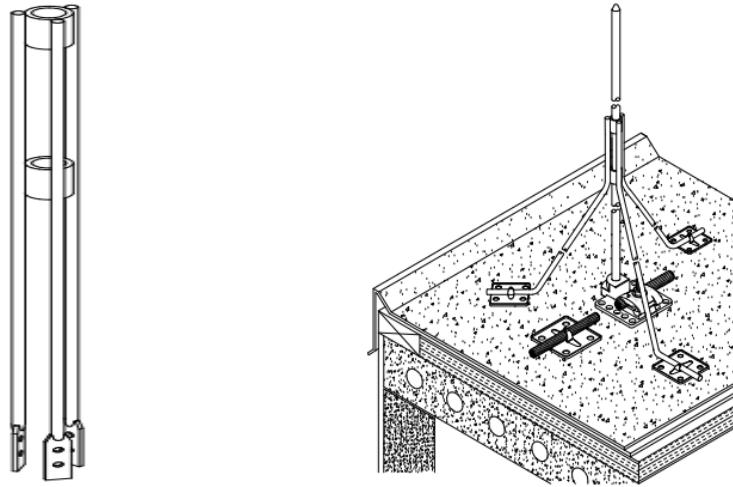


Installation Instructions for Air Terminal Braces

Part Number: 140-XX (copper) or A140-XX (aluminum)



Description:

Galvanized steel tripod braces are used for the support of air terminals that exceed 24" in length. The braces are constructed of 1/4" steel rod with welded joints and Ultraseal plating. Braces have 3/16" holes for anchoring with screws or nails. Braces can be ordered with adhesive feet when mounting to roofing membranes or similar surfaces where penetrations can't be made. Part lengths are overall dimensions and not installed lengths.

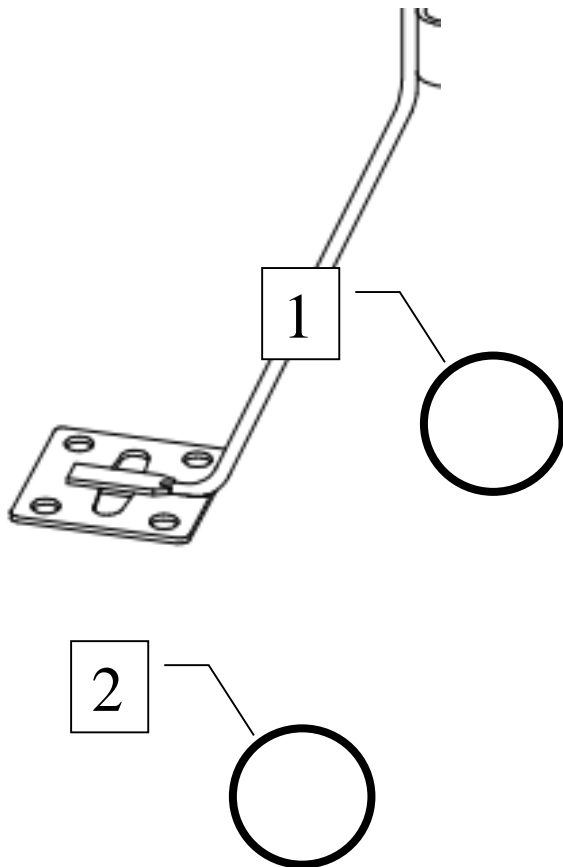
Part No.	Adhesive Feet Copper/Aluminum	Type	Standard Lengths	Max. Air Terminal Supported	Box Qty.	Approx. Box Wt. (lbs.)
140-18	-----	Screw Hole	18"	24"	10	12-1/2
140-18AD	Copper	Adhesive Feet	18"	24"	10	12-3/4
A140-18AD	Aluminum	Adhesive Feet	18"	24"	10	12-3/4
140-24	-----	Screw Hole	24"	36"	10	16
140-24AD	Copper	Adhesive Feet	24"	36"	10	16-1/4
A140-24AD	Aluminum	Adhesive Feet	24"	36"	10	16-1/4
140-36	-----	Screw Hole	36"	60"	10	20
140-36AD	Copper	Adhesive Feet	36"	60"	10	20-1/4
A140-36AD	Aluminum	Adhesive Feet	36"	60"	10	20-1/4
140-48	-----	Screw Hole	48"	72"	10	22
140-48AD	Copper	Adhesive Feet	48"	72"	10	22-1/4
A140-48AD	Aluminum	Adhesive Feet	48"	72"	10	22-1/4

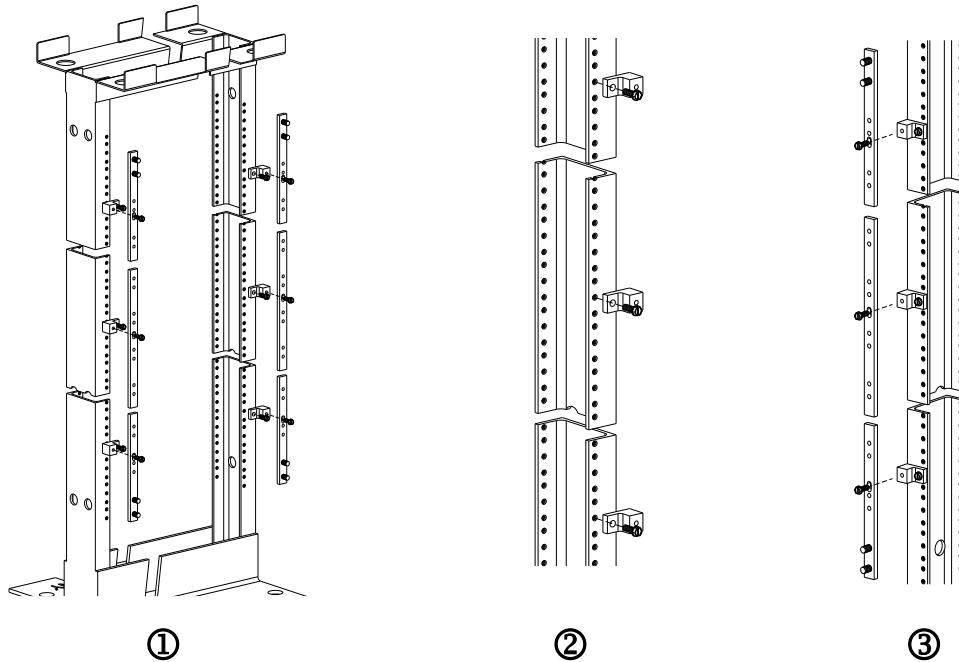
Technical Note:

Air terminals shall be secured against overturning or displacement by one of the following methods: (1) Attachment to the object to be protected (2) Braces that are permanently and rigidly attached to the structure. Air terminals exceeding 24 in. (600 mm) in height above the area or object they are to protect shall be supported at a point not less than one-half their height.
*NFPA 780 Air Terminal Support Sections 4.6.3.1 & 4.6.3.2

Instructions:

- ① Locate mounting area on the equipment rack for the RGBV (RGBV mounts on either the right or left side rails).
- ② Mount the three insulators to rack with required screws with washers (purchased separately).
- ③ Mount the RGBV to the insulators with the provided #12-24 thread forming screws with washers.
- ④ Bond the rack and the RGBV to either the telecommunication equipment bonding conductor (TEBC) or to the signal reference grid (SRG) with no. 2 AWG (35 mm²) conductor (no. 6 (16 mm²) minimum conductor). (Note: See Table 1 for conductor size / length limitations).
- ⑤ Bond all equipment on the rack to the RGBV





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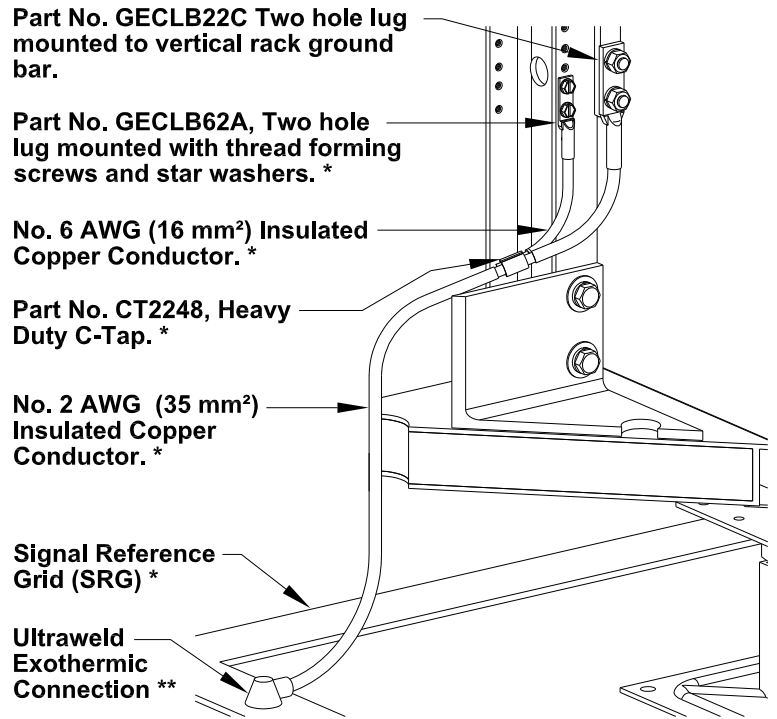
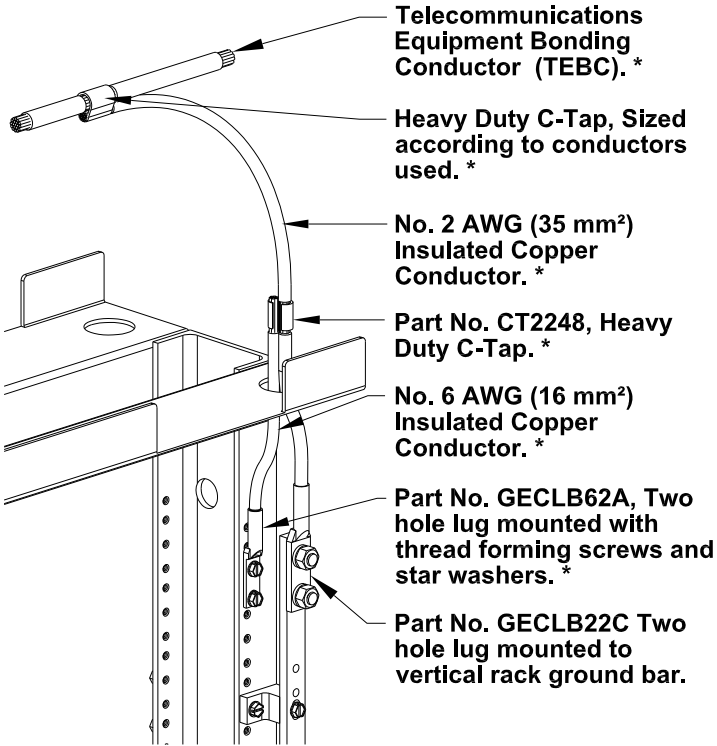
Conductor Size AWG (mm ²)	Conductor Length ft (m)
6 (16)	< 13 (4)
4 (25)	> 13 – < 20 (4-6)
3 (25*)	> 20 – < 26 (6-8)
2 (35)	> 26 – < 33 (8-10)
1 (35*)	> 33 – < 41 (10-13)



Table 1 –
sizing

1/0 (50)	> 41 – < 52 (13-16)
2/0 (70)	> 52 – < 66 (16-20)
3/0 (95)	> 66 (20)
(*) This is the closest mm ² equivalent to the AWG conductor size	

Conductor

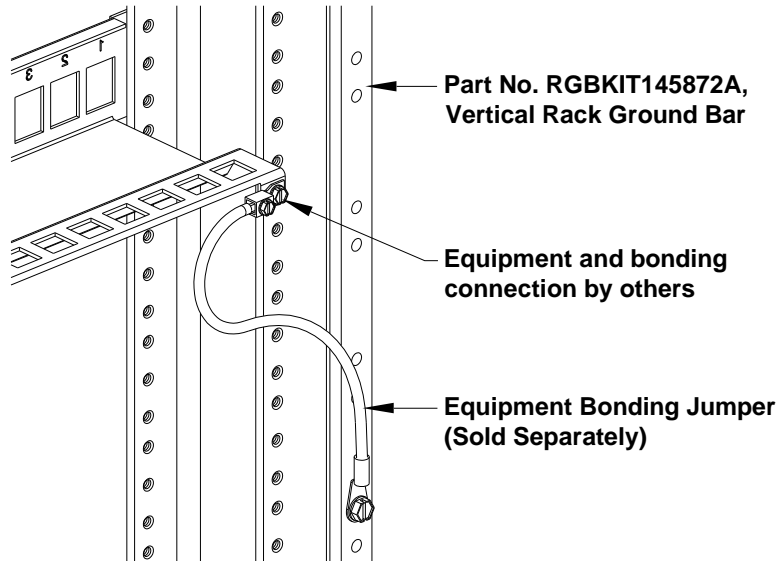


RGBV to TEBC BONDING DETAIL ④

RGBV to SRG BONDING DETAIL ④

* Items sold separately.

**Refer to Harger Catalog or Website for more information on Ultraweld Exothermic Connections.



Equipment Bonding Detail ⑤