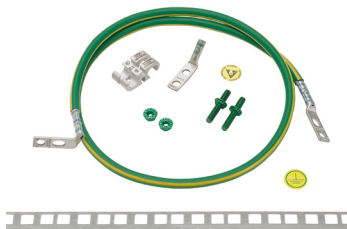


StructuredGround™ Grounding Kits for Net-Access™ Cabinets and 4-Post Racks

SPECIFICATIONS

Structured grounding kits shall be UL Listed, CSA Certified, and RoHS compliant. Grounding strip and connectors shall be tin-plated. Grounding strip shall comply with EIA universal mounting hole spacing and mount to standard racks and cabinets. All components shall be bonded to the rails with paint piercing hardware. Electrostatic discharge (ESD) ports shall be mounted to both the front and back of the rack or cabinet. Equipment shall be bonded to the grounding strip with a discreet jumper and two-hole long barrel compression lugs. There shall be a #6 AWG copper code discreet jumper that terminates on the mesh common bonding network (MCBN) with a copper compression HTAP and attaches to the grounding strip using a two-hole, long barrel compression lug. The compression lugs shall meet NEBS Level 3 criteria and have inspection windows. All jumpers shall have green-and-yellow VW-1 rated insulation. If the 4-post rack or cabinet is not fully bonded, where rack or cabinet sections bolt together a provision must be made to ensure metal-to-metal contact. An acceptable means of creating this metal-to-metal contact is deploying a tin-plated copper busbar and front-to-back grounding jumpers to bond to all mounting rails.



TECHNICAL INFORMATION

Performance level:	UL Listed, CSA Certified, RoHS Compliant
Packaging:	- Common bonding network (CBN) jumper kit is supplied with one copper compression HTAP, mounting hardware, and antioxidant - Grounding strip kits are supplied with mounting hardware and antioxidant - Equipment jumper kits are supplied with mounting hardware and antioxidant - Surge suppressor jumper kit is supplied with mounting hardware and antioxidant - Grounding busbar kit is supplied with 20 hex head screws pre-installed, mounting hardware, and flat washers for mounting - Front-to-back rail jumper kits are supplied with mounting hardware, two grounding stickers, and antioxidant

KEY FEATURES AND BENEFITS

Visually verifiable ground system:	Provides a dedicated, low resistance, and visually verifiable ground system to maintain system performance, protect network equipment, and maximize uptime
Paint piercing components and thread-forming screws:	Eliminate the need to manually remove paint from the rack or cabinet, saving labor and cost and minimizing metal shavings
Flexible design:	Can be installed on readily available, new and existing racks and cabinets that meet EIA-310-D; allows up to 45 units to be grounded
Complete system of matched components:	Saves labor and cost by making it easy to select components and kits for the particular rack grounding application

APPLICATIONS

Because data center racks and cabinets are typically painted and bolted together, electrical continuity throughout the rack or cabinet is not assured. StructuredGround Grounding System Kits provide a solution for properly grounding racks, cabinets, and housed equipment. Paint piercing components are available to provide continuity between frame members. Thread-forming screws or bonding studs are supplied with the grounding kits to provide a bond between the grounding strip and the rack or cabinet by removing paint from thread holes and minimizing metal shavings. The grounding strip can be connected to the raised floor or overhead system ground using the common bonding network (CBN) jumper. Network equipment is bonded to the grounding strip using available equipment jumpers and paint piercing hardware.

Common Bonding Network (CBN) Jumper Kit

#6 – #2 AWG
(16 – 35mm²) HTAP,
60" (1.52m) L, #6
AWG (16mm²),
factory terminated
on one end: **RGCBNJ660P22**

Grounding Strip Kits

One strip for threaded
rail fasteners: **RGS134-1Y**

One strip for cage
nut rail fasteners: **RGS134B-1**

Equipment Jumper Kits

#6 AWG (16mm²),
factory terminated
on one end 57"
(1.45m) L, 90° bent: **RGEJ624PFY**

Surge Suppressor Jumper Kit

#10 AWG (16mm²),
factory terminated
on both ends: **SSGK-1**

Electrostatic Discharge (ESD) Port Kit

Two-hole for threaded
rail fasteners: **RGESD2-1**

Two-hole for cage
nut rail fasteners: **RGESD2B-1**

Grounding Busbar Kit

19" (.48m) L,
for threaded: **RGRB19U**

19" (.48m) L,
for cage nut: **RGRB19CN**

Front to Back Rail Jumper Kits

#6 AWG (16mm²),
factory terminated
on both ends 30"
(.75m) length: **CGJ630UB**

Bonding Screws

#12 – 24 x 1/2": **RGTBSG-C**

Bonding Hardware Kit

Bonding stud kit
for cage nut rail
fasteners: **CGNBSK**

4-Post Racks

4-Post steel rack: **R4P*+^**

Adjustable Depth
4-Post Rack **AR4P*+^**

Net-Access™ Cabinets

N-Type Network Cabinets are available
with threaded rails or cage nut rails -
consult factory.

S-Type Server Cabinets are available only
with cage nut rails.

See www.panduit.com/cabinets

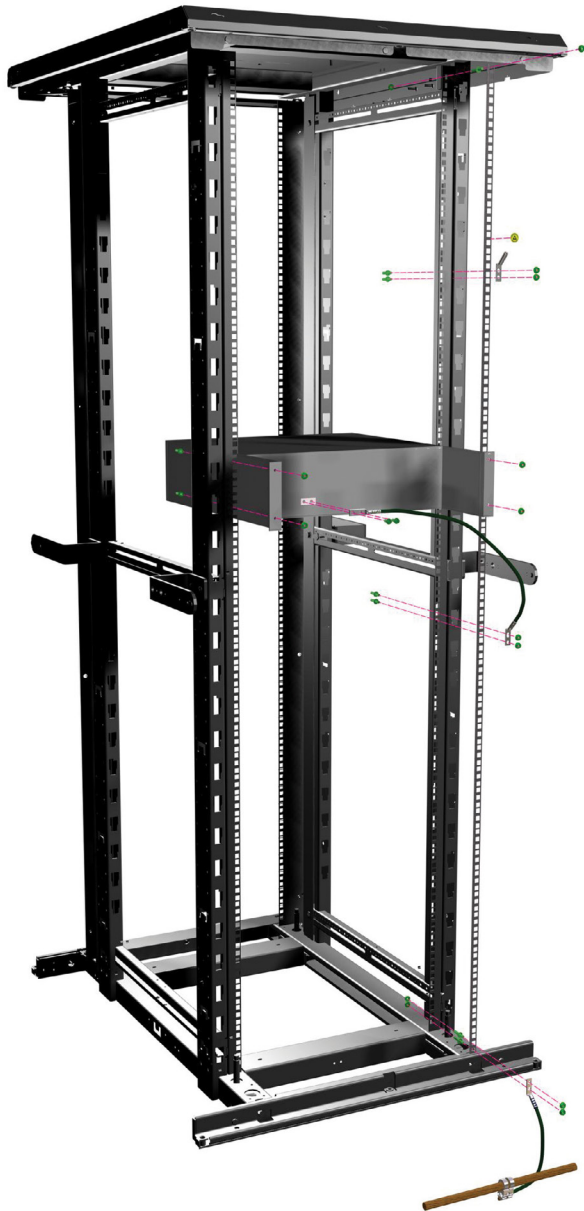
Hardware is also available for mounting to
thru-hole, M5, and M6 rails. All Panduit®
Net-Access™ and 4-Post Racks
Cabinets are fully bonded and compatible
with StructuredGround™ Grounding System.

*Add CN for Cage Nut Rails

+Heights: 96 (8 ft.)

^Colors other than black: WH (White)

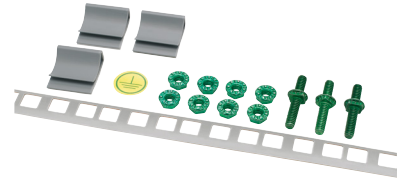
StructuredGround™ Grounding Kits for Net-Access™ Cabinets and 4-Post Racks



Cage nut hardware shown, kits also available for threaded rails.

Grounding Strip Kit:

Provides a bond between the grounding strip and rack or cabinet, eliminating the need to scrape paint



Bonding Hardware Kit:

Patent pending, bonds equipment and patch panels to the front or back of the rack or cabinet



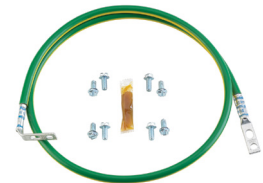
Electrostatic Discharge (ESD) Port Kit:

Bent 45° acts as a hook to hold ESD wrist strap



Equipment Jumper Kit:

Bonds network equipment to the grounding strip or grounding busbar



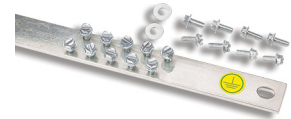
Common Bonding Network (CBN) Jumper Kit:

Connects grounding strip or grounding busbar to MCBN in underfloor and overhead grounding applications



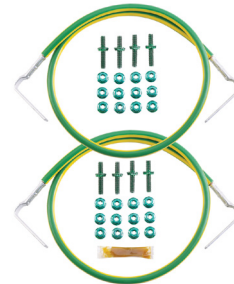
Grounding Busbar Kit:

Provides the common grounding point within the cabinet



Front-to-Back Rail Jumper Kit:

Patent pending hardware bonds the front and back cabinet rails to the cabinet grounding busbar



*For use with unbonded cabinet; not required for Net-Access™ Cabinets or 4-Post Racks

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