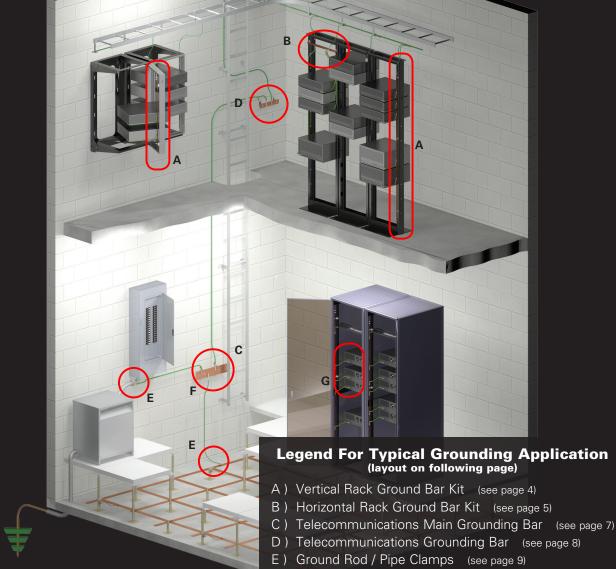
#### **Grounding** Solutions for Data Center Applications



- F) Compression Lugs (see page 10)
- G) Unit Bonding Conductors (see page 11)

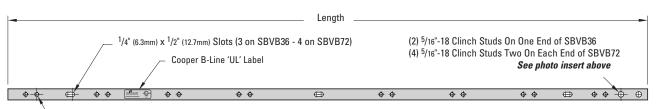


### Vertical Rack Ground Bar & Kits

- 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 1/4"-20 x 1/2" SS4 hex bolts & lock washers
  - 4 <sup>5</sup>/16"-18 SS4 hex nut & lock washers
  - 3 #12-24 x <sup>5</sup>/8" yellow zinc hex washer bolts
- Material: 1/4" x 5/8" copper bar



SBVB36 shown



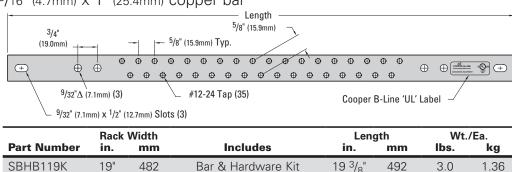
<sup>1</sup>/4"-20 Tapped Holes (16) On SBVB36 <sup>1</sup>/4"-20 Tapped Holes (26) On SBVB72

		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

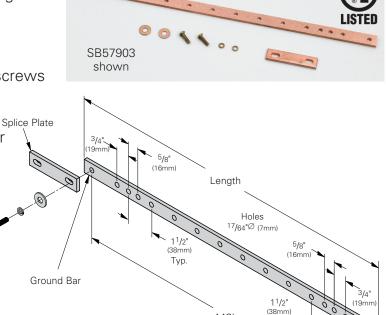
- Used to consolidate grounds on the equipment rack
- Typically used on two post or four post racks
- Isolators may be used to separate bar from rack (or omitted depending on application grounding scheme)
- Kit includes
  - 1 Horizontal rack ground bar
  - 2 White insulators
  - 4 #12-24 x <sup>5</sup>/8" (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





### **Universal Grounding Bar**

- Used as a rack mounted equipment grounding bus
- Kit includes
  - 1 Ground bar
  - 1 Splice plate
  - 2 #12-24 x 3/4" (19.0mm) yellow zinc plated screws
  - 2 #12 yellow zinc plated lock washers
  - 2 1/4" yellow zinc plated flat washers
- Material: 3/16" (4.7mm) x 3/4" (19.0mm) copper bar



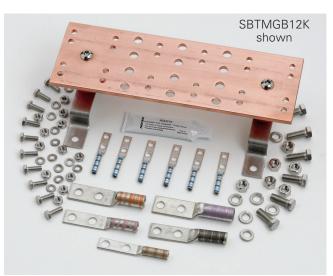
MCL

Тур

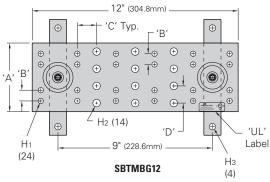
	Rack Width		Length	(overall)	MC (mtg.	centers)	Holes	Wt.	/Ea.
Part Number	in.	mm	in.	mm	in.	mm		lbs.	kg
SB57903	19"	482	19 <sup>5</sup> / <sub>16</sub> "	490	18 <sup>5</sup> / <sub>16</sub> "	465	16	1.0	0.04
SB57904	23"	584	23 <sup>5</sup> / <sub>16</sub> "	592	22 <sup>5</sup> / <sub>16</sub> "	567	18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

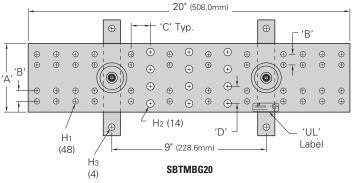
### **Telecommunications Main Grounding Bar**

- 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 <sup>1</sup>/4"-20 x <sup>3</sup>/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





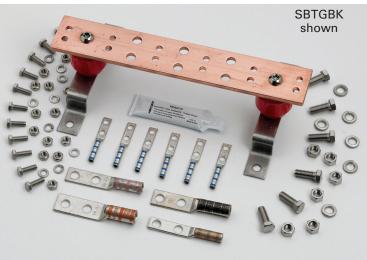




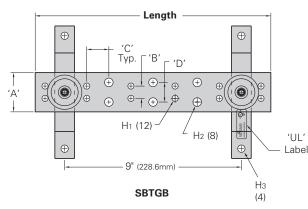
		Length		Wt./Ea.		
Part Number	Includes	in.	mm	lbs.	kg	
SBTMGB12	Grounding Bar Assy	12"	305	4.7	2.13	
SBTMGB12K	Bar Assy & Hardware Kit	12"	305	7.7	3.49	
SBTMGB20	Grounding Bar Assy	20"	508	7.1	3.22	
SBTMGB20K	Bar Assy & Hardware Kit	20"	508	10.1	4.58	

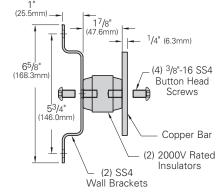
### **Telecommunications Grounding Bar Kit**

- 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 - <sup>1</sup>/4"-20 x <sup>3</sup>/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
- Material: Copper bar & SS4 wall brackets





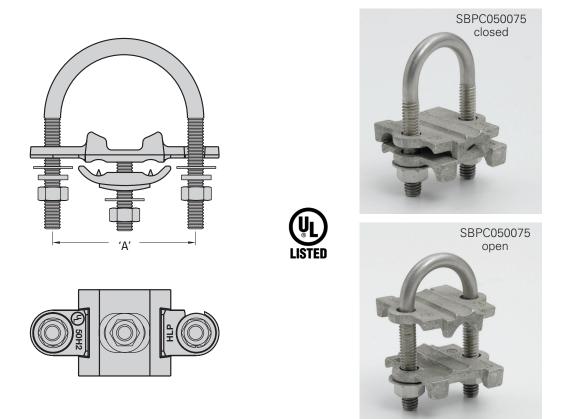




		Length		Wt./Ea.		
Part Number	Includes	in.	mm	lbs.	kg	
SBTGB	Grounding Bar Assy	12"	305	2.91	1.32	
SBTGBK	Bar Assy & Hardware Kit	12"	305	4.91	2.23	

### Ground Rod / Pipe Clamps

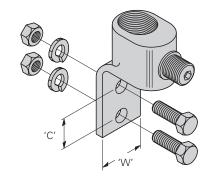
- Used to attach ground wire to raised floor pedestals
- Ground wire system inside floor can be used to ground Flextray™ F.A.S.T. System trays
- Sized for ground wires 6 AWG stranded through 250MCM
- 5/16" hardware included
- Material: SS4 U-bolt and hardware tinned bronze casting



	Pipe Size (nominal)			4	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> /4"	25 - 32	2.03"	51.5	0.79	0.36
SBPC150200	1 <sup>1</sup> /2" - 2"	40 - 50	2.75"	69.8	0.75	0.34
SBPC250300	2 <sup>1</sup> /2" - 3"	65 - 80	3.87"	98.3	0.95	0.43
SBPC350400	3 <sup>1</sup> /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**

- 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

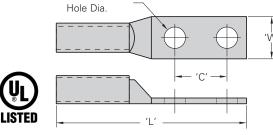




	Wire	"(	C'	Ϋ́	ľ	Bolt	Wt.	/Ea.
Part Number	Size	in.	mm	in.	mm	Size	lbs.	kg
SB47801	#14 to #8	<sup>5</sup> /8"	16	<sup>1</sup> /2"	13	#10-24	0.05	0.02
SB47802	#8 to #4	5/8"	16	1/2"	13	<sup>1</sup> /4″-20	0.07	0.03
SB47803	#4 to #1	3/4"	19	5/8"	16	<sup>1</sup> /4″-20	0.14	0.06
SB47804	#1 to 2/0	1"	25	<sup>13</sup> /16"	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.	٢٧	V′	"[	<u>'</u>	·(	5′	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> /32"	10.3	<sup>13</sup> /16"	20.6	3 <sup>21</sup> /32"	92.8	1"	25.4	6.0	2.72
SBCL 2	2/0 - 2 Hole	17/32"	13.5	<sup>13</sup> /16"	20.6	4 7/8"	123.8	1 3/4"	44.4	14.0	6.35
SBCL 3	3/0 - 2 Hole	<sup>9</sup> /16"	14.3	15/16"	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 <sup>29</sup> /32"	99.2	1"	25.4	20.0	9.07

# Lay-In Lug

**Part Number** 

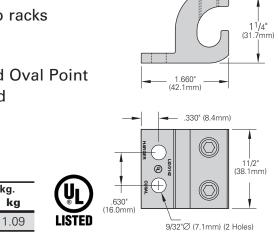
SBLL 1

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

Lug Size

2/0 - #14AWG

• Material: Aluminum - tin plated







### **Unit Bonding Conductor**

Wt./Pkg.

lbs.

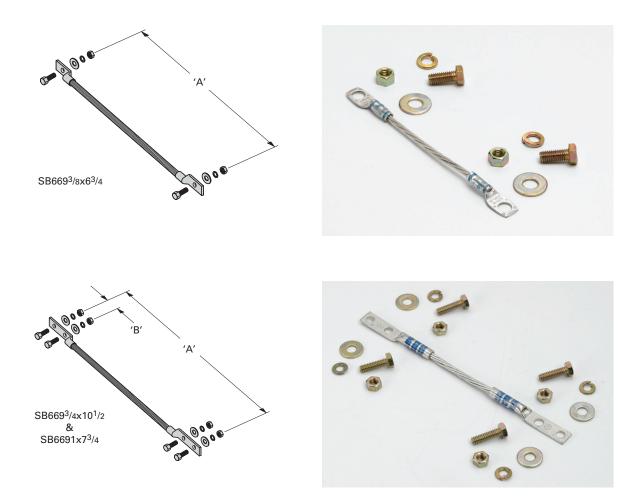
2.40

 Used to bond electronic equipment to vertical or horizontal rack mount NE busbars Sold in packages of 5 with aluminum joint compound • Material: Copper wire SBUBC614K shown Length (+(+)#6 Compression #6 MTW Copper Wire with Green Insulation and Yellow Stripe Ring Terminal -Both Ends Holes for 1/4" Both Ends

	Length		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<sup>3</sup>/<sub>4</sub>x10<sup>1</sup>/<sub>2</sub> and SB6691x7<sup>3</sup>/<sub>4</sub> includes: (1) cable with crimped lugs and <sup>1</sup>/<sub>4</sub>"-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



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

# Crimp Tool

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





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

### **Dieless Compression Tool**

• Used to attach ground lugs to electrical wire

Wt./Ea.

kg

2.27

lbs.

5.00

• Sold per piece

Part Number

SBTCO

• 24" (609mm) in length

6		
2.		
		1



### Joint Compound

- Improves electrical continuity at a grounding or bonding connection
- Sold in packages of 12
- <sup>1</sup>/<sub>2</sub> 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

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