grounding and bonding and suitable for direct burial in earth or concrete
- True hex body and nut design ensures proper fit with socket, box, or open end wrenches for easy installation
- Available in standard and long stud lengths for optimal threaded stud fit through the mounting surface



SP2-2-C



SP2-2/0-Q



SP2-2L-C



SP2-4/0-Q

Part Number	Thread Size	Overall Length In. (mm)	Stud Length In. (mm)	Hex Size In. (mm)	Std. Pkg. Qty.
SP2-2/0-Q	1/2-13 UNC Thread	1.88 (47.8)	3/4 (19.1)	7/8 (22)	25
SP2-2-C	3/8-16 UNC Thread	1.38 (35.1)	5/8 (16)		100
★ SP2-2L-C		1.28 (32.5)	1-1/8 (28.7)		
★ SP2-4/0-Q	5/8-11 UNC Thread	2.25 (57.2)	1 (25.4)	1-3/8 (35)	25

StructuredGround™ Universal Beam Grounding Clamp



- Fits a wide range of standard angled and wide flange structural steel beams to provide a mounting pad for a two hole compression lug
- Installs quickly with standard 0.25 inch key hex wrench tooling
- UL 467 Listed and CSA 22.2 Certified for grounding and bonding and suitable for direct burial in earth or concrete
- Meets vibration requirements per MIL STD 202G (Method 201A)



GUBC500-6

Part Number	Copper Conductor Size	Overall Length In. (mm)	Overall Width In. (mm)	Overall Height In. (mm)	Std. Pkg. Qty.
GUBC500-6	6 AWG-500 kcmil	3.15 (80)	2.13 (54)	2.5 (63.5)	1

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