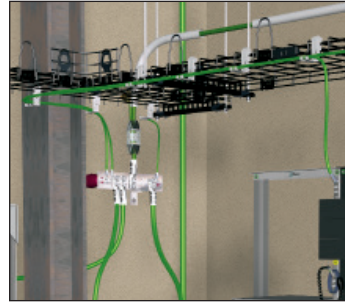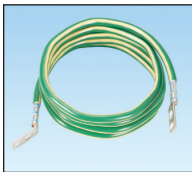# StructuredGround™ Telecommunications Room Grounding and Bonding Kits for TIA-607-C Compliance

## specifications

Grounding and bonding kits shall bond each rack to Secondary Bonding Busbar (SBB) also known as Telecommunications Grounding Busbar (TGB) using Telecommunications Equipment Bonding Conductor (TEBC). Hardware kit shall bolt TEBC to SBB/TGB with 1/4" stainless steel hardware. Each bolt requires a nut, flat washer on both sides, and a Belleville washer on the bolt side of the stack up. TEBC shall be bolted to rack with #12-24 thread-forming screws. Abrasive cleaning pad shall remove oxidation from lug and mounting surfaces. Copper to copper joint compound shall also be utilized to prep lug mounting surfaces. The front and back of each rack requires one ESD Port Kit and ESD wrist strap. Bond SBB/TGB to electrical panel serving equipment in telecommunications room.
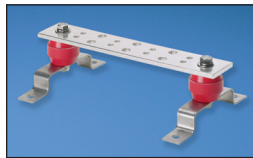
## kit information



**TEBC Kits:**
Pre-terminated jumper on both ends – #6 AWG jumper with 45° bent lug on rack side to straight lug on SBB/TGB.

| Part Number | Length In. |
|---|---|
| GJ672UH | 72 |
| GJ696UH | 96 |
| GJ6120UH | 120 |
| GJ6144UH | 144 |
| GJ6168UH | 168 |
| GJ6192UH | 192 |
| GJ6216UH | 216 |
| GJ6240UH | 240 |
| GJ6264UH | 264 |
| GJ6288UH | 288 |



**TEBC Kits:**
Pre-terminated jumper on one end only – #6 AWG jumper with 45° bent lug for bonding to rack.

| Part Number | Length In. |
|---|---|
| GJS660U | 60 |
| GJS696U | 96 |
| GJS6120U | 120 |
| GJS6180U | 180 |



**SBB/TGB Kits:**
Pre-assembled with brackets and insulators – bar size 1/4" x 2".

| Part Number | Bar Length In. | 1/4" Stud Hole with 5/8" Hole Spacing | 3/8" Stud Hole with 1" Hole Spacing |
|---|---|---|---|
| GB2B0304TPI-1 | 10 | 4 | 3 |
| GB2B0306TPI-1 | 12 | 6 | 3 |
| GB2B0312TPI-1 | 20 | 12 | 3 |



**Compression Lugs for SBB/TGB:**
Two-hole straight tongue compression lug with window.

| Part Number | Copper Conductor Size | Stud Hole Size In. | Stud Hole Spacing In. |
|---|---|---|---|
| LCC6-14JAW-L | #6 AWG | 1/4 | 0.50 – 0.63 |
| LCC2-14AW-Q | #2 AWG | 1/4 | 0.63 |
| LCC1/0-14AW-X | 1/0 AWG | 1/4 | 0.63 |
| LCC3/0-38DW-X | 3/0 AWG | 3/8 | 1.00 |
| LCC4/0-38DW-X | 4/0 AWG | 3/8 | 1.00 |



**Armored Fiber Cable Grounding Kits:**
Pre-terminated jumper on both ends – straight lug and terminal. Provided with mechanical clamp and cover for terminal and two each #12-24 and M6 hex head thread-forming screws.

| Part Number | Armored Cable Diameter In. | Grounding Cable Length In. |
|---|---|---|
| ACG24K | Up to 0.84 | 24 |
| ACG24K-500 | 0.84 to 1.03 | 24 |

## Related Products

**Hardware Kits: include 2 bolts, 2 nuts, 4 flat washers, 2 Belleville washers for SBB/TGB and 2 thread-forming screws for racks**

| | |
|---|---|
| 1/4" kit with #12-24 and M6 screws: | HDW1/4-KT |
| 3/8" kit with #12-24 and M6 screws: | HDW3/8-KT |
| 1/4" kit with #10-32 and M5 screws: | HDW1/4-A-KT |
| 3/8" kit with #10-32 and M5 screws: | HDW3/8-A-KT |

**Stainless Steel Bolts**

| | |
|---|---|
| 1/4-20 | SSNTS1420-C |
| 3/8-18 | SSNTS3816-C |

**Stainless Steel Belleville Washers**

| | |
|---|---|
| 1/4" | SSCW14-C |
| 3/8" | SSCW38-C |

**Stainless Steel Flat Washers**

| | |
|---|---|
| 1/4" | SSFW14-C |
| 3/8" | SSFW38-C |

**Stainless Steel Nuts**

| | |
|---|---|
| 1/4-20 | SSN1420-C |
| 3/8-18 | SSN3816-C |

**Abrasive Cleaning Pad**

| | |
|---|---|
| 4-1/2" x 6" | HANDPAD |

**ESD Port**

| | |
|---|---|
| Two-hole ESD port with banana jack: | RGESD2-1 |

**ESD Wrist Strap**

| | |
|---|---|
| 6' coil cord, banana plug, 1 megohm resistor: | RGESDWS |

**Equipment Jumper Kits: include .16 oz. of antioxidant and two each #12-24 x 1/2" and M5 x 12mm thread-forming screws**
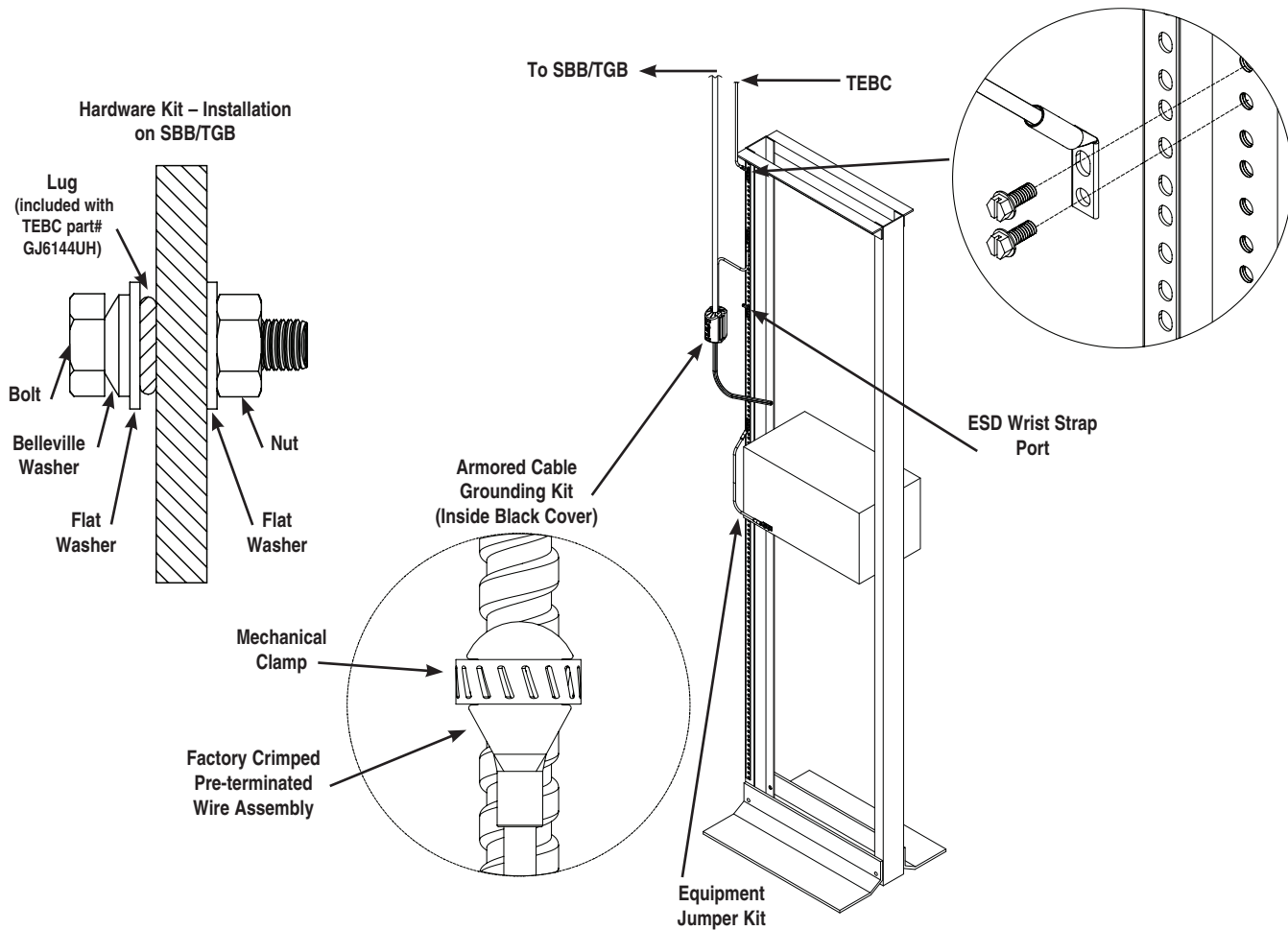
| | |
|---|---|
| #6 AWG jumper, 57" length, bent lug on grounding strip side: | RGEJ657PFY |
| #6 AWG jumper, 24" length, bent lug on grounding strip side to straight lug on equipment: | RGEJ624PFY |

## applications

StructuredGround™ Telecommunications Room Grounding and Bonding Kits deliver a complete grounding solution, designed to exceed industry standards for ensured electrical continuity and ease of installation. Bonding of rack and equipment to SBB/TGB and proper ESD protection is critical to the reliability and safety needs of the physical infrastructure. Integrated technology from Panduit addresses comprehensive grounding and bonding needs to protect systems, equipment, and personnel for optimum availability of services and lower operational costs. As solution architecture, a range of installation tooling, design software, and services complement StructuredGround™ Grounding System.

For the complete StructuredGround™ Grounding System offering, refer to www.panduit.com/dcgrounding.

## bill of materials (example):

The following sample bill of materials and installation drawings are provided to assist you with ordering and kit combinations to meet your application needs.

| Description | Part Number | Qty |
|---|---|---|
| SBB/TGB Kit | GB2B0306TPI-1 | 1 per Telecommunications Room |
| TEBC Kit | GJ6144UH | 1 per Rack/Cabinet |
| Hardware Kit | HDW1/4-KT | 1 per Rack/Cabinet |
| Equipment Jumper Kit | RGEJ657PFY | 1 per Equipment |
| | | |
| ESD Port | RGESD2-1 | 2 per Rack/Cabinet (one front and one back) |
| ESD Wrist Strap | RGESDWS | 2 per Rack/Cabinet (one front and one back) |
| | | |
| Armored Fiber Cable Grounding Kit | ACG24K | 1 per Armored Fiber Cable |

**Hardware Kit – Installation on SBB/TGB**

Lug (included with TEBC part# GJ6144UH)

Bolt

Belleville Washer

Flat Washer

Nut

Flat Washer

To SBB/TGB

TEBC

ESD Wrist Strap Port

Armored Cable Grounding Kit (Inside Black Cover)

Mechanical Clamp

Factory Crimped Pre-terminated Wire Assembly

Equipment Jumper Kit

For the complete StructuredGround™ Grounding System offering, refer to www.panduit.com/dcgrounding.

**For more information**

### Visit us at www.panduit.com

**Contact Customer Service by email: cs@panduit.com or by phone: 800.777.3300 and reference GRSP10**

**PANDUIT®**