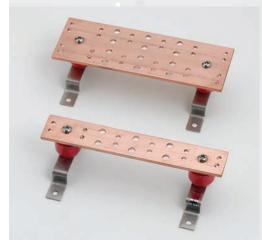


Solutions for data comm applications







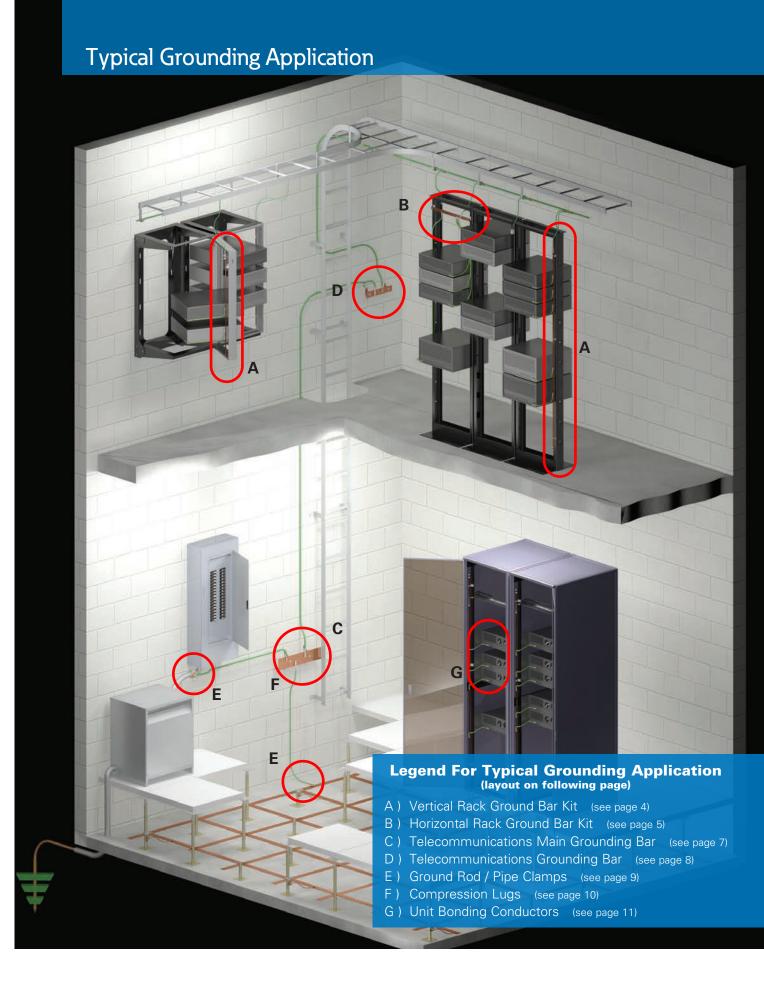


### **Overview & Table of Contents**

Eaton offers a complete portfolio of grounding solutions for network room applications in support of BICSI and ANSI/TIA/EIA-607 compliant installations.

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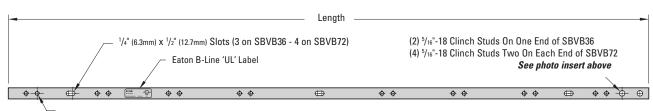
### **Vertical Rack Ground Bar & Kits**

#### Features:

- Provides a vertical ground path between equipment mounted on the rack
- Typically used on two post or four post racks
- Blank end and studded end can be attached together to splice bars
- Isolators may be used to separate bar from rack (or omitted depending on application grounding scheme)
- Kit includes
  - 1 Vertical rack ground bar
  - 3 Insulators
  - 1 #2 compression lug
  - 8  $\frac{1}{4}$ "-20 x  $\frac{1}{2}$ " SS4 hex bolts & lock washers
  - 4 5/16"-18 SS4 hex nut & lock washers
  - $3 #12-24 \times \frac{5}{8}$ " yellow zinc hex washer bolts
- Material: 1/4" x 5/8" copper bar





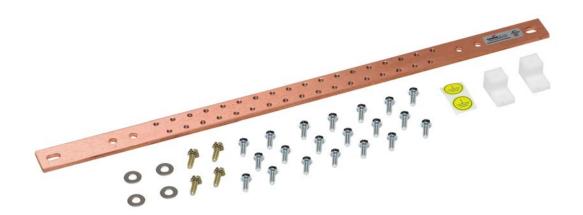


1/4"-20 Tapped Holes (16) On SBVB36 1/4"-20 Tapped Holes (26) On SBVB72

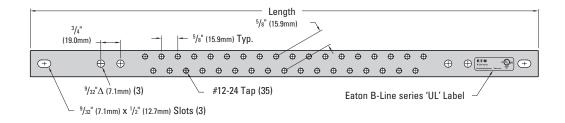
		Length		Wt.	/Ea.
Part Number	Includes	in.	mm	lbs.	kg
SBVB36	Ground Bar Only	36"	914	2.0	0.91
SBVB36K	Bar & Hardware Kit	36"	914	2.2	1.00
SBVB72	Ground Bar Only	72"	1828	3.7	1.69
SBVB72K	Bar & Hardware Kit	72"	1828	3.9	1.77

### Horizontal Rack Ground Bar Kit

- Used to consolidate grounds on the equipment rack
- Typically used on two post or four post racks
- Isolators may be used to separate bar from rack (or omitted depending on application grounding scheme)
- Kit includes
  - 1 Horizontal rack ground bar
  - 2 White insulators
  - $4 #12-24 \times \frac{5}{8}$ " (15.9mm) zinc plated screws & flat washers
  - 20 #12-24 x  $^{1}/_{2}$ " (12.7mm) zinc plated screws
  - 2 Ground labels
- Material: 3/16" (4.7mm) x 1" (25.4mm) copper bar



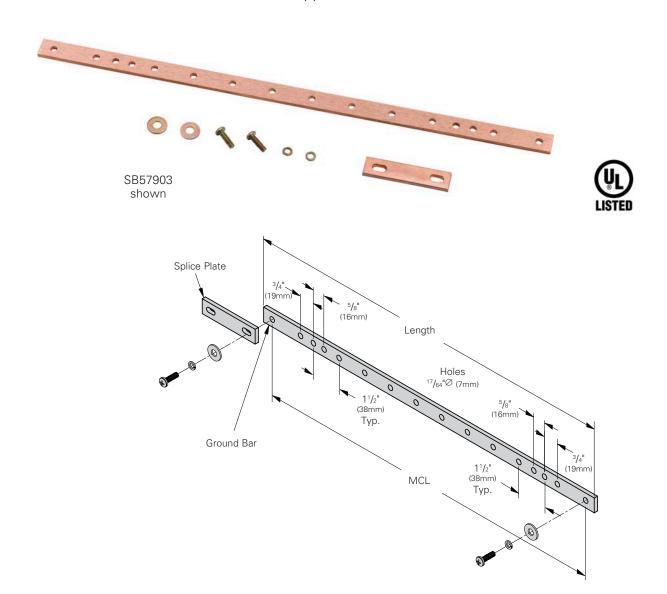




	Rack	Width		Len	gth	Wt.	/Ea.
Part Number	in.	mm	Includes	in.	mm	lbs.	kg
SBHB119K	19"	482	Bar & Hardware Kit	19 ³/₅"	492	3.0	1.36

## **Universal Grounding Bar**

- Used as a rack mounted equipment grounding bus
- Kit includes
  - 1 Ground bar
  - 1 Splice plate
  - $2 #12-24 \times ^{3}/_{4}$ " (19.0mm) yellow zinc plated screws
  - 2 #12 yellow zinc plated lock washers
  - 2 1/4" yellow zinc plated flat washers
- Material: <sup>3</sup>/<sub>16</sub>" (4.7mm) x <sup>3</sup>/<sub>4</sub>" (19.0mm) copper bar



	Rack	Width	Length (overall)		MC (mtg. centers)		Holes	Wt.	/Ea.
Part Number	in.	mm	in.	mm	in.	mm		lbs.	kg
SB57903	19"	482	19 <sup>5</sup> /16"	490	18 <sup>5</sup> /16"	465	16	1.0	0.04
SB57904	23"	584	23 5/16"	592	22 5/16"	567	18	1.2	0.05

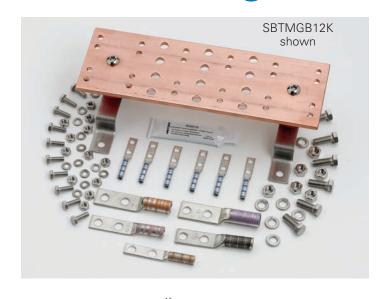
## **Telecommunications Main Grounding Bar**

#### **Features:**

- Used as a central consolidation point for telecommunications and other low voltage systems within the room
- Typically located on wall or entry room where exterior ground enters building
- Kit includes
  - 1 Grounding bar assembly
  - 6 #6 compression lugs

1 each - #2, 1/0, 2/0, 3/0 compression lugs 12 each - 1/4"-20 x 3/4" (19.0mm) SS4 hex bolts, hex nuts & lock washers

6 each - 3/8"-16 x 1" (25.4mm) SS4 hex bolts, hex nuts & lock washers



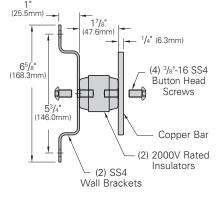


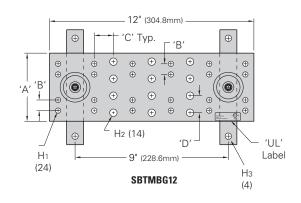


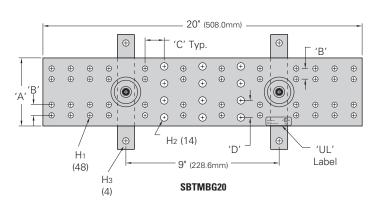
### Dimensional Data

A = 4" (101.6mm)  $B = {}^{5}/{s}$ " (15.8mm)  $C = 1{}^{1}/{4}$ " (31.7mm) D = 1" (25.4mm)

H<sub>1</sub> =  ${}^{5}/{}_{16}{}^{"}\varnothing$  (7.9mm) H<sub>2</sub> =  ${}^{7}/{}_{16}{}^{"}\varnothing$  (11.1mm) H<sub>3</sub> =  ${}^{3}/{}_{8}{}^{"}\varnothing$  (9.5mm)







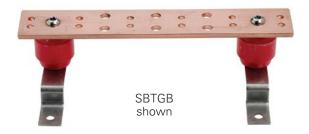
		Length		Wt.	/Ea.
Part Number	Includes	in.	mm	lbs.	kg
SBTMGB12	Grounding Bar Assy	12"	305	4.7	2.13
SBTMGB12K	Bar Assy & Hardware Kit	12"	305	7.7	3.49
SBTMGB20	Grounding Bar Assy	20"	508	7.1	3.22
SBTMGB20K	Bar Assy & Hardware Kit	20"	508	10.1	4.58

### **Telecommunications Grounding Bar Kit**

#### **Features:**

- Provides a common grounding point within the telecommunications room
- Typically is located on wall of data room
- Kit includes
  - 1 Grounding bar assembly
  - 6 #6 compression lugs
  - 1 each #2, 1/0, 2/0, 3/0 compression lugs
  - 12 each 1/4"-20 x 3/4" (19.0mm) SS4 hex bolts, hex nuts & lock washers
  - 6 each  $\frac{3}{8}$ "-16 x 1" (25.4mm) SS4 hex bolts, hex nuts & lock washers
- Material: Copper bar & SS4 wall brackets







#### Dimensional Data

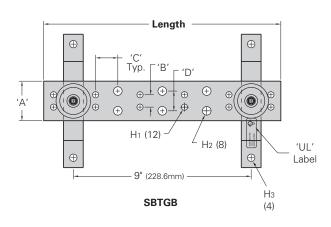
A = 2" (50.8mm)

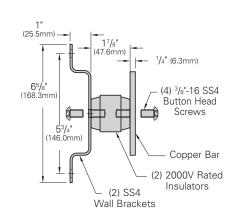
 $B = \frac{5}{8}$ " (15.8mm)

 $C = 1^{1}/4$ " (31.7mm) D = 1" (25.4mm)

 $H_1 = \frac{5}{16} \% (7.9 \text{mm})$ 

 $H_2 = \frac{7}{16} \% (11.1 \text{mm})$  $H_3 = \frac{3}{8} \% (9.5 mm)$ 

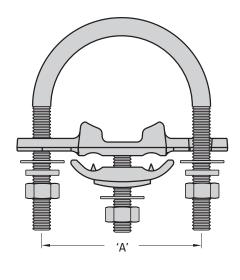


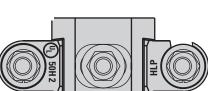


		Length		Wt.	/Ea.
Part Number	Includes	in.	mm	lbs.	kg
SBTGB	Grounding Bar Assy	12"	305	2.91	1.32
SBTGBK	Bar Assy & Hardware Kit	12"	305	4.91	2.23

# **Ground Rod / Pipe Clamps**

- Used to attach ground wire to raised floor pedestals
- Ground wire system inside floor can be used to ground Flextray™ F.A.S.T. System trays
- Sized for ground wires 6 AWG stranded through 250MCM
- 5/16" hardware included
- Material: SS4 U-bolt and hardware tinned bronze casting







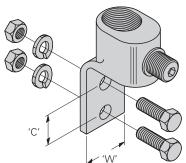


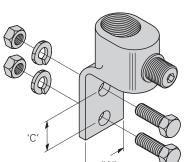
	Pipe Size (nominal)			Ą	Wt.	/Ea.
Part Number	in.	mm	in.	mm	lbs.	kg
SBPC050075	1/2" - 3/4"	15 - 20	1.57"	39.9	0.47	0.21
SBPC100125	1" - 1 <sup>1</sup> / <sub>4</sub> "	25 - 32	2.03"	51.5	0.79	0.36
SBPC150200	11/2" - 2"	40 - 50	2.75"	69.8	0.75	0.34
SBPC250300	21/2" - 3"	65 - 80	3.87"	98.3	0.95	0.43
SBPC350400	31/2" - 4"	90 - 100	4.87"	123.7	1.21	0.55
SBPC500600	5" - 6"	125 - 150	7.00"	177.8	1.70	0.77

## **Two-Hole Mechanical Lug**

### Features:

- Use for connection of electric wire to grounding bus
- Setscrew may be either allen head or hex head
- Includes: silicon bronze hardware
- Additional sizes available
- Sold individually
- Material: Copper alloy



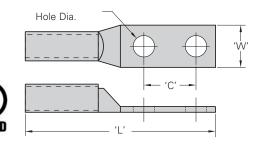




	Wire 'C		2′	'W'			Wt./Ea.	
Part Number	Size	in.	mm	in.	mm	Size	lbs.	kg
SB47801	#14 to #8	5/8"	16	1/2"	13	#10-24	0.05	0.02
SB47802	#8 to #4	5/8"	16	1/2"	13	1/4"-20	0.07	0.03
SB47803	#4 to #1	3/4"	19	<sup>5</sup> /8"	16	1/4"-20	0.14	0.06
SB47804	#1 to 2/0	1"	25	<sup>13</sup> / <sub>16</sub> "	20	<sup>3</sup> /8"-16	0.23	0.10

### **Compression Lugs (Long Barrel)**

- Use for connection of electric grounding wire to grounding bus
- Sold in package of 10 pcs.
- Material: Tinned Copper





	Lug Size &	Hole	Dia.	'V	V′	1	L'	'(	<b>C</b> ′	Wt./	Pkg.
Part Number	# of Holes	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
SBCL 1	2/0 - 2 Hole	<sup>13</sup> / <sub>32</sub> "	10.3	<sup>13</sup> / <sub>16</sub> "	20.6	3 21/32"	92.8	1"	25.4	6.0	2.72
SBCL 2	2/0 - 2 Hole	<sup>17</sup> / <sub>32</sub> "	13.5	<sup>13</sup> / <sub>16</sub> "	20.6	4 <sup>7</sup> / <sub>8</sub> "	123.8	1 3/4"	44.4	14.0	6.35
SBCL 3	3/0 - 2 Hole	<sup>9</sup> / <sub>16</sub> "	14.3	<sup>15</sup> / <sub>16</sub> "	23.8	3 3/4"	95.2	1"	25.4	20.0	9.07
SBCL 4	4/0 - 2 Hole	<sup>9</sup> /16"	14.3	1"	25.4	3 29/32"	99.2	1"	25.4	20.0	9.07



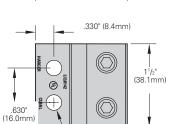
### Lay-In Lug

#### **Features:**

- Used to attach ground wires to racks or cabinets
- Sold in package of 10 pcs.
- Setscrews (2): 3/8"-24 Hex Head Oval Point
- Material: Aluminum tin plated

	Lug Size	Wt./Pkg.		
Part Number		lbs.	kg	
SBLL 1	2/0 - #14AWG	2.40	1.09	





9/32"Ø (7.1mm) (2 Holes)

1.660" (42.1mm)



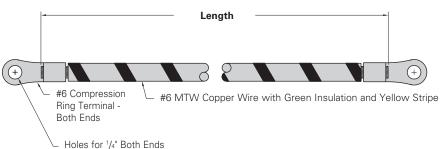


### **Unit Bonding Conductor**

- Used to bond electronic equipment to vertical or horizontal rack mount busbars
- Sold in packages of 5 with aluminum joint compound
- Material: Copper wire



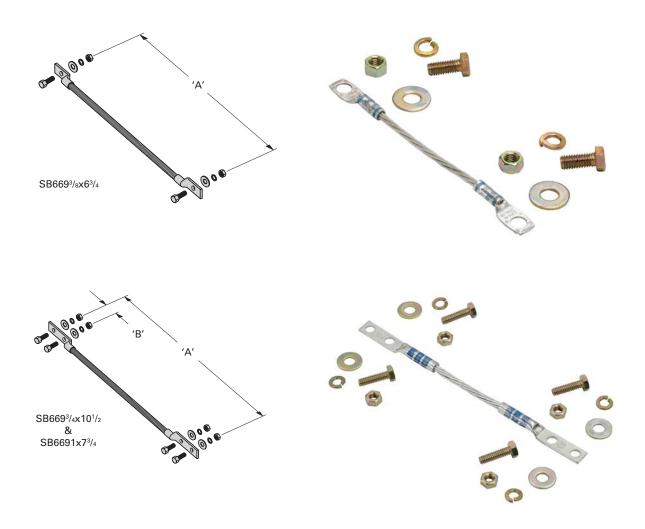




	Len	gth	Wt.	/Ea.
Part Number	in.	mm	lbs.	kg
SBUBC614K	14"	355	1.45	0.66
SBUBC618K	18"	457	1.45	0.66
SBUBC632K	32"	813	2.54	1.15

## **Grounding Strap**

- Use to provide grounding path
- SB669 $^3$ /<sub>4</sub>x10 $^1$ /<sub>2</sub> and SB6691x7 $^3$ /<sub>4</sub> includes: (1) cable with crimped lugs and 1/4"-20 hardware
- SB669<sup>3</sup>/<sub>8</sub>x6<sup>3</sup>/<sub>4</sub> includes: (1) cable with crimped lugs and <sup>3</sup>/<sub>8</sub>"-16 hardware
- Material: #6 flexible tin plated copper wire



	Ά.	Ά′		3′	Wt./Ea.		
Part Number	in.	mm	in.	mm	lbs.	kg	
SB669 <sup>3</sup> / <sub>4</sub> x10 <sup>1</sup> / <sub>2</sub>	10 1/2"	267	3/4"	19	.36	0.16	
SB6691x7 <sup>3</sup> / <sub>4</sub>	7 3/4"	197	1"	25	.27	0.12	
SB669 <sup>3</sup> / <sub>8</sub> x6 <sup>3</sup> / <sub>4</sub>	6 3/4"	171	N/A	N/A	.20	0.09	

## **Crimp Tool**

### Features:

- Used to attach ground lugs to electrical wire
- Sold per piece
- 10<sup>1</sup>/<sub>2</sub>" (266mm) in length



	Wt.	Wt./Ea.	
Part Number	lbs.	kg	
SBTCR	2.00	0.91	

## **Dieless Compression Tool**

- Used to attach ground lugs to electrical wire
- Sold per piece
- 24" (609mm) in length





	Wt./Ea.	
Part Number	lbs.	kg
SBTCO	5.00	2.27

# **Joint Compound**

### Features:

- Improves electrical continuity at a grounding or bonding connection
- Sold in packages of 12
- 1/2 ounce per package

	Material	Wt./Pkg.	
Part Number		lbs.	kg
SBJCA	Aluminum	0.37	0.17
SBJCC	Copper	0.37	0.17



### **Cross Reference**

Part Number	СРІ	Panduit
SBCL1	40162-959	LCC2/0-38DW-X
SBCL2	40162-960	LCCX2/0-12-X
SBCL4	40162-961	LCCX4/0-38D-X
SBJCA	40166-812	CMP-300-1
SBJCC	40168-812	CMP-200-1
SBPC050075	40170-001	GPL series
SBPC100125	40170-002	GPL series
SBPC150200	40170-003	GPL series
SBPC250300	40170-004	GPL series
SBPC350400	40170-005	GPL series
SBPC500600	40170-006	GPL series
SBTCO	40165-001	CT-930
SBTCR	40165-002	CT-1700
SBTGB	40156-012	
SBTMGB12	40153-012	GB2B0306TPI-1
SBTMGB12K	40158-012	
SBTMGB20	40153-020	GB4B0624TPI-1
SBTMGB20K	40158-020	
SBVB36	40160-036	
SBVB36K	40161-036	
SBVB72	40160-072	
SBVB72K	40161-072	RGS134-1Y





**RS Enclosure** 

High Density Network Rack (HDNR) System



RCM+ / RCM Rack



Redi-Rail™

For more information, visit Eaton.com/blineseries



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