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Busway Systems Overview

Pricing Notes

General

A. Footage Pricing

1. Sentron and XL-U base pricing is listed on a per foot charge. When calculating the footage charge, fractions are figured to the next larger number of whole feet (i.e., a linear run totaling 66'3" would be priced at 67 feet.
2. BD, XJ-L and ITD base pricing is listed on a per section charge.

B. Accessories

Some busway accessories are listed as complete device prices while others are listed under accessory charges.

1. Complete device price includes all material and accessory charges for a standard device. (Busway footage included if applicable).
2. Accessory Charge includes fabrication and any miscellaneous fittings for the standard device. (No busway footage included).

C. End Cable Tap Boxes are designed to be installed at the beginning or end of a busway run. The busway rating determines the tap box list price. Mechanical lugs are standard. For compression lugs add 30% to tap box list price.

D. Elbows whose angle is other than 90 degrees, the accessory charge is to be doubled.

E. Flange Ends (Switchboard Connections / Stubs) accessory prices are for connection to Siemens equipment. For connection to other manufacturer's equipment, multiply the flange end list price by 2.5. Standard list price includes eight inches of bus extension into equipment from mounting flange, if more than 8 inches required consult factory for pricing. Sentron Switchboards can be assembled with the Busway Flanged End pre-installed, eliminating the labour to connect the Busway to the switchboard at the job site.

F. Service Heads are specially constructed tap boxes suitable for outdoor use and are equipped to accept service cables through a removable insulated bottom plate. The busway should be priced through the end of the run.

G. Phase Transpositions can be built into a busway section to provide better voltage balance on long runs. To price, use the "Expansion Section" accessory charge for the appropriate ampere rating.

H. Hangers

Sentron and XL-U busway are UL listed for standard hanger spacing of ten feet (on center). Purchasing busway hangers for horizontal installations is optional.

Unistrut / Kindorf is commonly used by contractors as an approved alternative. Two hangers are furnished free of charge with every straight section of BD and XJ-L. For ITD refer to pricing section. Self compensating "Spring" hangers required for vertical installations are designed to be field installed by the installer and are shipped separately. These are also used as intermediate supports where floor-to-floor height is greater than 16 feet.

I. Ceiling, Floor And Wall Flanges are used when busway passes through a floor or wall and are intended to cover that portion of the opening around the outside of the busway. **They are not to be used to support the busway.**

J. Reducers price is determined by the rating of the larger busway. Fused reducers do not include fuses.

K. Special Paint — Busway Sections, Accessories And Bus Plugs Standard finish is ASA #61 light grey. For other than standard color, add 20% and consult factory for availability.

L. For Silver Finishing of Copper Bus Bars, add 10%.

M. Roof Flanges are specially constructed collars and plates built onto a section of 3R busway which passes through a flat or angled roof. Roof pitch must be given for angled roof.

N. Circuit Breaker Type Bus Plugs

for Sentron Busways are priced as "complete devices" with circuit breakers factory installed. Circuit Breaker plugs for XJ-L, BD, XL-U and XL-X busways are priced "enclosure only." When ordered with breaker, standard procedure is to individually ship both the enclosure and circuit breaker. When ordering bus plugs with breaker factory installed, add 20% to the list price of the plug and add the price of the circuit breaker, specify when ordering and allow time for assembly.

O. Fusible Type Bus Plugs do not include fuses. Adaptor kits for Class J and Class R fuses are available for field installation.

P. Cubicle list prices include labour and material for a single frame device with enclosure including line side internal bussing for connection to busway and protective device. Fuses and load side bussing are not included in the base price.

Q. Sentron Busway has been tested in accordance with UL1479 and offers a certified two hour fire rating for gypsum wall board construction, and a three hour fire rating for concrete slab or block penetrations. These ratings were achieved using standard busway installed with SpecSeal® sealant from Specified Technologies Inc. This material is available through Electrical Distribution.

R. Joint Bolt Torque Requirements

Sentron	50 Ft-lbs
XL-X	55 Ft-lbs
XL-U	35 Ft-lbs
BD	25 Ft-lbs
BD neutral	20 Ft-lbs
LO-X	30 Ft-lbs
LO-X Plug-In	30 Ft-lbs

S. Refer to the following publications for additional technical information and physical parameters.

Sentron Busway	BUSA-05500
XL-U Busway	5.3.2-1C
BD Busway	BUSA-5331E
XJ-L Busway	BUPC-XJL010502
TROLE-DUCT	5.2-1D

Busway Systems Overview

Busway Selector Chart (100-6500 Ampere)

General

I-T-E (then known as Bulldog Electric) was the first manufacturer to make a Busway System. Since its introduction in 1932, Busway Systems have improved and expanded into several designs to meet the ever

changing needs of the electrical industry. The Busway Selection Chart below will help you in selecting the proper product to fit your requirements.

Busway Selector Chart

100-6500 Ampere

600 Volts or Less

Feature		Product			
		Plug-in and Feeder Busway			
		Sentron Plug-in/Feeder	XL-U Plug-in/Feeder	XJ-L HD Plug-in	BD Plug-in
Ampere Rating	100			✓	
	150				
	200				
	225	✓	✓	✓	✓
	400	✓	✓	✓	✓
	600	✓	✓		✓
	800	✓	✓		✓
	1000	✓	✓		✓
	1200	✓	✓		✓
	1350	✓	✓		✓
	1600	✓	✓		✓
	2000	✓	✓		
	2500	✓	✓		
	3000	✓	✓		
	3200	✓			
	4000	✓	✓		
	5000	✓	✓		
6000, 6500		✓			
Conductor	Copper	✓	✓	✓	✓
	Aluminum	✓	✓		✓
Use	Indoor	✓	✓	✓	✓
	Outdoor	✓	✓		
AC Service 50-60 Hz 400Hz [ⓐ]	2W				
	1Ø3W			✓	
	3Ø3W	✓	✓	✓	✓
	3Ø4W FN	✓	✓	✓	✓
Voltage	3Ø4W 200% N	✓		✓	
	600 volts or less	✓	✓	✓	✓
Construction	Ventilated		✓		
	Non-Ventilated	✓	✓	✓	✓
Meets Electrical Standard	UL 857	✓	✓	✓	✓
	NEMA BU1	✓	✓	✓	✓
	CSA/CUL C22.2 NO 27	✓	✓	✓	✓
	ANCE NMX-J-148ANCE	✓	✓	✓	✓
	IEC	60439-1, 60439-2	ⓐ	ⓐ	ⓐ
60529		ⓐ	ⓐ	ⓐ	ⓐ

ⓐ Meets most applicable provisions of this foreign standard.

ⓐ Consult factory for information.

Sentron® Busway Systems

Catalogue Numbering System

S X 4 0 2 C 1 0

Sentron
SX = US Lengths

Configuration
3 = 3Ø, 3W
4 = 3Ø, 4W 100% Neutral
5 = 3Ø, 4W 200% Neutral

Ampere Rating
02 = 225A 32 = 3200A
04 = 400A 40 = 4000A
06 = 600A 50 = 5000A^①
08 = 800A
10 = 1000A
12 = 1200A
13 = 1350A
16 = 1600A
20 = 2000A
25 = 2500A
30 = 3000A

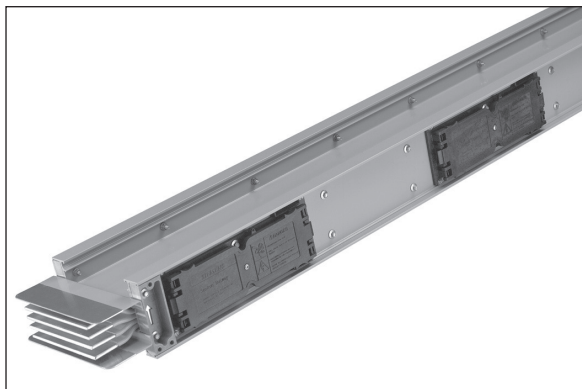
Bus Bar Material
C = Copper
M = 1000 Amps/In² Copper
A = Aluminum
L = 750 Amps/In² Aluminum

Ground
1 = Integral (Housing)
2 = Internal Bus Bar^②
3 = Isolated Ground^②

IP Rating
0 = IP40^③
4 = IP55^④
6 = IP66^{⑤⑥}
9 = NEMA 3R^{⑦⑧}

- ① Copper only
- ② Copper or aluminum ground bar
- ③ IEC Markets
- ④ NEMA Markets
- ⑤ For odd degree angle (other than 90°) specify the degree angle of the turn.
- ⑥ Indoor only (Plug-in and Feeder)
- ⑦ Outdoor use (Feeder only)
- ⑧ Elbow Stack (IP40 and IP55 only)

- Catalogue Numbers for Hangers can be found on page 13-39 - 13-41.
- Specials must be ordered by description (drawing must be included). Contact factory for pricing.



Selection

Suffix part of Catalogue Numbers

	P	L	0	6
Feeder			Length in Inches, ex.: 2'3" = 027 Feeder lengths available from 2'0" (024 Inches) up to 10'0" (120 inches)	
Plug-in	L	Length	04 = 4'0" 06 = 6'0" 08 = 8'0" 10 = 10'0"	
Riser	I	Length	04 = 4'0" 06 = 6'0" 08 = 8'0" 10 = 10'0"	
Elbows	S = Stack [®] L = 90° O = Odd degree angle [®]	Edge	Up Down	Flat Right Left
Tees	E	Edge	Up Down	Flat Right Left
Offsets	F	Edge	Up Down	Flat Right Left
Combinations	O	Edge Up Edge Down Edge Up Edge Down	Flat Left Flat Left Flat Right Flat Right	Edge Up Edge Down Edge Up Edge Down
EXpansion Fittings	P	F	T	
Center Cable Tap Boxes	T	B	Standard EXpanded	
End Cable Tap Boxes	T	Vertical Horizontal	Standard EXpanded	
End Closers	C	L	S	
FlanGe	Roof Wall	F	L	
Joint Stacks	Standard Isolation	S	T	
SerVice Heads	1 = 1-Phase 3 = 3-Phase T = Throat	Transformer	H	Utility Florida Pwr/Light Houston Pwr/Light Commonwealth ED Pacific Gas/Electric Detroit Edison Other
Reducers	Fused Non-fused	R	F	N
Flanged End	E = Int'l Standard R = U.S. Standard O = Other	N	D	D
Transposition	R	PG = Phase & Ground PO = Phase only GO = Ground only		

Sentron® Straight Section Busway

Copper (225-5000 Ampere) and Aluminum (225-4000 Ampere)

Selection

Copper (225 - 5000Ampere)

Base Catalogue Number Guide									
Ampere	3-Pole	3-Pole Internal Ground	3-Pole Isolated Ground	4- Pole	4-Pole 200% Neutral	4-Pole Internal Ground	4-Pole 200% Neutral Internal Ground	4-Pole Isolated Ground	4-Pole 200% Neutral Isolated Ground
225	SX302C1	SX302C2	SX302C3	SX402C1	SX502C1	SX402C2	SX502C2	SX402C3	SX502C3
400	SX304C1	SX304C2	SX304C3	SX404C1	SX504C1	SX404C2	SX504C2	SX404C3	SX504C3
600	SX306C1	SX306C2	SX306C3	SX406C1	SX506C1	SX406C2	SX506C2	SX406C3	SX506C3
800	SX308C1	SX308C2	SX308C3	SX408C1	SX508C1	SX408C2	SX508C2	SX408C3	SX508C3
1000	SX310C1	SX310C2	SX310C3	SX410C1	SX510C1	SX410C2	SX510C2	SX410C3	SX510C3
1200	SX312C1	SX312C2	SX312C3	SX412C1	SX512C1	SX412C2	SX512C2	SX412C3	SX512C3
1350	SX313C1	SX313C2	SX313C3	SX413C1	SX513C1	SX413C2	SX513C2	SX413C3	SX513C3
1600	SX316C1	SX316C2	SX316C3	SX416C1	SX516C1	SX416C2	SX516C2	SX416C3	SX516C3
2000	SX320C1	SX320C2	SX320C3	SX420C1	SX520C1	SX420C2	SX520C2	SX420C3	SX520C3
2500	SX325C1	SX325C2	SX325C3	SX425C1	SX525C1	SX425C2	SX525C2	SX425C3	SX525C3
3000	SX330C1	SX330C2	SX330C3	SX430C1	SX530C1	SX430C2	SX530C2	SX430C3	SX530C3
3200	SX332C1	SX332C2	SX332C3	SX432C1	SX532C1	SX432C2	SX532C2	SX432C3	SX532C3
4000	SX340C1	SX340C2	SX340C3	SX440C1	SX540C1	SX440C2	SX540C2	SX440C3	SX540C3

Aluminum (225 - 4000Ampere)

Base Catalogue Number Guide									
Ampere	3-Pole	3-Pole Internal Ground	3-Pole Isolated Ground	4- Pole	4-Pole 200% Neutral	4-Pole Internal Ground	4-Pole 200% Neutral Internal Ground	4-Pole Isolated Ground	4-Pole 200% Neutral Isolated Ground
225	SX302A1	SX302A2	SX302A3	SX402A1	SX502A1	SX402A2	SX502A2	SX402A3	SX502A3
400	SX304A1	SX304A2	SX304A3	SX404A1	SX504A1	SX404A2	SX504A2	SX404A3	SX504A3
600	SX306A1	SX306A2	SX306A3	SX406A1	SX506A1	SX406A2	SX506A2	SX406A3	SX506A3
800	SX308A1	SX308A2	SX308A3	SX408A1	SX508A1	SX408A2	SX508A2	SX408A3	SX508A3
1000	SX310A1	SX310A2	SX310A3	SX410A1	SX510A1	SX410A2	SX510A2	SX410A3	SX510A3
1200	SX312A1	SX312A2	SX312A3	SX412A1	SX512A1	SX412A2	SX512A2	SX412A3	SX512A3
1350	SX313A1	SX313A2	SX313A3	SX413A1	SX513A1	SX413A2	SX513A2	SX413A3	SX513A3
1600	SX316A1	SX316A2	SX316A3	SX416A1	SX516A1	SX416A2	SX516A2	SX416A3	SX516A3
2000	SX320A1	SX320A2	SX320A3	SX420A1	SX520A1	SX420A2	SX520A2	SX420A3	SX520A3
2500	SX325A1	SX325A2	SX325A3	SX425A1	SX525A1	SX425A2	SX525A2	SX425A3	SX525A3
3000	SX330A1	SX330A2	SX330A3	SX430A1	SX530A1	SX430A2	SX530A2	SX430A3	SX530A3
3200	SX332A1	SX332A2	SX332A3	SX432A1	SX532A1	SX432A2	SX532A2	SX432A3	SX532A3
4000	SX340A1	SX340A2	SX340A3	SX440A1	SX540A1	SX440A2	SX540A2	SX440A3	SX540A3

Suffix Numbers

Busway Type	Base Catalogue Number Suffix		
	IP40	IP55	Nema 3R
Feeder	0F	4F	9F
Plug-in	0P	4P	—
Riser	0R	4R	—

Sentron® Busway Systems

Busway Accessories

Selection

The following table identifies the feeder footage that is included in busway fittings.

Ampere Rating	Elbow Stack	Elbow	Tee	Cross	Tap Box End	Tap Box Center	Flanged End Swbd. Conn.	XFMR Throat	Expansion Section	Reducer Fusible	Reducer Unfused
225–1350 Al 225–1600 Cu	1'	2'	3'	4'	1'	4'	1'	4'	4'	4'	4'
1600–3200 Al 2000–4000 Cu	2'	3'	5'	6'	1'	4'	1'	4'	4'	4'	4'
4000 Al 5000 Cu	3'	4'	6'	8'	1'	4'	1'	4'	4'	4'	4'

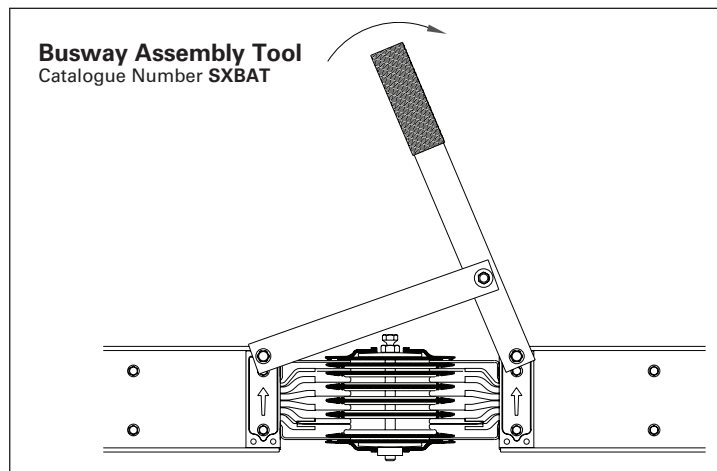
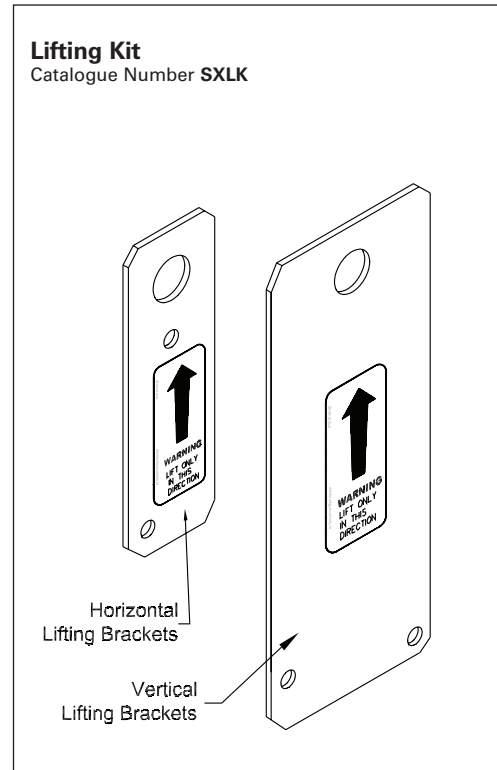
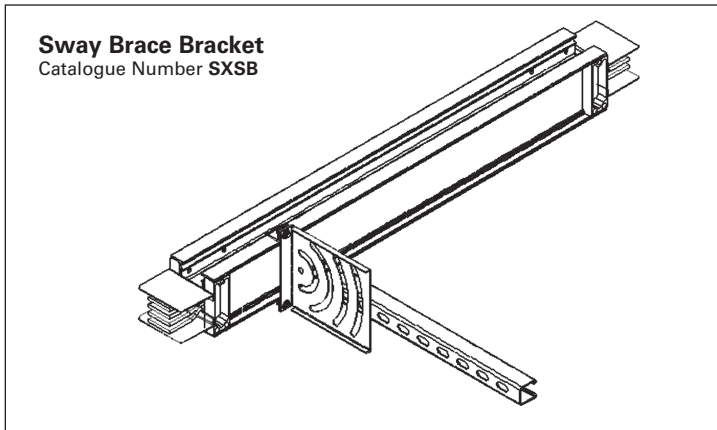
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BUSWAY
SYSTEMS

"M" Rating / Standard Rating Conversion Table

1000/A Square Inch "M" Rating	Standard 55°C Rating
	Sentron
225	600
400	800
600	1200
800	1350
1000	1600
1200	2000
1350	2000
1600	—
2000	2500
2500	4000
3000	4000
3200	4000
4000	5000

"L" Rating / Standard Rating Conversion Table

750/A Square Inch "L" Rating	Standard 55°C Rating
	Sentron
225	600
400	800
600	1000
800	1200
1000	1350
1200	1600
1350	2000
1600	2000
2000	2500
2500	3000
3000	4000
3200	4000



Sentron® Busway Systems

Fusible Cubicles, Molded Case Circuit Breaker Cubicles

Selection

Fusible Cubicles^{①③}

3-Pole, 600V/4-Pole, 480/277V

Ampere Ratings:
200
400
600
800
1200

Bolted Pressure Switches^③

3-Pole 480V, 4-Pole 480V,
3-Pole 600V or 4-Pole 600V

Ampere Ratings:
800
1200
1600
2000
2500
3000
4000

Solid State Molded Case Circuit Breaker Cubicles^③

3-Pole, 600V or 4-Pole 480/277V

Breaker Frame	Ampere Rating
SJD6 SJD6G SJD6NT SJD6NGT	200–400
SLD6 SLD6G SLD6NT SLD6NGT	300–600
SMD6A SMD6AG SMD6ANT SMD6ANGT	600–800
SND6A SND6AG SND6ANT SND6ANGT	800–1200
SPD6 SPD6G SPD6NT SPD6NGT	1400–1600

Molded Case Circuit Breaker Cubicles

3-Pole, 600V or 4-Pole 480/277V

Breaker Frame	Ampere Rating
JD6	200–400
LD6	300–600
MD6	600–800
ND6	800–1200
PD6	1400–1600
RD6	1800–2000

Current-Limiting

3-Phase, 600V AC or 120/280V AC,
277/480V AC

Breaker Type	Ampere Rating
CJD6	150–225 250–400
CLD6	450–600
CMD6	400–800 800 1000
CPD6	1200 1400 1600
CRD6	1800 2000

① Fuses not included.

② For electrically operated, specify control voltage.

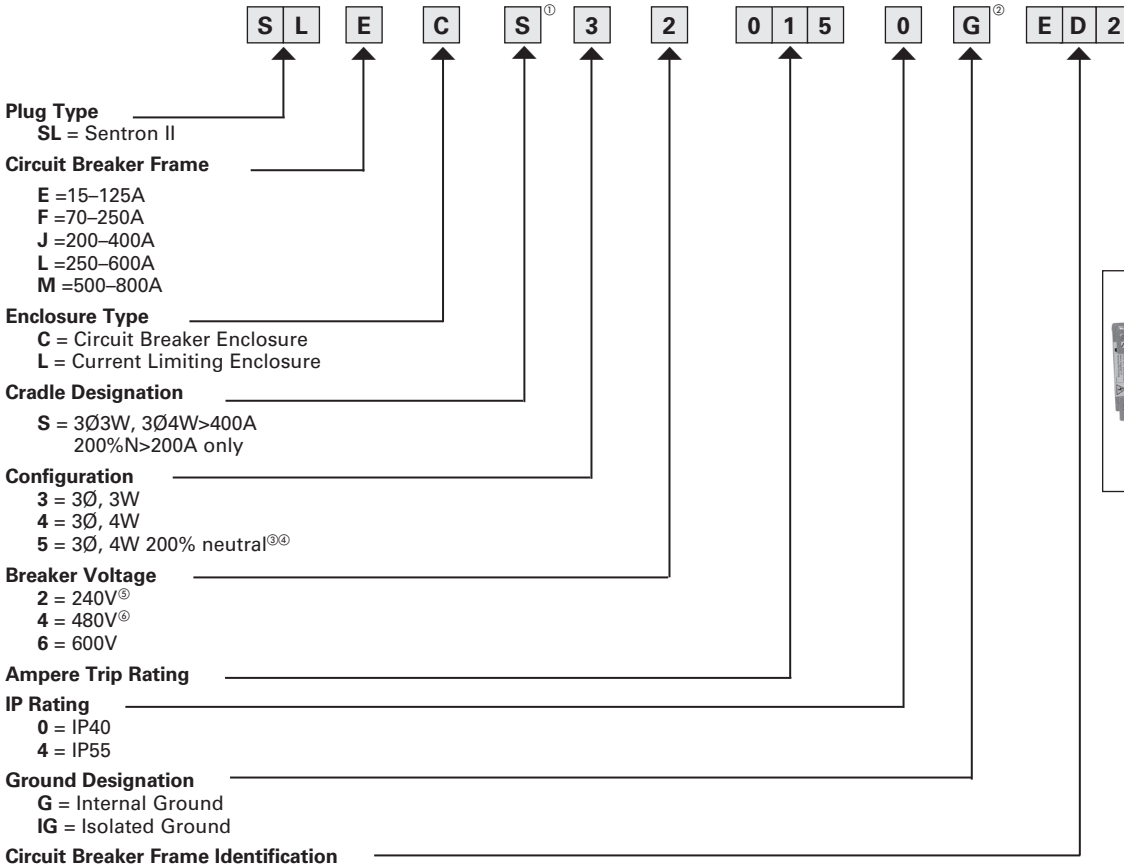
③ IP40 and IP55

Sentron® Bus Plugs

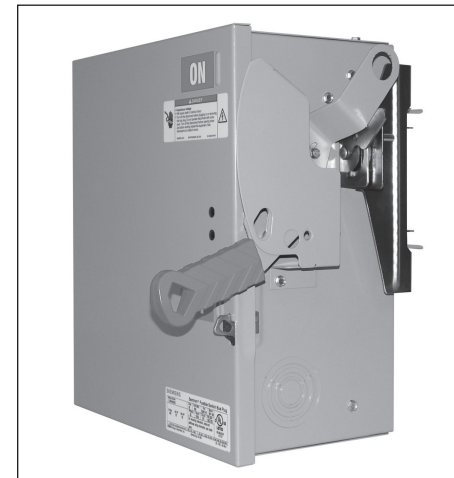
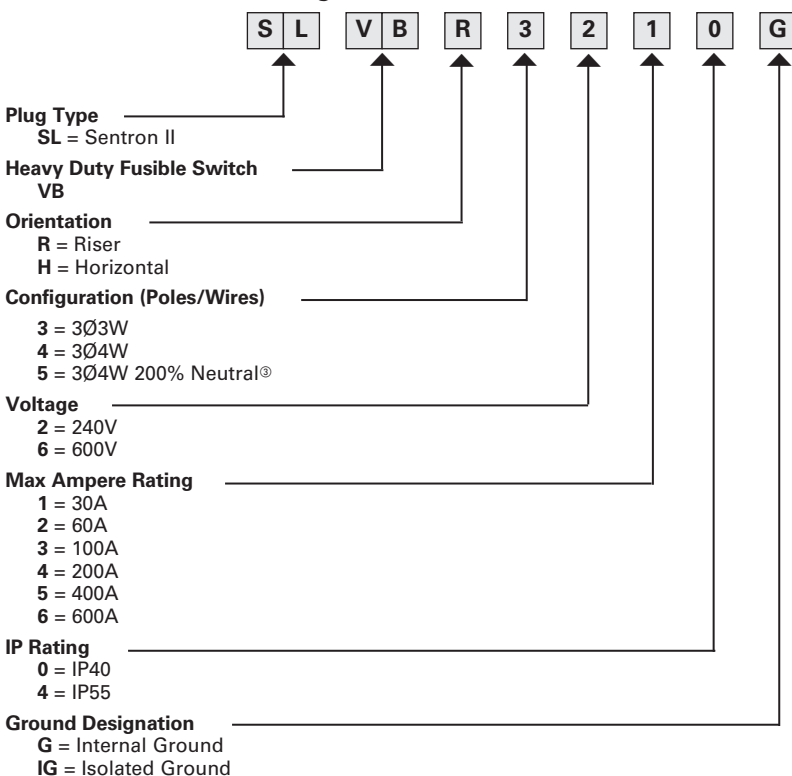
Catalogue Numbering System

Selection / Application

Sentron Bus Plugs—Circuit Breaker (Installed)



Sentron SLVB Bus Plugs—Fusible



① The S digit is only used on 3- and 4-wire (100%N) plugs that are greater than 400A and 200%N plugs greater than 200A. Lower amperage plugs do not require this digit. (Ex. SLID3610, SLECS2060ED2)

② The G and IG digits are used to specify internal and isolated ground respectively. Integral (housing) ground plugs do not require this digit. (Ex. SLID3610, SLECS360150ED6)

③ Available through 400A only.

④ Available with E, F and J Frame breakers only.

⑤ Available with ED2 breakers only.

⑥ Available with ED4 and HHED6 breakers only.

Sentron® SLVB Bus Plugs

Bus Plugs / Fusible Plugs

Selection

Ampere Rating	Catalogue Number
---------------	------------------

3-Pole, 250 Volt^①

30A	SLVB*3210 SLVB*3210G SLVB*3210IG
60A	SLVB*3220 SLVB*3220G SLVB*3220IG
100A	SLVB*3230 SLVB*3230G SLVB*3230IG
200A	SLVB*3240 SLVB*3240G SLVB*3240IG
400A ^②	SLVB*3250 SLVB*3250G SLVB*3250IG
600A ^②	SLVB*3260 SLVB*3260G SLVB*3260IG

Ampere Rating	Catalogue Number
---------------	------------------

3-Pole, 600 Volt^①

30A	SLVB*3610 SLVB*3610G SLVB*3610IG
60A	SLVB*3620 SLVB*3620G SLVB*3620IG
100A	SLVB*3630 SLVB*3630G SLVB*3630IG
200A	SLVB*3640 SLVB*3640G SLVB*3640IG
400A ^②	SLVB*3650 SLVB*3650G SLVB*3650IG
600A ^②	SLVB*3660 SLVB*3660G SLVB*3660IG

Ampere Rating	Catalogue Number	Catalogue Number
---------------	------------------	------------------

4-Pole, 250 Volt,^①

200% Neutral^①

30A	SLVB*4210 SLVB*4210G SLVB*4210IG	SLVB*5210 SLVB*5210G SLVB*5210IG
60A	SLVB*4220 SLVB*4220G SLVB*4220IG	SLVB*5220 SLVB*5220G SLVB*5220IG
100A	SLVB*4230 SLVB*4230G SLVB*4230IG	SLVB*5230 SLVB*5230G SLVB*5230IG
200A	SLVB*4240 SLVB*4240G SLVB*4240IG	SLVB*5240 SLVB*5240G SLVB*5240IG
400A ^②	SLVB*4250 SLVB*4250G SLVB*4250IG	SLVB*5250 SLVB*5250G SLVB*5250IG
600A ^②	SLVB*4260 SLVB*4260G SLVB*4260IG	

Ampere Rating	Catalogue Number	Catalogue Number
---------------	------------------	------------------

4-Pole, 600 Volt,^①

200% Neutral^①

30A	SLVB*4610 SLVB*4610G SLVB*4610IG	SLVB*5610 SLVB*5610G SLVB*5610IG
60A	SLVB*4620 SLVB*4620G SLVB*4620IG	SLVB*5620 SLVB*5620G SLVB*5620IG
100A	SLVB*4630 SLVB*4630G SLVB*4630IG	SLVB*5630 SLVB*5630G SLVB*5630IG
200A	SLVB*4640 SLVB*4640G SLVB*4640IG	SLVB*5640 SLVB*5640G SLVB*5640IG
400A ^②	SLVB*4650 SLVB*4650G SLVB*4650IG	SLVB*5650 SLVB*5650G SLVB*5650IG
600A ^②	SLVB*4660 SLVB*4660G SLVB*4660IG	

Note: Replace * in catalogue number with "H" for horizontal applications and "R" for riser applications.

Ground Detector And Potentializer Plug

Description	Catalogue Number
For 2 or 3-pole 240 and 480 volt service. (IP40 construction only)	SLPGR3140G

Note: Available in IP40 construction only.

Description	Catalogue Number
Spring Kit	SXSK

Note: Used on 400A and larger bus plugs that require auxiliary support and that are mounted on vertical/riser busway. Kit contains two springs (part number 32-9909-04). One kit required per bus plug.

Fuse Adapter Kits

Switch Rating	Std Fuse Class	Class R Catalogue Number	Class T Catalogue Number	Class J Catalogue Number
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250V

30A	H, K	SLR2030		
60A	H, K	SLR2060		
100A	H, K	SLR2100	SLT2100	
200A	H, K	SLR2200	SLT2200	
400A ^②	H, K, J	SLR2400	SLT2400	
600A ^②	H, K, J	SLR2600	SLT2600	SLJ2600

600V

30A	H, K, J	SLR6030		
60A	H, K, J	SLR6060		
100A	H, K, J	SLR6100	SLT6100	
200A	H, K, J	SLR6200	SLT6200	
400A ^②	H, K, J	SLR6400	SLT6400	
600A ^②	H, K, J	SLR6600	SLT6600	SLJ6600

① All plugs shown are rated IP40; if IP55 rating is desired, substitute a "4" for "0" in position 8.

② 400A and larger bus plugs require auxiliary support. See also SXSK Spring Kit.

Sentron® Bus Plugs

Bus Plugs with Standard Circuit Breakers ①②③④

Selection

Ampere Rating	Catalogue Number
---------------	------------------

E Frame 3-Pole, 240 Volt, ED2 Breaker

15-60A	SLEC32***0ED2 SLEC32***0GED2 SLEC32***0IGED2
70-100A	SLEC32***0ED2 SLEC32***0GED2 SLEC32***0IGED2

E Frame 3-Pole, 480 Volt, ED4 Breaker

15-60A	SLEC34***0ED4 SLEC34***0GED4 SLEC34***0IGED4
70-100A	SLEC34***0ED4 SLEC34***0GED4 SLEC34***0IGED4
110-125A	SLEC34***0ED4 SLEC34***0GED4 SLEC34***0IGED4

E Frame 3-Pole, 600 Volt, ED6 Breaker

15-60A	SLEC36***0ED6 SLEC36***0GED6 SLEC36***0IGED6
70-100A	SLEC36***0ED6 SLEC36***0GED6 SLEC36***0IGED6
110-125A	SLEC36***0ED6 SLEC36***0GED6 SLEC36***0IGED6

F Frame 3-Pole, 600 Volt, FXD6 Breaker

70-225A	SLFC36***0FXD6 SLFC36***0GFXD6 SLFC36***0IGFXD6
250A	SLFC362500FXD6 SLFC362500GFXD6 SLFC362500IGFXD6

J Frame 3-Pole, 600 Volt, JXD6 Breaker

200-400A ^④	SLJC36***0JXD6 SLJC36***0GJXD6 SLJC36***0IGJXD6
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L Frame 3-Pole, 600 Volt, LXD6 Breaker

450-600A ^④	SLLCS36***0LXD6 SLLCS36***0GLXD6 SLLCS36***0IGLXD6
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M Frame 3-Pole, 600 Volt, MXD6 Breaker

500-800A ^④	SLMCS36***0MXD6 SLMCS36***0GMXD6 SLMCS36***0IGMXD6
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Ampere Rating	Catalogue Number
---------------	------------------

E Frame 4-Pole, 240 Volt, ED2 Breaker

15-60A	SLEC42***0ED2 SLEC42***0GED2 SLEC42***0IGED2
70-100A	SLEC42***0ED2 SLEC42***0GED2 SLEC42***0IGED2

E Frame 4-Pole, 480 Volt, ED4 Breaker

15-60A	SLEC44***0ED4 SLEC44***0GED4 SLEC44***0IGED4
70-100A	SLEC44***0ED4 SLEC44***0GED4 SLEC44***0IGED4
110-125A	SLEC44***0ED4 SLEC44***0GED4 SLEC44***0IGED4

E Frame 4-Pole, 600 Volt, ED6 Breaker

15-60A	SLEC46***0ED6 SLEC46***0GED6 SLEC46***0IGED6
70-100A	SLEC46***0ED6 SLEC46***0GED6 SLEC46***0IGED6
110-125A	SLEC46***0ED6 SLEC46***0GED6 SLEC46***0IGED6

F Frame 4-Pole, 600 Volt, FXD6 Breaker

70-225A	SLFC46***0FXD6 SLFC46***0GFXD6 SLFC46***0IGFXD6
250A	SLFC462500FXD6 SLFC462500GFXD6 SLFC462500IGFXD6

J Frame 4-Pole, 600 Volt, JXD6 Breaker

200-400A ^④	SLJC46***0JXD6 SLJC46***0GJXD6 SLJC46***0IGJXD6
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L Frame 4-Pole, 600 Volt, LXD6 Breaker

450-600A ^④	SLLCS46***0LXD6 SLLCS46***0GLXD6 SLLCS46***0IGLXD6
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M Frame 4-Pole, 600 Volt, MXD6 Breaker

500-800A ^④	SLMCS46***0MXD6 SLMCS46***0GMXD6 SLMCS46***0IGMXD6
-----------------------	--

Ampere Rating	Catalogue Number
---------------	------------------

E Frame 200% Neutral

15-60A	SLEC52***0ED2 SLEC52***0GED2 SLEC52***0IGED2
70-100A	SLEC52***0ED2 SLEC52***0GED2 SLEC52***0IGED2

E Frame 200% Neutral

15-60A	SLEC54***0ED4 SLEC54***0GED4 SLEC54***0IGED4
70-100A	SLEC54***0ED4 SLEC54***0GED4 SLEC54***0IGED4
110-125A	SLEC54***0ED4 SLEC54***0GED4 SLEC54***0IGED4

E Frame 200% Neutral

15-60A	SLEC56***0ED6 SLEC56***0GED6 SLEC56***0IGED6
70-100A	SLEC56***0ED6 SLEC56***0GED6 SLEC56***0IGED6
110-125A	SLEC56***0ED6 SLEC56***0GED6 SLEC56***0IGED6

F Frame 200% Neutral

70-200A	SLFC56***0FXD6 SLFC56***0GFXD6 SLFC56***0IGFXD6
225-250A	SLFC56***0FXD6 SLFC56***0GFXD6 SLFC56***0IGFXD6

J Frame 200% Neutral

200A ^④	SLJCS562000JXD6 SLJCS562000GJXD6 SLJCS562000IGJXD6
225-400A ^④	SLJCS56***0JXD6 SLJCS56***0GJXD6 SLJCS56***0IGJXD6

Description	Catalogue Number
Spring Kit	SXSK

NOTE: Used on 400A and larger bus plugs that require auxiliary support and that are mounted on vertical/riser busway. Kit contains two springs (part number 32-9909-04). One kit required per bus plug.

① Replace "****" with breaker trip rating.

Example: SLEC36060ED6, for 60A trip.

② All plugs shown have an IP40 rating, if IP54/55 is desired substitute "4" for "0" in position 10 (or 11 for cradle plugs):

E Frame: Ex. SLEC360604ED6

F Frame: Ex. SLFC360704FXD6

J Frame: Ex. SLJC36100JXD6

L Frame: Ex. SLLCS365004LXD6

M Frame: Ex. SLMCS368004MXD6

③ For the following breaker charges, change the catalog number suffix:

15-60A: HHED6 Ex. SLEC36***0HHED6

70-100A: HHED6 Ex. SLEC36***0HHED6

110-125A: HHED6 Ex. SLEC36***0HHED6

F Frame: FD6 Ex. SLFC36***0FD6

F Frame: HFD6 Ex. SLFC36***0HFD6

J Frame: JD6 Ex. SLJC36***0JD6

J Frame: HJD6 Ex. SLJC36***0HJD6

L Frame: LD6 Ex. SLLCS36***0LD6

L Frame: HLD6 Ex. SLLCS36***0HLD6

M Frame: MD6 Ex. SLMCS36***0MD6

M Frame: HMD6 Ex. SLMCS36***0HMD6

④ 400A and larger bus plugs that require auxiliary support. See also SXSK Spring Kit.

Sentron® Bus Plugs

Bus Plugs with Current Limiting Circuit Breakers ①②

Selection

Ampere Rating	Catalogue Number
---------------	------------------

E Frame 3-Pole, 600 Volt, CED6 Breaker

15-60A	SLEL36***0CED6 SLEL36***0GCED6 SLEL36***0IGCED6
70-100A	SLEL36***0CED6 SLEL36***0GCED6 SLEL36***0IGCED6
110-125A	SLEL36***0CED6 SLEL36***0GCED6 SLEL36***0IGCED6

F Frame 3-Pole, 600 Volt, CFD6 Breaker

100-225A	SLFL36***0CFD6 SLFL36***0GCFD6 SLFL36***0IGCFD6
250A	SLFL362500CFD6 SLFL362500GCFD6 SLFL362500IGCFD6

J Frame 3-Pole, 600 Volt, CJD6 Breaker

200-400A ^③	SLJL36***0CJD6 SLJL36***0GCJD6 SLJL36***0IGJD6
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L Frame 3-Pole, 600 Volt, CLD6 Breaker

450-600A ^③	SLLS36***0CLD6 SLLS36***0GCLD6 SLLS36***0IGCLD6
-----------------------	---

Ampere Rating	Catalogue Number
---------------	------------------

E Frame 4-Pole, 600 Volt, CED6 Breaker

15-60A	SLEL46***0CED6 SLEL46***0GCED6 SLEL46***0IGCED6
70-100A	SLEL46***0CED6 SLEL46***0GCED6 SLEL46***0IGCED6
110-125A	SLEL46***0CED6 SLEL46***0GCED6 SLEL46***0IGCED6

F Frame 4-Pole, 600 Volt, CFD6 Breaker

100-225A	SLFL46***0CFD6 SLFL46***0GCFD6 SLFL46***0IGCFD6
250A	SLFL462500CFD6 SLFL462500GCFD6 SLFL462500IGCFD6

J Frame 4-Pole, 600 Volt, CJD6 Breaker

200-400A ^③	SLJL46***0CJD6 — SLJL46***0GCJD6 — SLJL46***0IGJD6 —
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L Frame 4-Pole, 600 Volt, CLD6 Breaker

450-600A ^③	SLLS46***0CLD6 SLLS46***0GCLD6 SLLS46***0IGCLD6
-----------------------	---

Ampere Rating	Catalogue Number
---------------	------------------

E Frame 200% Neutral

15-60A	SLEL56***0CED6 SLEL56***0GCED6 SLEL56***0IGCED6
70-100A	SLEL56***0CED6 SLEL56***0GCED6 SLEL56***0IGCED6
110-125A	SLEL56***0CED6 SLEL56***0GCED6 SLEL56***0IGCED6

F Frame 200% Neutral

70-200A	SLFL56***0CFD6 SLFL56***0GCFD6 SLFL56***0IGCFD6
225-250A	SLFL56***0CFD6 SLFL56***0GCFD6 SLFL56***0IGCFD6

J Frame 200% Neutral

200A ^③	SLJL562000CJD6 SLJL562000GCJD6 SLJL562000IGJD6
225-400A ^③	SLJLS56***0CJD6 SLJLS56***0GCJD6 SLJLS56***0IGJD6

① Replace "****" with breaker trip rating.
Example: SLEC36060ED6, for 60A trip.

② All plugs shown have an IP40 rating, if IP54/55 is desired, substitute "4" for "0" in position 10 (or 11 for cradle plugs):

E Frame: Ex. SLEC360604ED6
F Frame: Ex. SLFC360704FXD6
J Frame: Ex. SLJC361004JXD6
L Frame: Ex. SLLCS365004LXD6
M Frame: Ex. SLMCS368004MXD6

③ 400A and larger bus plugs that require auxiliary support. See also SXSK Spring Kit.

Sentron® Bus Plugs

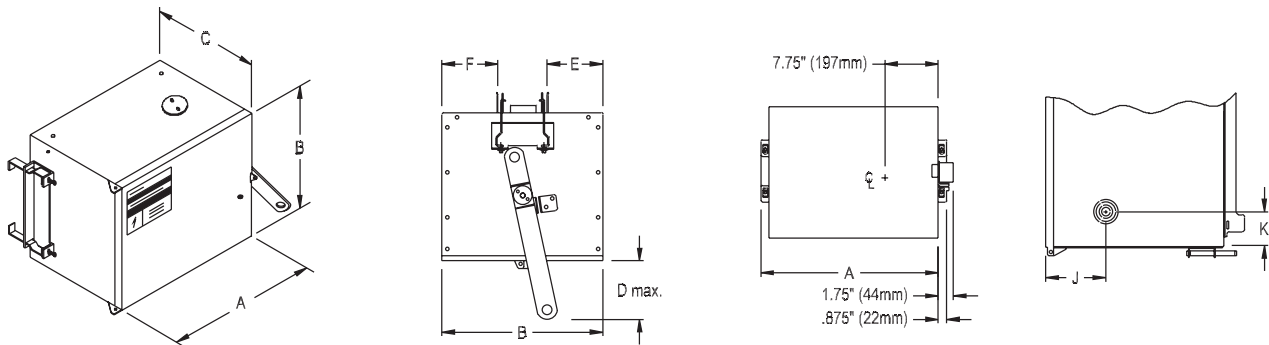
Circuit Breaker Bus Plugs Dimensions and Weights

Selection

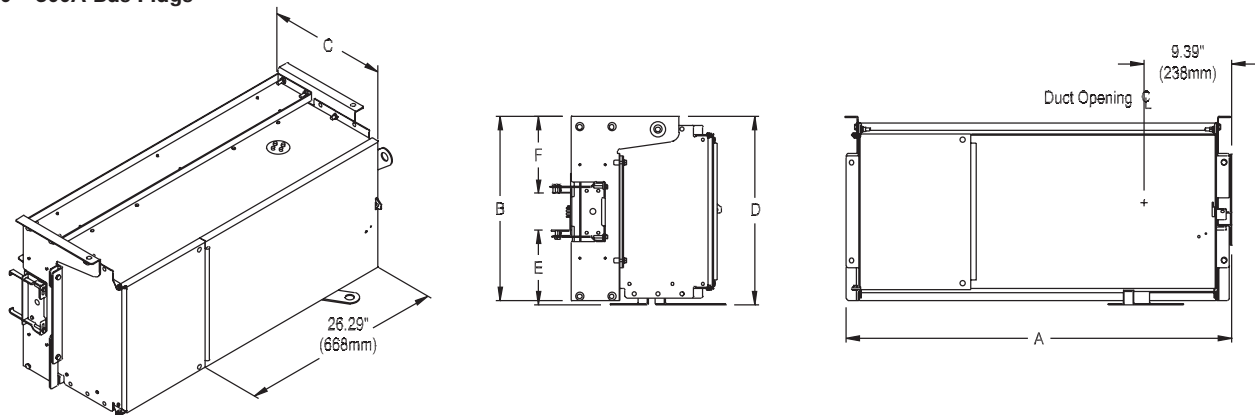
Circuit Breaker Bus Plugs, Dimensions and Weights (Enclosure only)

Ampere Rating	Dimensions Inches (mm)								Weight lbs (kg)
	"A"	"B"	"C"	"D" max.	"E"	"F"	"J"	"K"	
125	15.13 (384)	10.18 (259)	9.75 (248)	1.60 (41)	2.50 (64)	2.50 (64)	3.50 (89)	2.25 (57)	35 (15.87)
250	20.25 (514)	10.18 (259)	9.75 (248)	1.60 (41)	2.50 (64)	2.50 (64)	3.25 (83)	3.25 (83)	50 (22.68)
400	21.75 (552)	16.75 (425)	11.75 (298)	1.60 (41)	5.75 (146)	5.75 (146)	4.00 (102)	3.25 (83)	83 (37.64)
600	41.50 (1054)	19.75 (502)	15.75 (400)	2.31 (59)	7.00 (178)	7.75 (197)	—	—	130 (58.97)
800	41.50 (1054)	19.75 (502)	15.75 (400)	2.31 (59)	7.00 (178)	7.75 (197)	—	—	177 (80.29)

125 – 400A Bus Plugs



600 – 800A Bus Plugs



Circuit Breaker Bus Plugs, Load Lugs and Knockouts

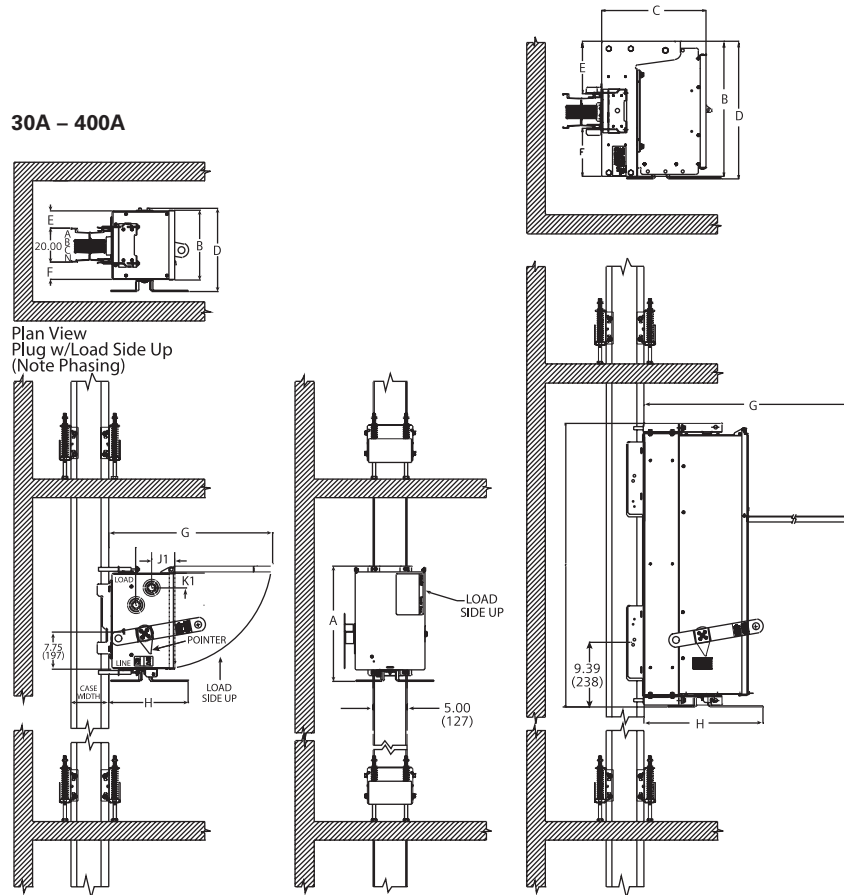
Frame Size	Ground Lug Cu/Al	Neutral Lug Cu/Al	Phase Lug Cu/Al	Knockout Sizes In. (mm)
E Frame	#14-2	#14-2	#14-1/0	7/8 (22), 1 1/8 (29), 1 3/8 (35), 1 3/4 (44), 2 (51), 2 1/2 (64)
F Frame	#14-2	#6-350 kcmil	#6-350 kcmil	2 (51), 2 1/2 (64), 3 (76), 3 5/8 (92), 4 1/8 (105)
J Frame	#14-2	(2) #4-500 kcmil	(2) 3/0-500 kcmil	7/8 (22), 1 1/8 (29), Pilot

Sentron® Bus Plugs

Wall Clearance and Circuit Breaker Bus Plug Dimensions

Selection

600A and 800A Cradle Mounted



Dim. Legend	Circuit Breaker Plugs No Cradle						Circuit Breaker Plugs w/Cradle				
	E Frame Current		F Frame [Ⓞ] Current		J Frame [Ⓞ] Current		L Frame Current		M Frame Current		
	Standard	Limiting	Standard	Limiting	Standard	Limiting	Standard	Limiting	Standard	Limiting	
A	17.00 (432)	22.00 (559)	22.00 (559)	27.00 (686)	23.50 (597)	30.50 (775)	41.50 (1054)	41.50 (1054)	41.50 (1054)	41.50 (1054)	
B	10.25 (260)	10.25 (260)	10.25 (260)	10.25 (260)	16.75 (425)	16.75 (425)	19.75 (502)	19.75 (502)	19.75 (502)	19.75 (502)	
C	9.75 (248)	9.75 (248)	9.75 (248)	9.75 (248)	11.75 (298)	11.75 (298)	15.75 (400)	15.75 (400)	15.75 (400)	15.75 (400)	
D	12.25 (311)	12.25 (311)	12.25 (311)	12.25 (311)	18.75 (476)	18.75 (476)	20.25 (514)	20.25 (514)	20.25 (514)	20.25 (514)	
E	2.50 (64)	2.50 (64)	2.50 (64)	2.50 (64)	5.75 (146)	5.75 (146)	7.75 (197) [Ⓞ]	7.75 (197)	7.75 (197)	7.75 (197)	
F	2.50 (64)	2.50 (64)	2.50 (64)	2.50 (64)	5.75 (146)	5.75 (146)	7.00 (178)	7.00 (178)	7.00 (178)	7.00 (178)	
G	24.00 (610)	29.00 (737)	29.00 (737)	29.00 (737)	32.50 (826)	39.50 (1003)	41.50 (1054)	41.50 (1054)	41.50 (1054)	41.50 (1054)	
H	11.25 (286)	11.25 (286)	11.25 (286)	11.25 (286)	13.50 (343)	13.50 (343)	18.00 (457)	18.00 (457)	18.00 (457)	18.00 (457)	
J1	3.50 (89)	3.50 (89)	3.25 (83)	3.25 (83)	4.00 (102)	4.00 (102)	—	—	—	—	
K1	2.25 (57)	2.25 (57)	3.25 (83)	3.25 (83)	3.25 (83)	3.25 (83)	—	—	—	—	

Legend:

- A = Length of enclosure including handle
- B = Height of enclosure
- C = Depth of enclosure
- D = Height of enclosure including optional handle location
- E = Extension of plug above top of busway
- F = Extension of plug below bottom of busway
- G = Cover (depth) clearance for enclosure
- H = Depth of enclosure from handle to edge of busway
- J = Knockout/ pilot hole location (horizontal)
- K = Knockout/ pilot hole location (vertical)

Ⓞ 200%N Applications

- for F-Frame Rated <200A use L-Frame Dims.
- for J-Frame Rated <400A use L-Frame Dims.
- for 400A Fusible switch use 600A Switch Dims.

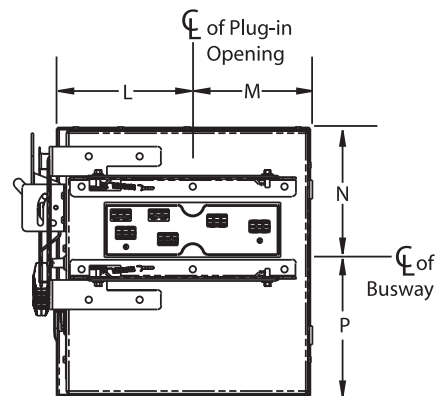
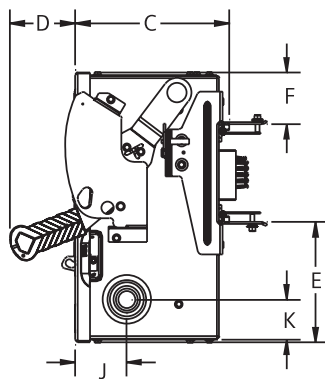
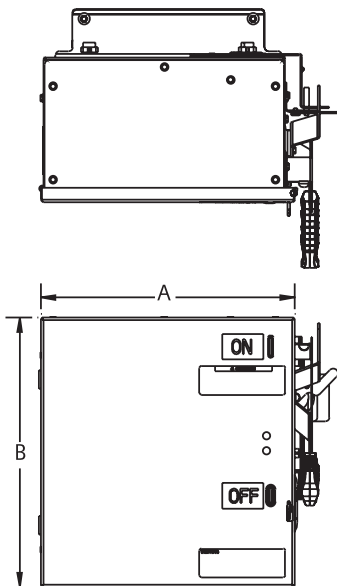
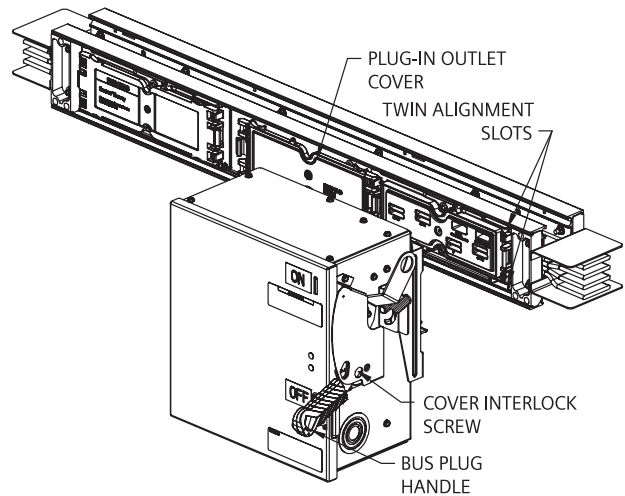
Sentron® Bus Plugs

Fusible Bus Plugs Dimensions and Weights

Selection

Horizontal Fusible Bus Plug Dimensions and Weights (Enclosure Only)

Ampere Rating	Dimensions Inches (mm)												Weight lbs (kg)
	"A"	"B"	"C"	"D max."	"E"	"F"	"J"	"K"	"L"	"M"	"N"	"P"	
30	13.13 (333)	13.86 (352)	7.96 (202)	2.60 (66)	6.18 (156)	2.66 (67)	2.65 (67)	2.06 (52)	9.81 (249)	6.22 (157)	5.30 (134)	8.63 (219)	23.5 (10.66)
60	13.13 (333)	14.86 (377)	7.96 (202)	2.60 (66)	7.18 (182)	2.66 (67)	2.65 (67)	2.06 (52)	9.81 (249)	6.22 (157)	5.30 (134)	9.63 (244)	25.5 (11.56)
100	13.13 (333)	15.86 (402)	7.96 (202)	2.60 (66)	8.18 (207)	2.66 (67)	2.65 (67)	2.06 (52)	9.81 (249)	6.22 (157)	5.30 (134)	10.53 (267)	28.0 (12.70)
200	14.88 (377)	22.86 (580)	10.58 (268)	2.60 (66)	15.88 (403)	2.66 (67)	3.40 (86)	3.06 (78)	9.81 (249)	7.95 (201)	5.30 (134)	17.62 (447)	49.0 (22.22)
400	18.63 (473)	25.36 (644)	15.67 (398)	5.50 (140)	12.67 (322)	7.67 (195)	12.15 (309)	3.06 (78)	11.80 (299)	9.43 (239)	11.90 (302)	15.15 (384)	100.0 (254)
600	18.63 (473)	25.36 (644)	15.67 (398)	5.50 (140)	12.67 (322)	7.67 (195)	12.15 (309)	3.06 (78)	11.80 (299)	9.43 (239)	11.90 (302)	15.15 (384)	100.0 (254)



Sentron® Bus Plugs

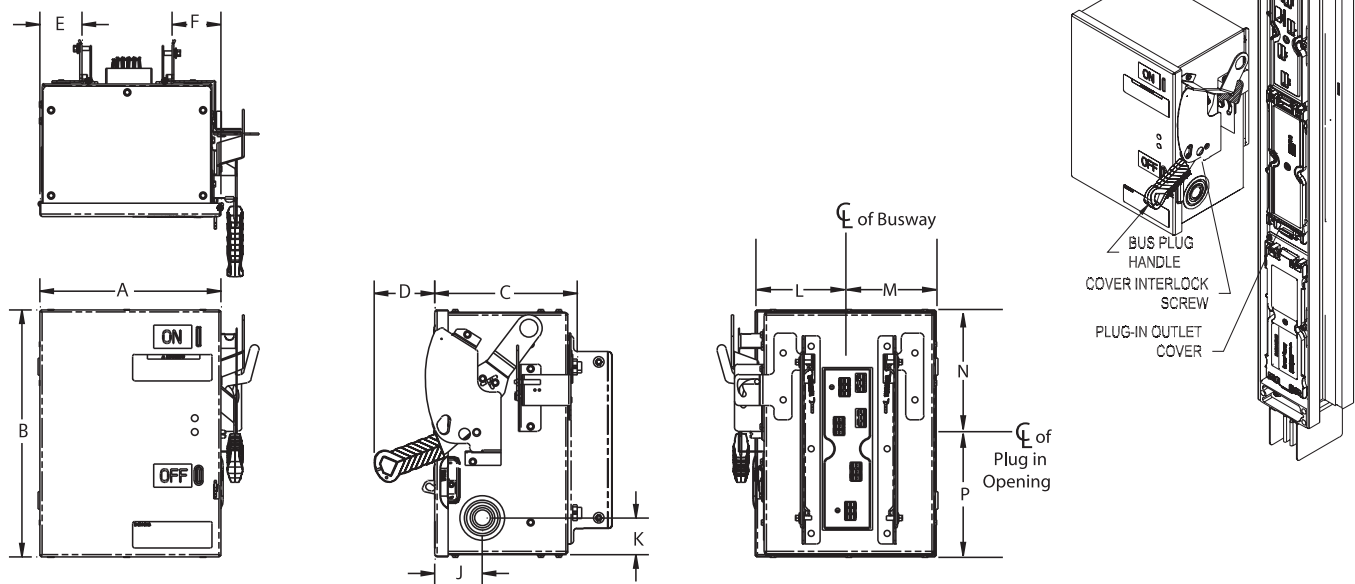
Fusible Bus Plugs Dimensions and Weights

Selection

Riser Fusible Bus Plug Dimensions and Weights (Enclosure Only)

Ampere Rating	Dimensions Inches (mm)												Weight lbs (kg)
	"A"	"B"	"C"	"D max."	"E"	"F"	"J"	"K"	"L"	"M"	"N"	"P"	
30	10.13 (257)	13.86 (352)	7.96 (202)	5.25 (133)	2.74 (69)	2.36 (59)	2.65 (67)	2.06 (52)	8.06 (204)	5.08 (129)	7.83 (198)	6.09 (154)	23.5 (10.66)
60	10.13 (257)	14.86 (377)	7.96 (202)	5.25 (133)	2.74 (69)	2.36 (59)	2.65 (67)	2.06 (52)	8.06 (204)	2.08 (52)	7.83 (198)	7.09 (180)	25.5 (11.56)
100	11.13 (282)	15.86 (402)	7.96 (202)	5.25 (133)	7.74 (196)	3.36 (85)	2.65 (67)	2.06 (52)	8.06 (204)	6.08 (154)	7.83 (198)	8.09 (205)	28.0 (12.70)
200	14.88 (377)	22.86 (580)	10.58 (268)	5.90 (149)	5.11 (129)	4.74 (120)	3.40 (86)	3.06 (78)	10.42 (264)	7.35 (186)	9.08 (230)	13.84 (351)	49.0 (22.22)
400	18.63 (473)	25.36 (644)	15.67 (398)	5.50 (140)	6.60 (167)	7.10 (180)	12.15 (309)	3.06 (78)	11.97 (304)	9.25 (234)	13.56 (344)	13.49 (342)	100.0 (2540)
600	18.63 (473)	25.36 (644)	15.67 (398)	5.50 (140)	6.60 (167)	7.10 (180)	12.15 (309)	3.06 (78)	11.97 (304)	9.25 (234)	13.56 (344)	13.49 (342)	100.0 (2540)

13
BUSWAY
SYSTEMS



Fusible Switch Plug, Load Lugs, and Knockouts

Ampere Rating	Ground Lug Cu/Al	Neutral Lug Cu/Al	Phase Lug Cu/Al	Knockout Sizes Inches (mm)
30	#14-1/0	#14-2	#14-2	7/8 (22, 1 1/8 (29), 1 3/8 (35), 1 3/4 (44), 2 (51), 2 1/2 (64)
60	#14-1/0	#14-1/0	#14-2	7/8 (22, 1 1/8 (29), 1 3/8 (35), 1 3/4 (44), 2 (51), 2 1/2 (64)
100	#14-1/0	#14-1/0	#14-1/0	7/8 (22, 1 1/8 (29), 1 3/8 (35), 1 3/4 (44), 2 (51), 2 1/2 (64)
200	#14-1/0	#6-300MCM	#6-300MCM	1 3/8 (35), 1 3/4 (44), 2 (51), 2 1/2 (64), 3 (76)
400	#6-350MCM	(2) 1/0-250MCM or (1) 1/0-750MCM	(2) 1/0-250MCM or (1) 1/0-750MCM	7/8 (22), 1 1/8 (29)
600	#6-350MCM	(4) 1/0-250MCM or (2) 1/0-750MCM	(4) 1/0-250MCM or (2) 1/0-750MCM	7/8 (22), 1 1/8 (29)

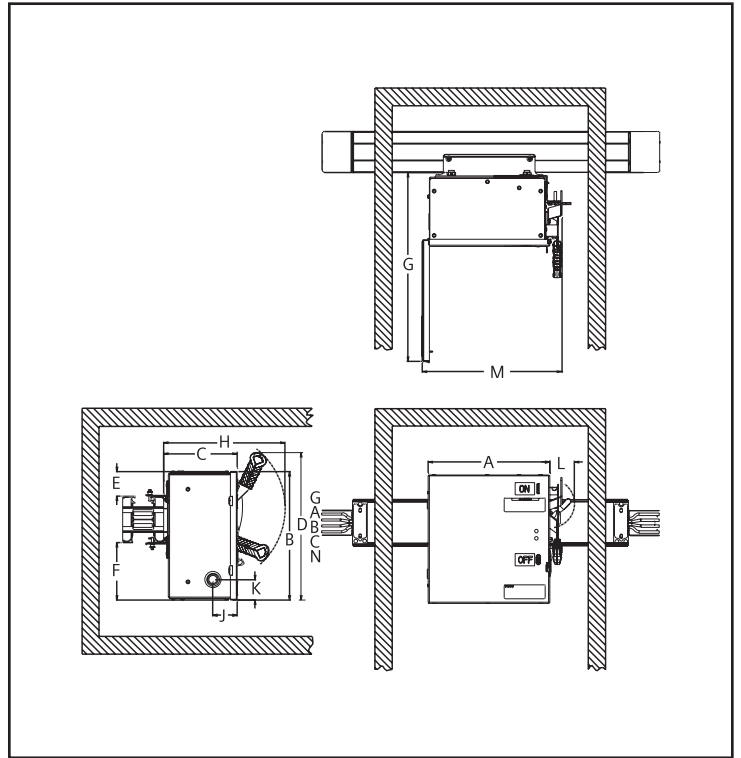
Sentron® Bus Plugs

Wall Clearance and Fusible Bus Plug Dimensions

Dimensions

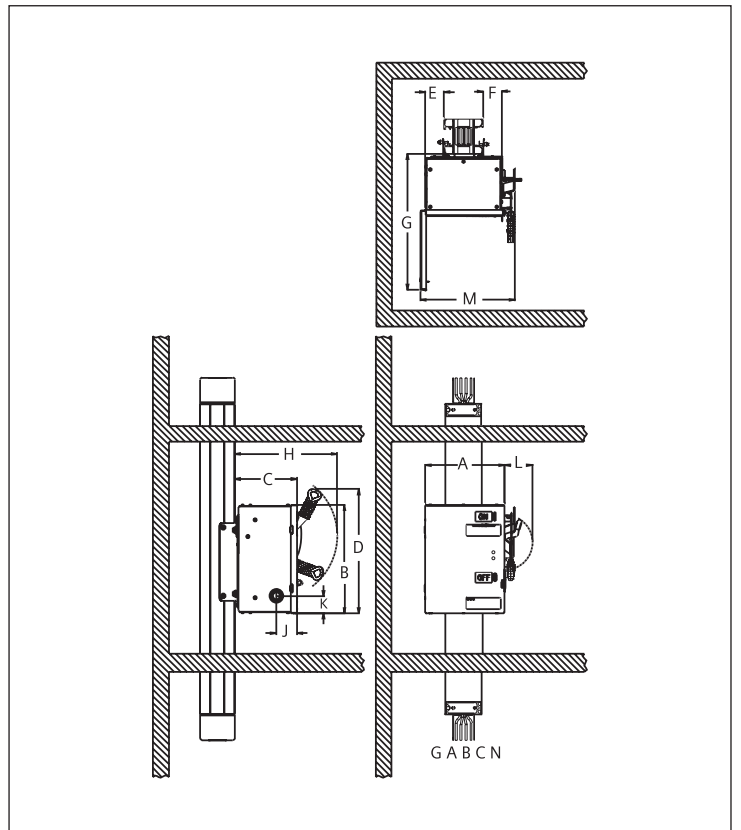
Wall Clearance and Bus Plug Dimensions Horizontal (Inches/mm)

Dim.	No Cradle					
	30	60	100	200	400	600
A	13.13 (333)	13.13 (333)	13.13 (333)	14.88 (377)	18.63 (473)	18.63 (473)
B	13.86 (352)	14.86 (377)	15.86 (402)	22.86 (580)	27.00 (686)	27.00 (686)
C	7.96 (202)	7.96 (202)	7.96 (202)	10.58 (268)	15.67 (398)	15.67 (398)
D	15.89 (403)	16.68 (423)	17.68 (449)	24.66 (626)	20.00 (508)	20.00 (508)
E	6.19 (157)	7.19 (182)	8.19 (208)	15.19 (385)	12.67 (322)	12.67 (322)
F	2.67 (67)	2.67 (67)	2.67 (67)	2.67 (67)	7.67 (195)	7.67 (195)
G	20.39 (517)	20.39 (517)	20.39 (517)	24.76 (628)	33.75 (857)	33.75 (857)
H	13.09 (332)	13.09 (332)	13.09 (332)	16.55 (420)	21.17 (538)	21.17 (538)
J	2.65 (67)	2.65 (67)	2.65 (67)	3.40 (86)	12.15 (309)	12.15 (309)
K	2.06 (52)	2.06 (52)	2.06 (52)	3.06 (78)	3.06 (78)	3.06 (78)
L	2.65 (67)	2.65 (67)	2.65 (67)	2.65 (67)	2.65 (67)	2.65 (67)
M	15.07 (382)	15.07 (382)	15.07 (382)	16.82 (427)	21.00 (533)	21.00 (533)



Wall Clearance and Bus Plug Dimensions Riser (Inches/mm)

Dim.	No Cradle					
	30	60	100	200	400	600
A	10.13 (257)	10.13 (257)	11.13 (282)	14.68 (372)	18.63 (473)	18.63 (473)
B	13.86 (352)	14.86 (377)	15.86 (402)	22.86 (580)	27.00 (686)	27.00 (686)
C	7.96 (202)	7.96 (202)	7.96 (202)	10.58 (268)	15.67 (398)	15.67 (398)
D	15.89 (403)	16.68 (423)	17.68 (449)	24.66 (626)	20.00 (508)	20.00 (508)
E	2.74 (69)	2.74 (69)	7.74 (196)	5.11 (129)	6.60 (167)	6.60 (167)
F	2.36 (59)	2.36 (59)	3.36 (85)	4.74 (120)	7.10 (180)	7.10 (180)
G	17.39 (441)	17.39 (441)	18.39 (467)	24.76 (628)	33.75 (857)	33.75 (857)
H	13.09 (332)	13.09 (332)	13.09 (332)	16.55 (420)	21.17 (538)	21.17 (538)
J	2.65 (67)	2.65 (67)	2.65 (67)	3.40 (86)	12.15 (309)	12.15 (309)
K	2.06 (52)	2.06 (52)	2.06 (52)	3.06 (78)	3.06 (78)	3.06 (78)
L	3.55 (90)	3.55 (90)	3.55 (90)	3.55 (90)	2.65 (67)	2.65 (67)
M	12.07 (306)	12.07 (306)	13.07 (331)	16.82 (427)	21.00 (533)	21.00 (533)



Sentron® Busway Systems

Fusible Cubicles, Molded Case Circuit Breaker Cubicles

Selection

Fusible Cubicles^{①②}

Ampere Rating	3-Pole, 600V	4-Pole, 480/277V
	IP40	IP40
200 400 600 800 1200	Consult Sales	Consult Sales

Molded Case Circuit Breaker Cubicles^②

Breaker Frame	Ampere Rating	3-Pole, 600V	4-Pole, 480/277V
		IP40	IP40
JD6 LD6 MD6 ND6 PD6 RD6	200-400 300-600 600-800 800-1200 1400-1600 1800-2000	Consult Sales	Consult Sales

Bolted Pressure Switches

Ampere Rating	480 Volt		600 Volt	
	3-Pole	4-Pole	3-Pole	4-Pole
800 1200 1600 2000 2500 3000 4000	Consult Sales	Consult Sales	Consult Sales	Consult Sales

Molded Case Digital Circuit Breaker Cubicles^②

Breaker Frame	Ampere Rating	3-Pole, 600V	4-Pole, 480/277V
		IP40	IP40
SJD6 SJD6G SJD6NT SJD6NGT	200-400	Consult Sales	Consult Sales
SLD6 SLD6G SLD6NT SLD6NGT	300-600	Consult Sales	Consult Sales
SMD6A SMD6AG SMD6ANT SMD6ANGT	600-800	Consult Sales	Consult Sales
SND6A SND6AG SND6ANT SND6ANGT	800-1200	Consult Sales	Consult Sales
SPD6 SPD6G SPD6NT SPD6NGT	1400-1600	Consult Sales	Consult Sales

①Fuses not included.

②For IP55 rating add 12% to list price.

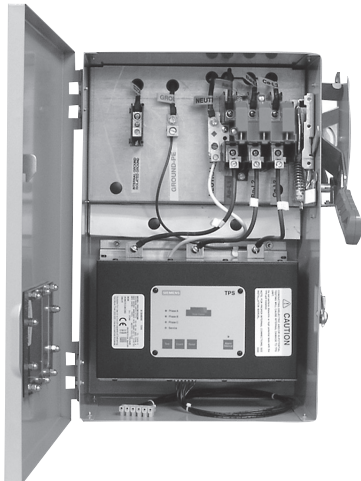
③For electrically operated. Specify control voltage.

The Siemens advantage...

Siemens history of innovation and safety continues with our line of UL 1449 3rd Edition SPD's. The TPS Series utilizes thermally protected MOV's specifically designed for safe operation in high fault current or sustained overvoltage conditions that can cause other SPD's to fail in an unsafe manner and damage other equipment in the distribution system. Every MOV, including N-G, is monitored. Indicator lights for each phase provide indication of loss of protection and phase loss protection. The direct bus, integral design reduces circuit impedance resulting in the lowest possible let-through voltages providing maximum protection to facility equipment and systems.

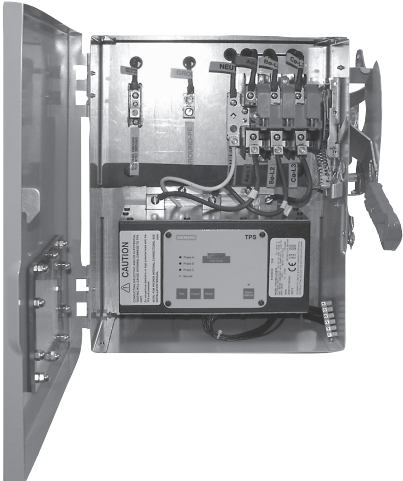
All TPS Series SPD's:

- UL 1449 3rd Edition Listed, CUL, CE Mark
- Designed, tested, manufactured to ANSI/IEEE C62.42.1 – 2002, C62.41.2 – 2002, C62.45 – 2002
- Provide indication of loss of protection on each phase and phase loss
- Include all UL-required over current protection and safety coordination inside
- Prevent internally generated surges from propagating throughout a facility and externally generated surges from reaching sensitive loads



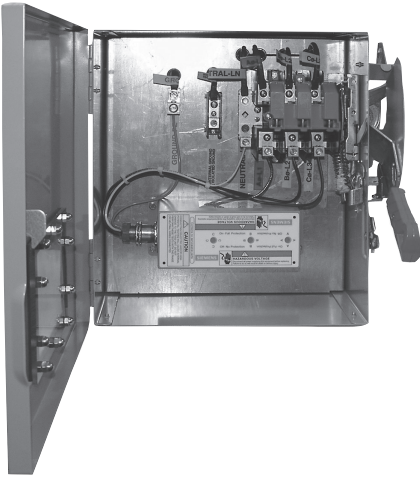
High Exposure Applications - TPS6

- 400kA – 500kA per phase
- 200kA SCCR
- 20kA nominal discharge current
- Indicator lights, audible alarm and dry contacts standard
- Individually fused, thermally protected MOV's
- EMI/RFI filtering
- Surge counter optional



Medium Exposure Applications - TPS1

- 100kA – 300kA per phase
- 200kA SCCR
- 20kA nominal discharge current
- Indicator lights, audible alarm and dry contacts standard
- Individually fused, thermally protected MOV's
- EMI/RFI filtering
- Surge counter optional



Low Exposure Applications - TPS9

- 100kA per phase
- 200kA SCCR
- 20kA nominal discharge current
- Indicator lights standard
- Individually fused, thermally protected MOV's
- Dry contacts and audible alarm optional

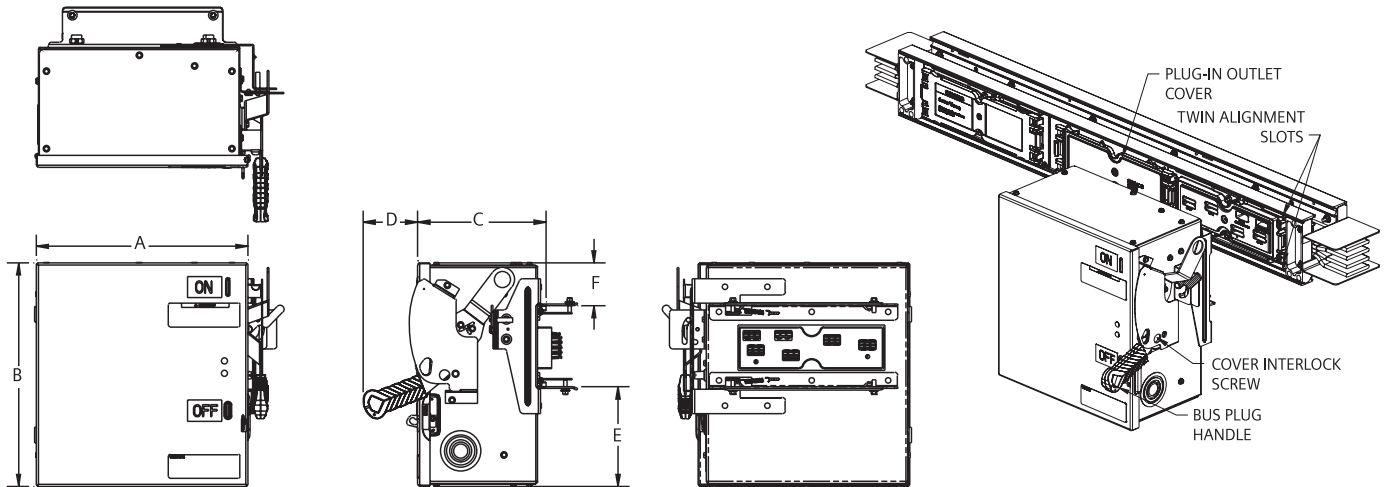
Sentron® Bus Plugs

Sentron SPD Bus Plugs

Technical

Horizontal SPD bus plugs dimensions and weights

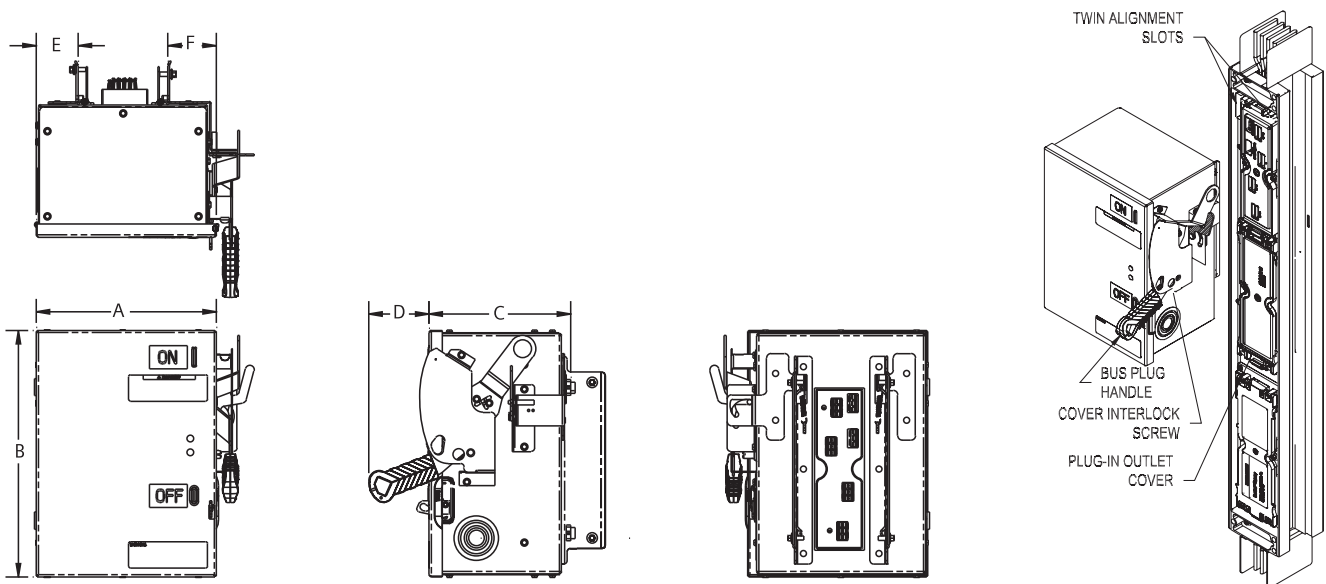
Plug type	Dimensions inches (mm)						Weight lbs. (kgs)
	"A"	"B"	"C"	"D" max.	"E"	"F"	
TPS 9	13.25 (336)	13.86 (352)	7.96 (202)	2.60 (66)	6.18 (156)	2.66 (67)	30 (13.63)
TPS 1	13.25 (336)	15.86 (402)	7.96 (202)	2.60 (66)	8.18 (207)	2.66 (67)	35 (15.90)
TPS 6	13.25 (336)	19.86 (504)	7.96 (202)	2.60 (66)	12.18 (372)	2.66 (67)	38 (17.27)



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Riser SPD bus plugs dimensions and weights

Plug type	Dimensions inches (mm)						Weight lbs. (kgs)
	"A"	"B"	"C"	"D" max.	"E"	"F"	
TPS 9	10.25 (260)	13.86 (352)	7.96 (202)	5.25 (133)	2.74 (69)	2.36 (59)	25 (11.36)
TPS 1	11.25 (286)	19.36 (492)	7.96 (202)	5.25 (133)	7.74 (196)	3.36 (85)	35 (15.90)
TPS 6	15.00 (381)	22.86 (580)	10.58 (268)	5.25 (133)	5.11 (129)	4.74 (120)	45 (20.45)



Sentron® Bus Plugs

Sentron SPD Bus Plugs

Catalogue Number Logic

Numbering System

STP H 4 4 G E 06 24

Plug Type

STP = Sentron SPD VBII

Orientation

H = Horizontal
R = Riser

Configuration (Poles/Wires)

3 = 3Ø 3W
4 = 3Ø 4W

IP Rating

4 = IP55

Ground Designation

G = Internal Ground (Isolated ground available as custom)

Voltage Code

A = 120/240V 1Ø 3W
B = 240/120V 3Ø 4W
D = 240V 3Ø 3W
E = 480Y/277V 3Ø 4W
F = 480V 3Ø 3W
G = 600V 3Ø 3W^①
L = 600Y/347V 3Ø 4W

TPS Model Number

01 = TPS 1^②
1L = TPS1L (10 Mode) ^{②③}
06 = TPS 6^②
6L = TPS6L (10 Mode) ^{②③}
09 = TPS 9^②

Surge Current (kA)

10 = 100kA per Phase	TPS1, TPS9
15 = 150kA per Phase	TPS1L
20 = 200kA per Phase	TPS1
25 = 250KA per Phase	TPS1
30 = 300kA per Phase	TPS1, TPS1L
40 = 400kA per Phase	TPS6
45 = 450kA per Phase	TPS6L
50 = 500kA per Phase	TPS6

Options

TPS1 and TPS6:
R = Remote Monitor
X = Surge Counter
TPS 9:
D = Dry Contact & Audible Alarm

Notes:

- ① Available in 100kA & 150kA for TPS1 and 100kA, 150kA, 200kA & 250kA for TPS6.
- ② The 10 mode devices provide additional circuit protection for Line to Neutral and Neutral to Ground. The 10 modes of protection are:
L1-G, L2-G, L3-G, L1-L2, L2-L3, L1-L3, L1-N, L2-N, L3-N, N-G.
- ③ Standard features: indicator lights.
- ④ Standard features: indicator lights, dry contacts, audible alarm with silence switch, test button.

Sentron® Busway Systems

Meter Centres

Selection

Molded Case Circuit Breaker Cubicles
with Meter Tap Stack Provisions

Aluminum Busway	L Frame Breaker	N Frame Breaker
600A - 1200A	Consult Sales	Consult Sales
1350A - 1600A		
2000A - 3000A		
Copper Busway	L Frame Breaker	N Frame Breaker
800A - 1600A	Consult Sales	Consult Sales
2000A		
2500A - 4000A		
5000A		

Meter Center Tap Stacks—IP40

Amps	3-Pole	3-Pole Internal Ground	3-Pole Isolated Ground	4-Pole	4-Pole Internal Ground	4-Pole Isolated Ground
100	Consult Sales					
200						
400						
600						
800						
1000						
1200						

Note: Prices do not include meter centers.

Sentron® Busway Systems – Reference Information

Sentron Busway Overview

Overview

Sentron Busway for Global Power Distribution Applications

Building on a solid foundation of advanced products for the construction industry, the Siemens Sentron name is recognized worldwide as synonymous with quality and consistent performance. Sentron Busway delivers impressive features and benefits that make it ideal for many types of industrial and construction implementations.

Engineered to ensure the safe and efficient distribution of power in industrial, commercial and institutional environments world-wide, Sentron ampacities range from 225A to 5000A UL and IEC. Thanks to an innovative design, you benefit from labour-saving installation and a flexible, compact bus system that is an ideal fit for most applications. In fact, Sentron Busway is one of the industry's least labour-intensive systems.

Sentron Busway installs with minimal hardware and often costs less than cable and conduit installations. The lightweight aluminum housing acts as an integral ground, joint stacks connect with splice plates featuring a single-bolt design, and bus plugs and cable tap boxes offer the industry's largest wire bending space. An optional 200% neutral within the bus bar housing accommodates harmonics common in today's power systems.

Sentron Busway conductors are insulated with a state-of-the-art epoxy insulation system, which is applied using an electrostatic spray process for optimal insulation integrity.

Exemplifying the spirit of continuing innovation, Sentron Busway is now available with economical and convenient elbow stacks for changing left, right, up or down directions at 90 degrees.

And, of course, Sentron Busway is certified to design standards worldwide, including UL, NEMA, IEC, CSA, VDE and BS.

Siemens Busway Business uses industry leading technology in all its manufacturing processes. From bus bar fabrication to Electrostatic Spray Epoxy insulation, all the processes used in the manufacturing of Siemens Sentron Busway are electronically controlled to provide for consistent, high quality results, making Sentron Busway products best in its class.

Housing

Sentron Busway incorporates an all aluminum housing. This lightweight totally enclosed, non-ventilated housing resists rust and other elements, distributes heat away from the conductors, and provides an excellent ground path. The totally enclosed design also eliminates the need for derating of the system regardless of installation orientation. The housing is covered with an electrostatically applied light grey ANSI 61 polyester urethane powder paint that is scratch resistant and has a 1,000-hour salt spray resistance rating.

Conductors

Sentron Busway conductors have a compact construction and can be configured as 3-phase 3-wire, 3-phase 4-wire or 3-phase 4-wire with 200% neutral. The conductors may be ordered in copper (98% conductivity), 1000A/in² M-Rated Copper, Aluminum (58% conductivity) and 750A/in² L-Rated Aluminum. The optional 200% neutral helps to handle harmonic conditions that may exist. This system is especially useful with discharge lighting (fluorescent) and computer installations. This will help to minimize overheating and prolong the life cycle of your power distribution equipment.

Ground

Sentron Busway offers ground options to meet your specifications: standard integral aluminum housing ground and optional internal grounding bars. An optional isolated ground is also available which is especially useful in applications where a clean ground is needed.

Plating

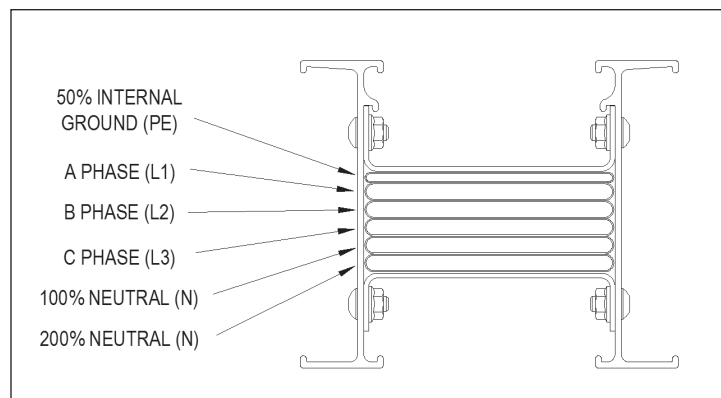
All bus bars are electroplated with tin. This unique tin plating provides excellent conductivity and resists outside elements from attaching to the bars. Optional silver plating is also available.

Insulation

Sentron Busway is insulated with an Epoxy Powder Coating system designed by Siemens Engineers, Epoxy System Engineers and Epoxy Powder Specialists, specifically for Siemens Busway products.

The Siemens exclusive Electrostatic Spray insulation process produces uniform application of Epoxy powder over the entire conductor bar. This is further enhanced by the inline filter process and magnetic separator that helps to eliminate contaminants common to fluidized bed systems. The electrostatic application also provides a better coating consistency than that of the older fluidized bed process. The combination of electrostatic spray and lower oven temperatures produces a consistent coverage with fewer impurities and pinholes in the insulation. The lower oven temperatures reduce the risk of bar annealing, which affects the overall quality of the system.

Sentron Busway insulation is Class B, 130°C Rated. Every bus bar and completed assembly is dielectric tested to ensure the insulation is free of defects.



Sentron® Busway Systems – Reference Information

Sentron Busway Overview

Overview

Joint Stack

Each Sentron Busway piece is shipped with a joint stack and joint covers installed at one end of the busway and a shipping end protector at the other end. The joint stacks feature a single bolt design and a special, torque indicating, double headed break-off bolt. This eliminates the need for torque wrenches and assures proper torque at installation of 50 ft.-lbs.(68 N-m).

When the proper torque value is achieved, the top bolt head will shear off. Each joint stack allows for +/- .625 inches (15.8mm) adjustability at each joint. Over adjustment is prevented by the joint covers, which will only allow a .625 inch (15.8mm) adjustment when the knockouts on the joint cover are removed.

It is possible to remove any joint connection assembly to allow electrical isolation or removal of a busway length without disturbing adjacent busway lengths. Isolation joint stacks are available and used to electrically isolate a busway section(s) within a busway run. For easy visual identification, isolation joint stack assemblies are painted white.

Plug-in Opening

Sentron Busway offers plug-in style busway which feature plug-in openings rated for finger safety to IP2X in accordance with IEC 529 and BS EN 60439-1, -2 and BS EN 60529.

Each plug-in opening has a reversible hinged dead front designed to protect the contact surfaces from dirt, dust or moisture. Gasketing is used where applications require a splash proof (IP55) rating.

IP Ratings

Sentron Busway is available in a variety of IP ratings. Use the chart below to determine the IP rating that best fits your application needs.

Testing

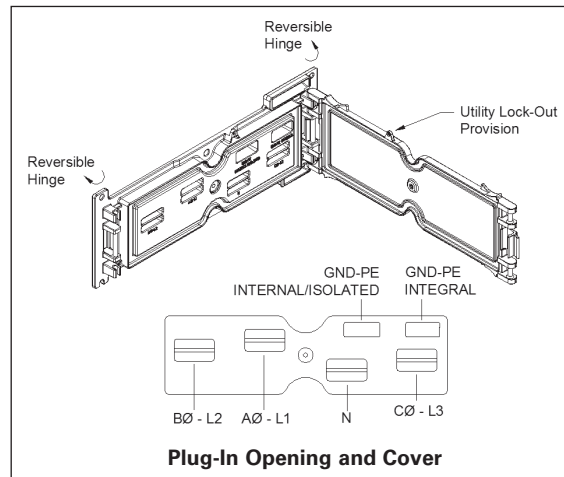
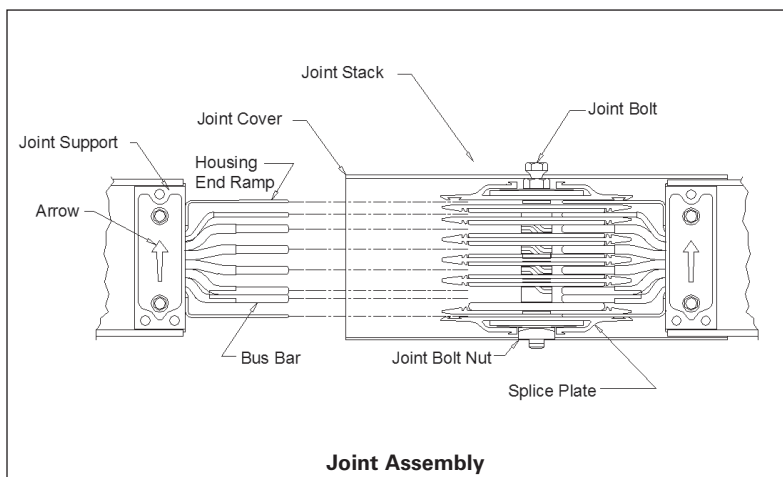
Each piece of Sentron Busway is factory tested before shipping. Tests performed include dielectric tests, which are used to insure integrity of insulation. In addition, Sentron Busway is tested in accordance with both UL and IEC standards. All Sentron Busway is manufactured and inspected in an ISO 9001:2000 registered facility.

Standards

All Sentron Busway products meet the following standards:

- UL 857
- NEMA BU1
- CSA C22.2
- IEC 439-1(1993), IEC 439-2 (1993), IEC 529 (1989)
- BS EN 60529
- BS EN 60439-1, 60439-2
- UL 1479
- DIN 4102 Parts 9&12
- BS 6387 Parts 11.1 and 11.2

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Levels of Protection Description

Code	Description	Sentron Busway		
		Feeder	Plug-In	Sentron Bus Plugs
IP 2X	Plug-In outlet protects against access to live parts by .472 in. (12 mm) test probe, even with cover opened. Finger Safe	•	•	•
IP 40	Enclosure protects against entry of .039 in. (1.0 mm) test probe. Indoor (Typical UL Designation)	•	•	•
IP 55	Enclosure protects against entry of dust and water jets. Splash Proof	•	•	•
IP 66	Enclosure is dust tight and protects against powerful water jets. Outdoor (International Only)	•		
NEMA 3R	Enclosure protects against rain, sleet and damage from ice formation. Outdoor - NAFTA	•		

Sentron® Busway Systems – Reference Information

Sentron Bus Plug Overview

Overview

SENTRON Bus Plugs are engineered with the installer and end user in mind. The installer will benefit from the numerous features, such as factory installed circuit breakers, compact footprint, generous wirebend space, and dual interlocks. The end user will appreciate the visible position indicator, as well as the spring loaded pad lockable latch which prevents access to unauthorized personnel.

SENTRON Bus Plugs are designed with an interlock device to prevent the door from being opened when the disconnect is on. This also prevents the disconnect from being turned on while the door is open. The interlock ensures that the protective device is "OFF" prior to installation or removal of the bus plug. Once the bus plug is properly installed, a spring - loaded, padlock latch provides additional security by preventing unauthorized access to the unit.

Alignment and interlock stabs are features of the Sentron Bus Plugs engineered to prevent improper

installation of the unit. Guide stabs prevent installing the bus plug 180 degrees out of rotation. In addition, the stabs provide vertical support for vertical applications. The bus plug ground stabs are designed to ensure positive contact with both the integral and optional internal busway grounds before the bus plug fingers contact the phase and neutral bars. Sentron Bus Plugs also feature bolt-on mounting to the busway housing for secure attachment.

Sentron Bus Plugs can be configured for horizontal or vertical applications. The following Bus Plugs can be mounted (side by side) five (5) per busway side channel (Total 10 per 10' Section).

- 30-600 SLVBH Fusible (Horizontal)[Ⓞ]
- 30-200 SLVBR Fusible (Riser)[Ⓞ]
- 30-400 Circuit Breaker[Ⓞ]

Sentron SLVB Fusible Bus Plugs feature a direct drive mechanism. The operating handle mounts directly to the switch mechanism for fewer moving parts.

Enclosure Ratings:

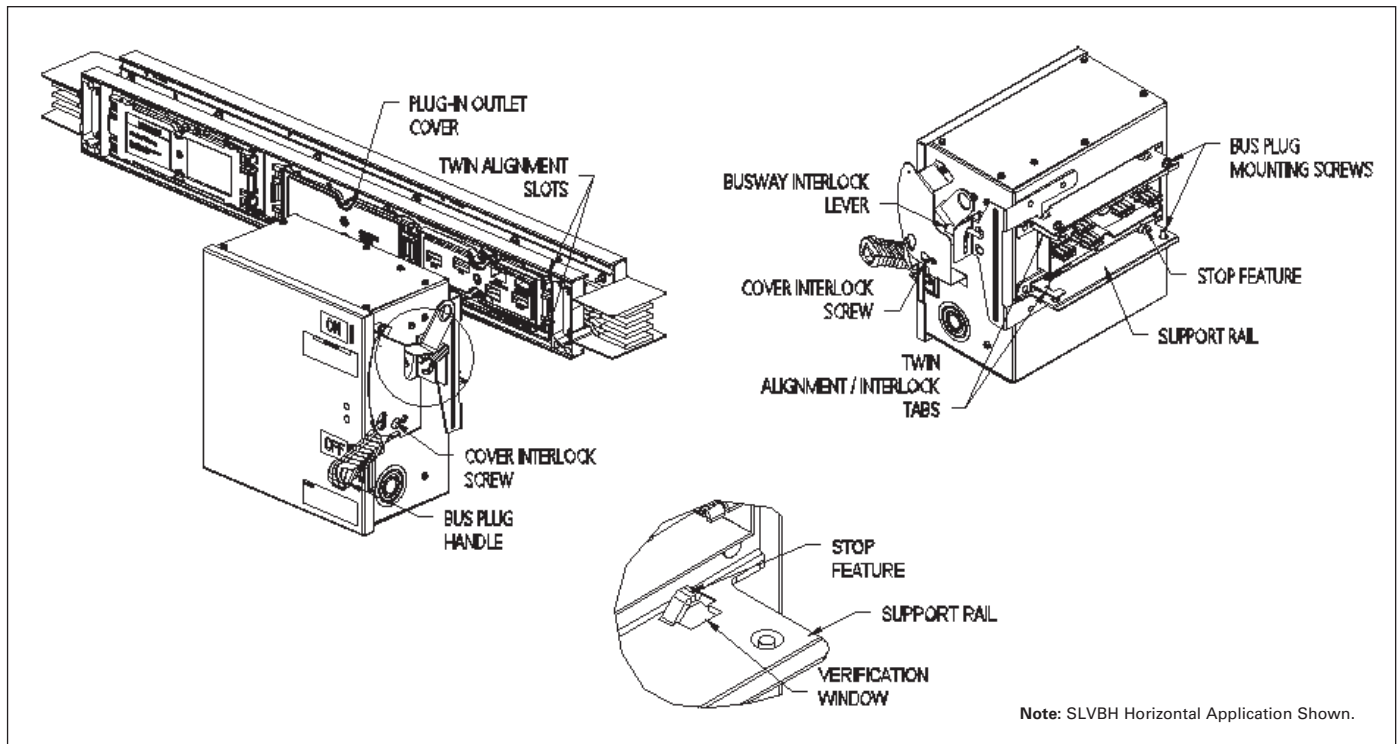
- IP40
- IP55

Conductors:

- 3-phase, 3-wire
- 3-phase, 4-wire
- 3-phase, 4-wire 200% neutral (400A and below)

Grounding:

- Integral (Housing)
- Internal
- Isolated



[Ⓞ] Contact Siemens for 200% Neutral Applications.

Sentron® Busway Systems – Reference Information

Technical Data

Technical

R, X, Z and Ohms, Voltage Drop

Ampere Rating	Bus Bar Width x 0.25 in. (6.4mm) Thick	Ohms x 10 ³ per 100 feet			Voltage Drop - Concentrated Loads, Line-to-Line per 100 feet at 100% Rated Load, 35°C Ambient ^{①③⑦}								
		Line to Neutral R	X	Z	Power Factor 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0								
AL L-Rated[®]													
225 —	1.75 (44.5)	3.94	1.13	4.10	0.88	1.02	1.15	1.27	1.39	1.49	1.57	1.54	
400 —	1.75 (44.5)	4.08	1.23	4.26	1.66	1.91	2.15	2.38	2.58	2.77	2.91	2.83	
600 —	1.75 (44.5)	4.26	1.32	4.46	2.64	3.03	3.40	3.75	4.08	4.37	4.58	4.43	
800 400	2.38 (60.5)	3.42	1.06	3.58	2.82	3.24	3.64	4.02	4.36	4.67	4.90	4.74	
1000 600	3.25 (82.6)	2.45	0.74	2.56	2.50	2.88	3.24	3.57	3.89	4.17	4.38	4.24	
1200 800	4.38 (111.3)	1.86	0.59	1.95	2.32	2.66	2.99	3.29	3.58	3.82	4.01	3.87	
1350 1000	5.38 (138.7)	1.39	0.24	1.41	1.50	1.81	2.10	2.39	2.67	2.93	3.17	3.25	
1600 1200	6.50 (165.1)	1.21	0.48	1.29	2.19	2.48	2.75	3.00	3.23	3.43	3.56	3.35	
2000 1350,1600	8.75 (222.3)	0.91	0.35	0.98	2.11	2.38	2.64	2.87	3.08	3.26	3.37	3.16	
2500 2000	(2) 5.63 (143.0)	0.68	0.29	0.74	2.09	2.34	2.57	2.78	2.97	3.12	3.21	2.95	
3000 2500	(2) 6.75 (171.5)	0.54	0.28	0.61	2.24	2.47	2.67	2.85	3.01	3.12	3.16	2.80	
3200 2000	(2) 7.50 (190.5)	0.48	0.33	0.58	2.53	2.73	2.91	3.06	3.17	3.23	3.20	2.68	
4000 3000,3200	(2) 9.00 (228.6)	0.62	0.21	0.51	2.34	2.61	2.85	3.08	3.27	3.43	3.51	3.20	
CU M-Rated[®]													
225 —	1.75 (44.5)	2.34	1.13	2.60	0.69	0.77	0.84	0.90	0.95	0.99	1.01	0.91	
400 —	1.75 (44.5)	2.44	1.13	2.69	1.26	1.40	1.52	1.64	1.74	1.82	1.86	1.69	
600 —	1.75 (44.5)	2.58	1.16	2.83	1.96	2.18	2.39	2.58	2.74	2.87	2.94	2.68	
800 400	1.75 (44.5)	2.71	1.17	2.95	2.67	2.98	3.28	3.55	3.78	3.97	4.08	3.76	
1000 —	2.25 (67.2)	2.12	0.98	2.30	2.58	2.88	3.17	3.44	3.67	3.86	3.98	3.67	
1200 600	2.88 (73.2)	1.66	0.77	1.83	2.56	2.85	3.11	3.35	3.56	3.72	3.80	3.45	
1350 800	3.50 (88.9)	1.30	0.64	1.45	2.34	2.59	2.82	3.03	3.20	3.33	3.39	3.04	
1600 1000	4.50 (114.3)	1.06	0.56	1.20	2.37	2.60	2.66	3.01	3.17	3.29	3.32	2.94	
2000 1200,1350	6.00 (152.4)	0.77	0.44	0.89	2.27	2.48	2.50	2.83	2.96	3.05	3.07	2.66	
— 1600	—	—	—	—	—	—	—	—	—	—	—	—	
2500 2000	8.50 (215.9)	0.55	0.35	0.65	2.15	2.34	2.50	2.64	2.75	2.82	2.81	2.39	
3000 —	(2) 4.75 (120.7)	0.49	0.27	0.56	2.07	2.28	2.46	2.62	2.76	2.86	2.89	2.54	
3200 —	(2) 5.50 (139.7)	0.44	0.30	0.53	2.33	2.51	2.67	2.80	2.90	2.96	2.93	2.44	
4000 2500,3000,3200	(2) 6.50 (165.1)	0.36	0.15	0.39	1.76	1.97	2.17	2.35	2.51	2.63	2.71	2.49	
5000 4000	(2) 8.50 (215.9)	0.30	0.21	0.37	2.49	2.69	2.86	3.00	3.11	3.17	3.15	2.63	

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BUSWAY
SYSTEMS

Notes:

① For plug-in distributed loads, divide voltage drop values by 2.

② To determine voltage drop line-to-neutral, multiply line-to-line values by 0.577.

③ Actual voltage drop for different lengths and at loadings less than full rated current can be calculated using the formula:

$$V_d(\text{actual}) = V_d(\text{table}) \times \frac{\text{actual load}}{\text{rated load}} \times \frac{\text{actual length (ft)}}{100 \text{ feet}}$$

④ For 50 Hz, multiply reactance (X) by 0.85 and resistance values do not change. For 400 Hz, multiply reactance by 3.75 and multiply resistance by 1.4. Calculate new voltage drop:

$$V_d = \text{amps load} \times \sqrt{3(R\cos\theta + X\sin\theta)} \text{ per 100 ft, where } \cos\theta = \text{Power Factor.}$$

⑤ For metric conversion R, X, Z values "in Ohms per meters Line to Neutral"

R x .0328
 X x .0328
 Z x .0328

⑥ For metric conversion "Line to Line per meter at 25° C ambient in mV/A/m" (Vd 32.8) / A. Divide Vd by 2 for distributed loads.

⑦ Voltage Drop will decrease in lower ambient temperature. Contact Siemens for Voltage Drop in other ambient conditions.

Sentron® Busway Systems – Reference Information

Technical Data

Technical

Ground Capacity

Ampere Rating	Bus Bar Width Inches (mm)	Bars per Pole	Min. CSA for Ground Bus per UL 857 Table 14 In2 (mm2)	Sectional Area 50% Internal Ground Bar In2 (mm2)	Integral (Hsg.) Ground In2 (mm2)	Effective Current Carrying Capacity of Housing		Grd. Circuit Characteristics under Fault Conditions Ohms x 103 per 100 ft					
						% of UL Req	% of Phase Bar	Internal Ground			Housing Ground		
								R	X	Z	R	X	Z
A L-Rated													
225 —	1.75 (44.5)	1	0.08 (53.5)	0.22 (141.1)	2.30 (1485.1)	1333	253	10.267	9.037	4.872	14.200	12.963	5.797
400 —	1.75 (44.5)	1	0.17 (107.1)	0.22 (141.1)	2.30 (1485.1)	667	253	10.267	9.037	4.872	14.200	12.963	5.797
600 —	1.75 (44.5)	1	0.17 (107.1)	0.22 (141.1)	2.30 (1485.1)	667	253	10.267	9.037	4.872	14.200	12.963	5.797
800 400	2.38 (60.5)	1	0.17 (107.1)	0.30 (191.9)	2.40 (1550.1)	688	192	8.063	7.333	3.351	11.150	10.000	4.932
1000 600	3.25 (82.6)	1	0.20 (126.5)	0.41 (262.1)	2.54 (1639.9)	607	147	7.208	6.628	2.833	9.202	8.442	3.662
1200 800	4.38 (111.1)	1	0.23 (146.5)	0.55 (352.8)	2.72 (1756.6)	552	115	6.358	5.852	2.487	7.625	6.926	3.189
1350 1000	5.38 (136.5)	1	0.29 (189.7)	0.67 (433.5)	2.88 (1859.8)	446	9	5.561	5.115	2.182	6.478	5.883	2.713
1600 1200	6.50 (165.1)	1	0.29 (189.7)	0.81 (524.2)	3.06 (1975.4)	467	84	4.837	4.489	1.801	5.687	5.206	2.289
2000 1350,1600	8.75 (222.3)	1	0.35 (227.7)	1.09 (705.6)	3.42 (2207.7)	425	69	3.735	3.467	1.390	4.565	4.267	1.623
2500 2000	5.63 (142.9)	2	0.52 (332.3)	1.41 (907.3)	3.85 (2480.7)	320	59	3.169	2.955	1.145	4.129	3.837	1.526
3000 2500	6.75 (171.5)	2	0.59 (380.0)	1.69 (1088.7)	4.20 (2711.9)	301	53	2.848	2.683	0.954	3.835	3.635	1.221
3200 2000	7.50 (190.5)	2	0.81 (522.6)	1.88 (1209.7)	4.44 (2866.8)	229	51	2.648	2.493	0.894	3.614	3.428	1.144
4000 3000,3200	9.00 (228.6)	2	0.81 (522.6)	2.25 (1451.6)	4.92 (3176.5)	250	50	2.446	2.339	0.715	3.500	3.378	0.916
CU M-Rated													
225 —	1.75 (44.5)	1	0.05 (33.5)	0.22 (141.1)	2.30 (1485.1)	2128	261	7.380	6.330	3.803	11.338	10.083	5.183
400 —	1.75 (44.5)	1	0.11 (67.7)	0.22 (141.1)	2.30 (1485.1)	1054	261	7.380	6.330	3.803	11.338	10.083	5.183
600 —	1.75 (44.5)	1	0.11 (67.7)	0.22 (141.1)	2.30 (1485.1)	1054	261	7.380	6.330	3.803	11.338	10.083	5.183
800 400	1.75 (44.5)	1	0.11 (67.7)	0.22 (141.1)	2.30 (1485.1)	1054	261	7.380	6.330	3.803	11.338	10.083	5.183
1000 —	2.25 (57.2)	1	0.13 (85.2)	0.28 (181.5)	2.38 (1536.7)	860	207	6.715	5.993	3.029	10.194	9.191	4.409
1200 600	2.88 (73.0)	1	0.18 (114.2)	0.36 (231.9)	2.48 (1601.8)	661	166	6.186	5.676	2.460	8.996	8.212	3.674
1350 800	3.50 (88.9)	1	0.24 (152.3)	0.44 (282.3)	2.58 (1665.8)	510	140	5.704	5.267	2.188	8.000	7.492	2.807
1600 1000	4.50 (114.3)	1	0.24 (152.3)	0.56 (362.9)	2.74 (1769.0)	534	113	4.719	4.323	1.893	7.411	6.880	2.756
2000 1200,1350	6.00 (152.4)	1	0.29 (189.7)	0.75 (483.9)	2.98 (1923.8)	457	90	3.507	3.181	1.476	6.422	6.032	2.205
— 1600	6.50 (165.1)	1	0.29 (189.7)	0.81 (524.2)	3.06 (1975.4)	467	84	4.837	4.489	1.801	5.687	5.206	2.289
2500 2000	8.50 (215.9)	1	0.35 (227.7)	1.06 (685.5)	3.38 (2181.9)	421	70	2.294	2.020	1.087	3.072	5.419	1.764
3000 —	4.75 (120.7)	2	0.41 (265.8)	1.19 (766.1)	3.56 (2290.0)	376	66	2.117	1.874	0.984	4.859	4.631	1.470
3200 —	5.50 (139.7)	2	0.59 (380.0)	1.38 (887.1)	3.80 (2453.9)	277	60	1.938	1.691	0.947	4.353	4.129	1.378
4000 2500,3000,3200	6.50 (165.1)	2	0.59 (380.0)	1.63 (1048.4)	4.12 (2660.3)	296	54	1.688	1.500	0.773	3.334	3.060	1.323
5000 4000	8.50 (215.9)	2	0.71 (456.1)	2.13 (1371.0)	4.76 (3073.2)	278	50	1.360	1.218	0.606	1.989	1.783	0.882

Note: Bus bar thickness = .25 in. (6.4mm), Ground bar thickness = .125 in.(3.18mm)

UL Short Circuit Ratings				UL Series Connected with Fuse			
Ampere Rating		RMS Symmetrical (kA)			Maximum Fuse Size for 200kA RMS Symmetrical Rating		
		6 cycle	1 sec.	3 sec.	Class R	Class J & T	Class L
AL L-Rated							
225 —		85	28	16	600	600 J & T	—
400 —		85	28	16	600	600 J & T	—
600 —		85	28	16	600	600 J & T	—
800 400		100	47	27	—	800 T	1200
1000 600		100	50	29	—	—	3000
1200 800		125	60	35	—	—	3000
1350 1000		150	75	43	—	—	3000
1600 1200		150	90	52	—	—	3000
2000 1350,1600		150	110	64	—	—	5000
2500 2000		200	130	75	—	—	5000
3000 2500		200	160	92	—	—	—
3200 2000		200	160	92	—	—	—
4000 3000,3200		200	200	115	—	—	—
CU M-Rated							
225 —		85	40	23	600	600 J & T	—
400 —		85	40	23	600	600 J & T	—
600 —		85	40	23	600	600 J & T	—
800 400		85	40	23	—	800 T	1600
1000 —		100	50	29	—	—	3000
1200 600		100	65	38	—	—	3000
1350 800		100	80	46	—	—	3000
1600 1000		125	95	55	—	—	4000
2000 1200,1350		150	115	66	—	—	5000
— 1600		150	90	52	—	—	3000
2500 2000		150	130	75	—	—	5000
3000 —		200	175	101	—	—	—
3200 —		200	175	101	—	—	—
4000 2500,3000,3200		200	200	115	—	—	—
5000 4000		200	200	115	—	—	—

Sentron Busway has UL approved Series Ratings. By using the appropriate line side fuse, short circuit ratings can be enhanced to 200kA for lower amperage busway.

Sentron® Busway Systems – Reference Information

Straight Sections – Plug-In, Riser and Feeder

Selection

Straight Sections

Sentron Busway can be ordered with Aluminum or Copper bus bars. Aluminum bars are available in 225-4000 ampere sections. Copper bars are available in 225-5000 ampere sections. Sentron Busway includes an integral housing ground, and is available with an internal ground bar or an isolated ground bar in all ampere ratings. Sentron Busway housing is a four-piece aluminum design.

Plug-In Sections

Sentron plug-in sections are designed with plug-in openings centered on 24 in. (610mm) intervals, and are located on both sides of the busway for optimum utilization. Plug-in sections are available in standard lengths of 4 ft. (1.22m), 6 ft. (1.83m), 8 ft. (2.44m) and 10 ft. (3.05m). Sentron plug-in sections meet IP40

(indoor) and IP55 (splash proof) requirements. One joint stack assembly is provided with each plug-in section.

Riser Sections

Sentron Riser sections are designed with plug-in openings centered on 24 in. (610mm) intervals on one side of the busway only. This eliminates unusable plug-in outlets in vertical applications. Riser busway is available in standard lengths of 4 ft. (1.22m), 6 ft. (1.83m), 8 ft. (2.44m) and 10 ft. (3.05m). Sentron Riser Busway is available in IP40 (indoor) and IP55 (splash proof). One joint stack assembly is provided with each riser section.

Plug-In Outlet Features

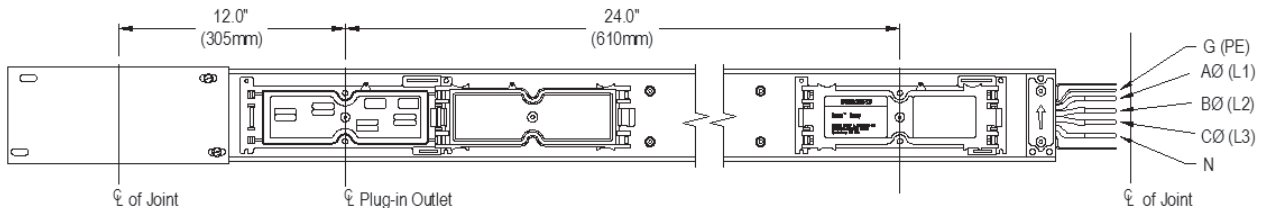
The plug-in outlet molded guard design prevents incidental finger contact with live conductors. Sentron plug-in outlets

are IP 2X rated (with the outlet cover open) which means a .472 in. (12mm) or larger probe is unable to enter a plug-in outlet. The outlet is IP40 Rated with the cover closed and IP55 Rated when configured with gaskets.

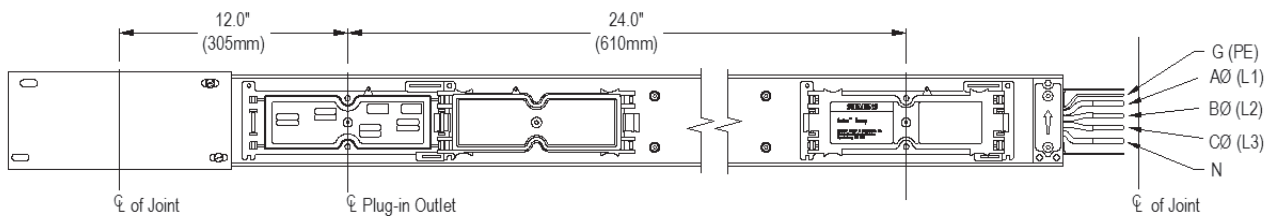
Feeder Sections

Feeder busway carries the current of the busway system from the supply source. Feeder busway does not have plug-in outlets. Sentron Feeder busway is available in custom lengths from 2 ft. (.61m) to 10 ft. (3.05m). Feeder sections are rated as IP40 (Indoor), IP55 (Splash Proof), NEMA 3R (Outdoor), and IP66 (Severe Outdoor). One joint stack assembly is provided with each feeder section.

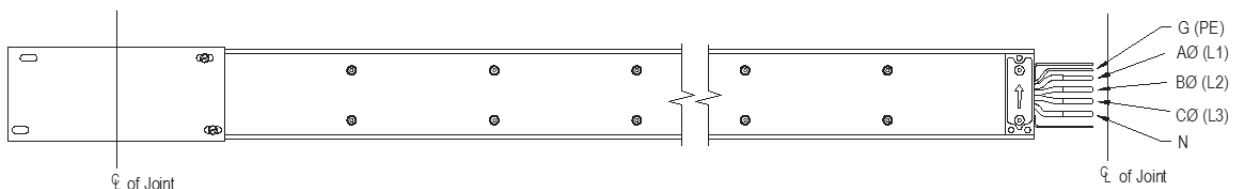
Standard Plug-In Section (Standard plug-in outlets on both sides on 24 in. centers)
Suffix PL04 (4 ft.), PL06 (6 ft.), PL08 (8 ft.), PL10 (10 ft.)



Standard Riser Section (Standard Plug-In outlets on one side on 24 in. centers)
Suffix RI04 (4 ft.), RI06 (6 ft.), RI08 (8 ft.), RI10 (10 ft.)



Standard Feeder Section
Suffix F024 - 120 (last 3 digits = length in Inches, 024=24 in., 120=120 in.)

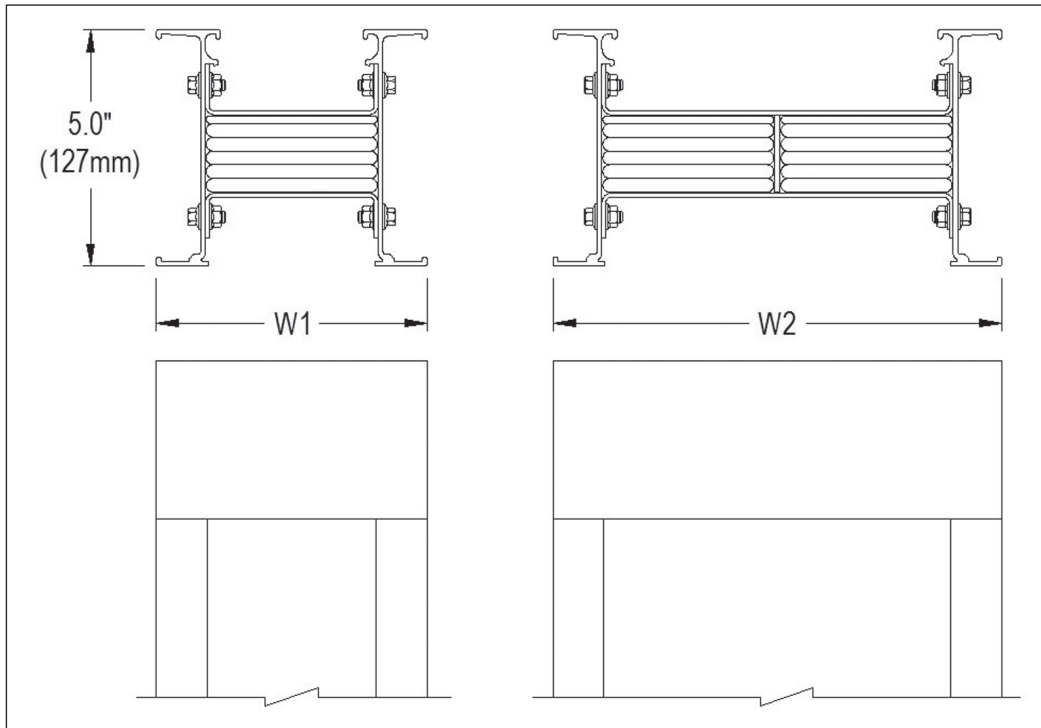


Sentron® Busway Systems – Reference Information

Selection

Sentron Busway, Widths and Weights

Ampere Rating	Dimension Inches (mm)	Approximate Weight - lbs per ft. (kg per meter)							
		3Ø, 3-Wire	3Ø, 3-Wire with Internal Ground	3Ø, 4-Wire	3Ø, 4-Wire with Internal Ground	3Ø, 4-Wire 200% Neutral with Internal Ground			
AL	L-Rated								
225	—	"W1"	3.9 (99)	5 (8)	5 (8)	6 (9)	6 (9)	7 (10)	7 (10)
400	—	"W1"	3.9 (99)	5 (8)	5 (8)	6 (9)	6 (9)	7 (10)	7 (10)
600	—	"W1"	3.9 (99)	5 (8)	5 (8)	6 (9)	6 (9)	7 (10)	7 (10)
800	400	"W1"	4.6 (117)	6 (9)	6 (9)	7 (10)	7 (10)	7 (11)	8 (11)
1000	600	"W1"	5.4 (137)	7 (10)	7 (11)	8 (12)	8 (12)	9 (13)	9 (14)
1200	800	"W1"	6.6 (168)	8 (12)	9 (13)	9 (14)	10 (15)	11 (16)	11 (17)
1350	1000	"W1"	7.6 (193)	9 (13)	10 (15)	11 (16)	11 (17)	12 (18)	13 (19)
1600	1200	"W1"	8.7 (221)	10 (15)	11 (17)	12 (18)	13 (19)	14 (21)	15 (22)
2000	1250,1600	"W1"	10.9 (277)	13 (19)	14 (21)	15 (23)	16 (24)	18 (26)	19 (28)
2500	2000	"W2"	13.7 (348)	15 (22)	17 (25)	8 (27)	20 (30)	22 (33)	23 (34)
3000	2500	"W2"	15.8 (402)	17 (25)	19 (28)	21 (31)	23 (34)	25 (37)	27 (40)
3200	2000	"W2"	17.3 (439)	18 (27)	20 (30)	23 (34)	25 (37)	27 (40)	29 (43)
4000	3000,3200	"W2"	20.3 (516)	22 (33)	25 (37)	27 (40)	30 (44)	32 (48)	35 (52)
CU	M-Rated								
225	—	"W1"	3.9 (99)	9 (13)	10 (14)	10 (16)	11 (17)	12 (18)	13 (19)
400	—	"W1"	3.9 (99)	9 (13)	10 (14)	10 (16)	11 (17)	12 (18)	13 (19)
600	—	"W1"	3.9 (99)	9 (13)	10 (14)	10 (16)	11 (17)	12 (18)	13 (19)
800	400	"W1"	3.9 (99)	9 (13)	10 (14)	10 (16)	11 (17)	12 (18)	13 (19)
1000	—	"W1"	4.4 (112)	10 (15)	11 (17)	12 (19)	14 (20)	15 (22)	16 (23)
1200	600	"W1"	5.1 (130)	12 (18)	14 (20)	15 (23)	16 (24)	18 (26)	19 (29)
1350	800	"W1"	5.7 (145)	14 (21)	16 (24)	17 (26)	19 (29)	21 (31)	23 (34)
1600	1000	"W1"	6.7 (170)	17 (26)	19 (29)	22 (32)	24 (35)	26 (38)	28 (42)
2000	1200,1350	"W1"	8.2 (208)	22 (32)	25 (37)	28 (41)	30 (45)	33 (50)	36 (54)
—	1600	"W1"	10.9 (277)	13 (19)	14 (21)	5 (23)	16 (24)	18 (26)	19 (28)
2500	2000	"W1"	10.7 (272)	30 (44)	34 (50)	38 (56)	42 (62)	46 (68)	50 (74)
3000	—	"W2"	11.8 (300)	33 (49)	37 (55)	42 (63)	47 (70)	51 (76)	56 (83)
3200	—	"W2"	13.3 (335)	37 (55)	2 (63)	48 (72)	53 (79)	58 (86)	64 (95)
4000	2500,3000,3200	"W2"	15.3 (389)	43 (64)	50 (75)	56 (83)	62 (92)	68 (101)	75 (112)
5000	4000	"W2"	19.3 (491)	56 (83)	4 (95)	72 (107)	80 (119)	89 (132)	97 (145)



Sentron® Busway Systems – Reference Information

Elbows

Selection

Sentron Busway elbows provide a simple, convenient method of changing the direction (left, right, up or down) of a busway run. Two elbow styles are offered: elbow stack and elbow section.

Flatwise Elbow Stacks, Dimensions (standard/min.)		Dimensions Inches (mm) "A"
Ampere Rating		
AL	L-Rated	
225	—	1.00 (25)
400	—	1.00 (25)
600	—	1.00 (25)
800	400	1.12 (28)
1000	600	2.00 (51)
1200	800	2.50 (64)
1350	1000	3.00 (76)
1600	1200	3.50 (89)
2000	1350,1600	4.62 (117)
2500	2000	5.75 (146)
3000	2500	7.00 (178)
3200	2000	7.75 (197)
4000	3000,3200	9.35 (237)
CU	M-Rated	
225	—	1.00 (25)
400	—	1.00 (25)
600	—	1.00 (25)
800	400	1.00 (25)
1000	—	1.12 (28)
1200	600	.25 (33)
1350	800	2.00 (50)
1600	1000	2.50 (64)
2000	1200,1350	3.25 (83)
—	1600	4.62 (117)
2500	2000	4.50 (114)
3000	—	5.00 (127)
3200	—	5.75 (146)
4000	2500,3000,3200	6.75 (171)
5000	4000	8.87 (225)

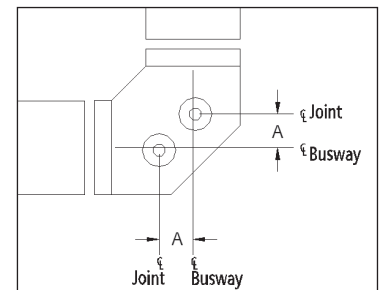
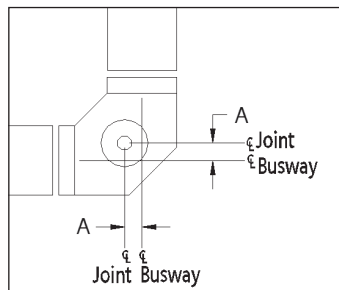
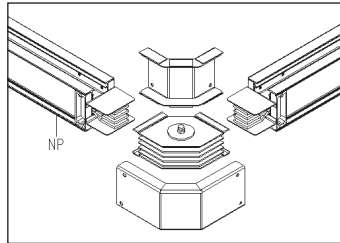
Note: Flatwise elbow stacks can be ordered as either right-hand (ESFR) or left-hand (ESFL) to follow the same nomenclature as an elbow section. The construction is identical and interchangeable.

Flatwise Elbow Stacks

Flatwise elbow stacks are used for left and right directional changes. When the busway system is mounted flatwise in the horizontal plane (bus bars run parallel to the floor).

Flat

Suffix ESFR/ESFL

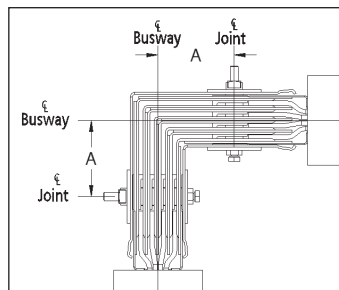


Edgewise Elbow Stacks, Dimensions (standard/min.)		Dimensions Inches (mm) "A"
Ampere Rating		
AL	L-Rated	
225	—	4.25 (108)
400	—	4.25 (108)
600	—	4.25 (108)
800	400	4.25 (108)
1000	600	4.25 (108)
1200	800	4.25 (108)
1350	1000	4.25 (108)
1600	1200	4.25 (108)
2000	1350,1600	4.25 (108)
2500	2000	4.25 (108)
3000	2500	4.25 (108)
3200	2000	4.25 (108)
CU	M-Rated	
225	—	4.25 (108)
400	—	4.25 (108)
600	—	4.25 (108)
800	400	4.25 (108)
1000	—	4.25 (108)
1200	600	4.25 (108)
1350	800	4.25 (108)
1600	1000	4.25 (108)
2000	1200,1350	4.25 (108)
—	1600	4.25 (108)
2500	2000	4.25 (108)
3000	—	4.25 (108)
3200	—	4.25 (108)
4000	2500,3000,3200	4.25 (108)
5000	4000	4.25 (108)

Note: Edge up and edge down elbow stacks are not interchangeable.

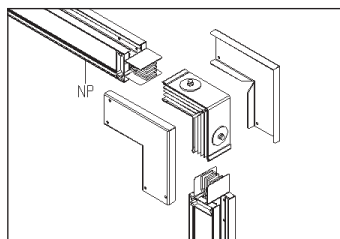
Edgewise Elbow Stacks

Edgewise elbow stacks create up and down directional changes. The "A" phase is on the inside of the bend for edge up elbow stacks. The "A" phase is on the outside of the bend for edge down elbow stacks.



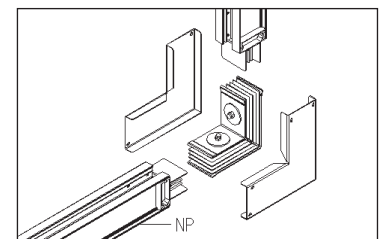
Edge Down

Suffix ESED



Edge Up

Suffix ESEU



Sentron® Busway Systems – Reference Information

Elbows

Selection

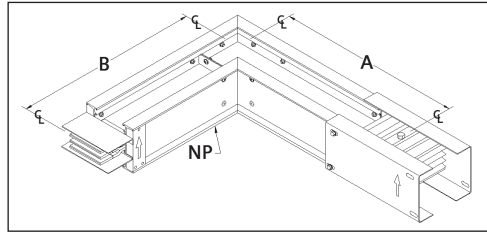
Flatwise Elbow Sections, Dimensions (standard/min.)			
Ampere Rating		Dimensions Inches (mm)	
		"A"	"B"
AL	L-Rated		
225	—	12 (305)	12 (305)
400	—	12 (305)	12 (305)
600	—	12 (305)	12 (305)
800	400	12 (305)	12 (305)
1000	600	12(305)	12 (305)
1200	800	12 (305)	12 (305)
1350	1000	12 (305)	12 (305)
1600	1200	18 (457)	18 (457)
2000	1350,1600	18 (457)	18 (457)
2500	2000	18 (457)	18 (457)
3000	2500	18 (457)	18 (457)
3200	2000	18 (457)	18 (457)
4000	3000,3200	24 (610)	24 (610)
CU	M-Rated		
225	—	12 (305)	12 (305)
400	—	12 (305)	12 (305)
600	—	12 (305)	12 (305)
800	400	12 (305)	12 (305)
1000	—	12 (305)	12 (305)
1200	600	12 (305)	12 (305)
1350	800	12 (305)	12 (305)
1600	1000	12 (305)	12 (305)
2000	1200,1350	12 (305)	12 (305)
—	1600	18 (457)	18 (457)
2500	2000	18 (457)	18 (457)
3000	—	18 (457)	18 (457)
3200	—	18 (457)	18 (457)
4000	2500,3000,3200	18 (457)	18 (457)
5000	4000	24 (610)	24 (610)

Flatwise Elbow Sections

Flatwise elbow sections are used for left and right directional changes when the busway system is mounted in the horizontal plane (bus bars run parallel to the floor). The joint stack assembly may be moved to the opposite leg to change the orientation from left to right/right to left.

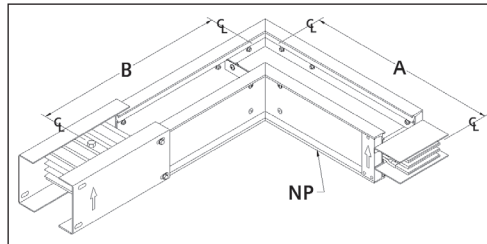
Flat Left

Suffix ELEF



Flat Right

Suffix ELFR



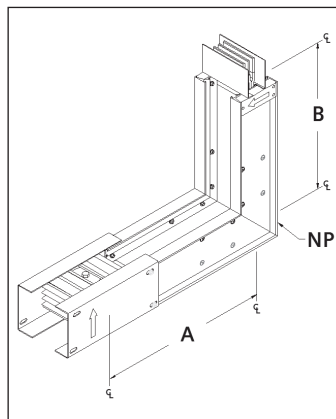
Edgewise Elbow Sections, Dimensions (standard/min.)			
Ampere Rating		Dimensions Inches (mm)	
		"A"	"B"
AL	L-Rated		
225	—	10 (254)	10 (254)
400	—	10 (254)	10 (254)
600	—	10 (254)	10 (254)
800	400	10 (254)	10 (254)
1000	600	10 (254)	10 (254)
1200	800	10 (254)	10 (254)
1350	1000	10 (254)	10 (254)
1600	1200	10 (254)	10 (254)
2000	1350,1600	10 (254)	10 (254)
2500	2000	10 (254)	10 (254)
3000	2500	10 (254)	10 (254)
3200	2000	10 (254)	10 (254)
4000	3000,3200	10 (254)	10 (254)
CU	M-Rated		
225	—	10 (254)	10 (254)
400	—	10 (254)	10 (254)
600	—	10 (254)	10 (254)
800	400	10 (254)	10 (254)
1000	—	10 (254)	10 (254)
1200	600	10 (254)	10 (254)
1350	800	10 (254)	10 (254)
1600	1000	10 (254)	10 (254)
2000	1200,1350	10 (254)	10 (254)
—	1600	10 (254)	10 (254)
2500	2000	10 (254)	10 (254)
3000	—	10 (254)	10 (254)
3200	—	10 (254)	10 (254)
4000	2500,3000,3200	10 (254)	10 (254)
5000	4000	10 (254)	10 (254)

Edgewise Elbow Sections

Edgewise elbow sections create up and down directional changes. The "A" phase bus bar lies on the inside of the bend for edge up elbows. The "A" phase bus bar lies on the outside of the bend for edge down elbows. The joint stack assembly on edgewise elbows can not be moved in order to change orientation from up to down/down to up. Sentron Busway elbow sections are shipped with a joint stack assembly on one end for direct connection to the busway system.

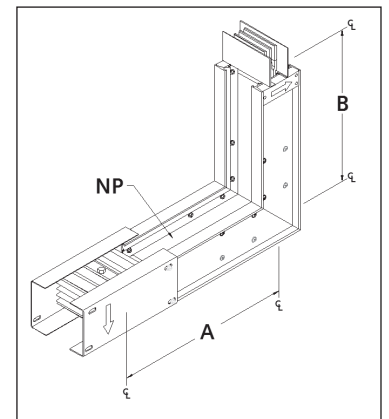
Edge Up

Suffix ELEU



Edge Down

Suffix ELED



Note : Odd angle elbow flatwise and edgewise elbow sections are available for angles 95° - 175° in 5° increments.

Sentron® Busway Systems – Reference Information

Selection

Offsets

Offsets can be utilized to solve difficult contour problems and save space. In applications where space does not allow for two connected elbows, a single offset can bypass an obstruction. All offsets are supplied with one joint stack assembly.

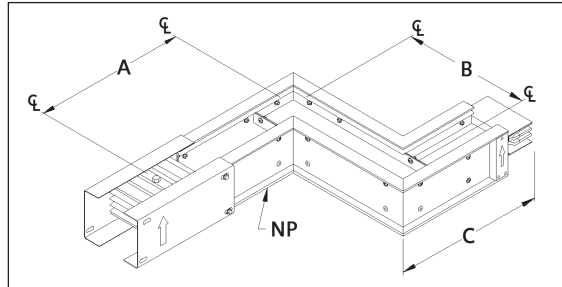
Flatwise Offsets, Dimensions (standard/min.)				
Ampere Rating		Dimensions Inches (mm)		
		"A"	"B"	"C"
AL	L-Rated			
225	—	12 (305)	5 (127)	12 (305)
400	—	12 (305)	5 (127)	12 (305)
600	—	12 (305)	5 (127)	12 (305)
800	400	12 (305)	5 (127)	12 (305)
1000	600	12 (305)	5 (127)	12 (305)
1200	800	12 (305)	5 (127)	12 (305)
1350	1000	12 (305)	5 (127)	12 (305)
1600	1200	18 (457)	5 (127)	18 (457)
2000	1350,1600	18 (457)	5 (127)	18 (457)
2500	2000	18 (457)	5 (127)	18 (457)
3000	2500	18 (457)	5 (127)	18 (457)
3200	2000	18 (457)	5 (127)	18 (457)
4000	3000,3200	24 (610)	8 (203)	24 (610)
CU	M-Rated			
225	—	12 (305)	5 (127)	12 (305)
400	—	12 (305)	5 (127)	12 (305)
600	—	12 (305)	5 (127)	12 (305)
800	400	12 (305)	5 (127)	12 (305)
1000	—	12 (305)	5 (127)	12 (305)
1200	600	12 (305)	5 (127)	12 (305)
1350	800	12 (305)	5 (127)	12 (305)
1600	1000	12 (305)	5 (127)	12 (305)
2000	1200,1350	12 (305)	5 (127)	12 (305)
—	1600			
2500	2000	18 (457)	5 (127)	18 (457)
3000	—	18 (457)	5 (127)	18 (457)
3200	—	18 (457)	5 (127)	18 (457)
4000	2500,3000,3200	18 (457)	5 (127)	18 (457)
5000	4000	24 (610)	8 (203)	24 (610)

Edgewise Offsets, Dimensions (standard/min.)				
Ampere Rating		Dimensions Inches (mm)		
		"A"	"B"	"C"
AL	L-Rated			
225	—	10 (254)	6 (152)	10 (254)
400	—	10 (254)	6 (152)	10 (254)
600	—	10 (254)	6 (152)	10 (254)
800	400	10 (254)	6 (152)	10 (254)
1000	600	10 (254)	6 (152)	10 (254)
1200	800	10 (254)	6 (152)	10 (254)
1350	1000	10 (254)	6 (152)	10 (254)
1600	1200	10 (254)	6 (152)	10 (254)
2000	1350,1600	10 (254)	6 (152)	10 (254)
2500	2000	10 (254)	6 (152)	10 (254)
3000	2500	10 (254)	6 (152)	10 (254)
3200	2000	10 (254)	6 (152)	10 (254)
4000	3000,3200	10 (254)	6 (152)	10 (254)
CU	M-Rated			
225	—	10 (254)	6 (152)	10 (254)
400	—	10 (254)	6 (152)	10 (254)
600	—	10 (254)	6 (152)	10 (254)
800	400	10 (254)	6 (152)	10 (254)
1000	—	10 (254)	6 (152)	10 (254)
1200	600	10 (254)	6 (152)	10 (254)
1350	800	10 (254)	6 (152)	10 (254)
1600	1000	10 (254)	6 (152)	10 (254)
2000	1200,1350	10 (254)	6 (152)	10 (254)
—	1600			
2500	2000	10 (254)	6 (152)	10 (254)
3000	—	10 (254)	6 (152)	10 (254)
3200	—	10 (254)	6 (152)	10 (254)
4000	2500,3000,3200	10 (254)	6 (152)	10 (254)
5000	4000	10 (254)	6 (152)	10 (254)

*Note: Leg Dimensions A and C have been reversed from prior publications.

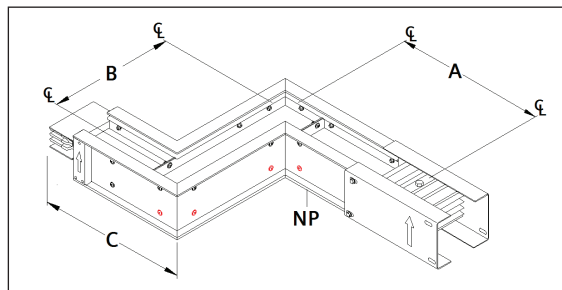
Flat Right

Suffix OFFR



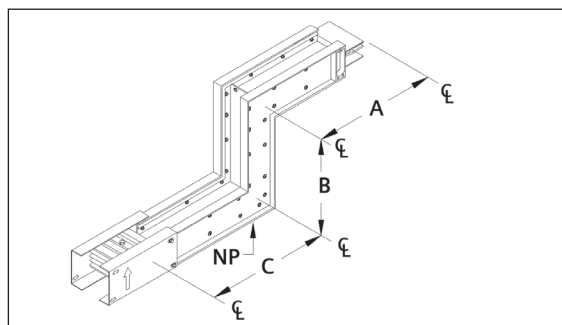
Flat Left

Suffix OFFL



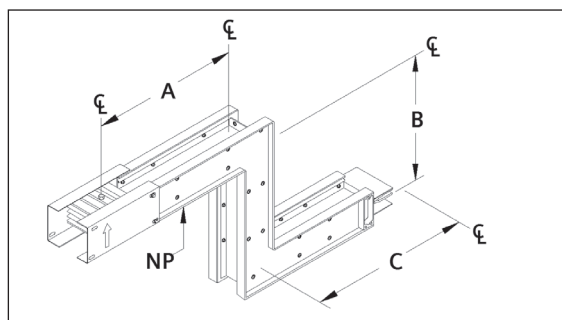
Edge Up

Suffix OFEU



Edge Down

Suffix OFED



Sentron® Busway Systems – Reference Information

Combinations

Selection

Combinations are used to create edge to flat and flat to edge changes in the busway run. One joint stack assembly is shipped with combination.

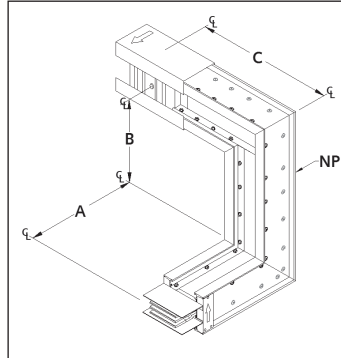
See drawings for minimum dimensions. Consult Busway Order Service for information on custom lengths.

Combinations, Dimensions (standard/min.)					
Ampere Rating		Dimensions Inches (mm)			
		**"A"	"B"	"C"	
AL	L-Rated				
225	—	10 (254)	8 (203)	12 (305)	
400	—	10 (254)	8 (203)	12 (305)	
600	—	10 (254)	8 (203)	12 (305)	
800	400	10 (254)	8 (203)	12 (305)	
1000	600	10 (254)	8 (203)	12 (305)	
1200	800	10 (254)	8 (203)	12 (305)	
1350	1000	10 (254)	8 (203)	12 (305)	
1600	1200	10 (254)	12 (305)	18 (457)	
2000	1350,1600	10 (254)	12 (305)	18 (457)	
2500	2000	10 (254)	12 (305)	18 (457)	
3000	2500	10 (254)	12 (305)	18 (457)	
3200	2000	10 (254)	12 (305)	18 (457)	
4000	3000,3200	10 (254)	16 (406)	24 (610)	
CU	M-Rated				
225	—	10 (254)	8 (203)	12 (305)	
400	—	10 (254)	8 (203)	12 (305)	
600	—	10 (254)	8 (203)	12 (305)	
800	400	10 (254)	8 (203)	12 (305)	
1000	—	10 (254)	8 (203)	12 (305)	
1200	600	10 (254)	8 (203)	12 (305)	
1350	800	10 (254)	8 (203)	12 (305)	
1600	1000	10 (254)	8 (203)	12 (305)	
2000	1200,1350	10 (254)	8 (203)	12 (305)	
—	1600	10 (254)	12 (305)	18 (457)	
2500	2000	10 (254)	12 (305)	18 (457)	
3000	—	10 (254)	12 (305)	18 (457)	
3200	—	10 (254)	12 (305)	18 (457)	
4000	2500,3000,3200	10 (254)	12 (305)	18 (457)	
5000	4000	10 (254)	16 (406)	24 (610)	

*Note: Leg Dimensions A and C have been reversed from prior publications.

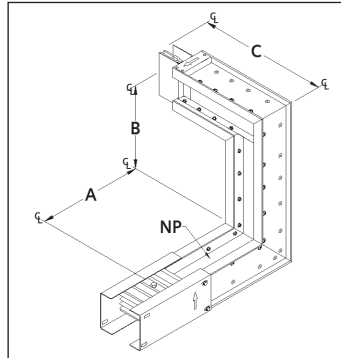
Flat Right - Edge Up

Suffix CORU



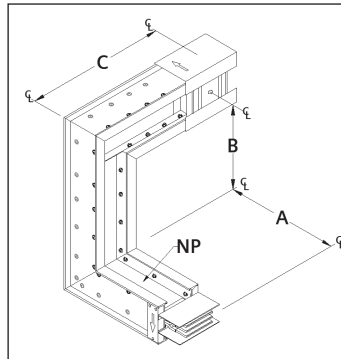
Edge Up - Flat Left

Suffix COUL



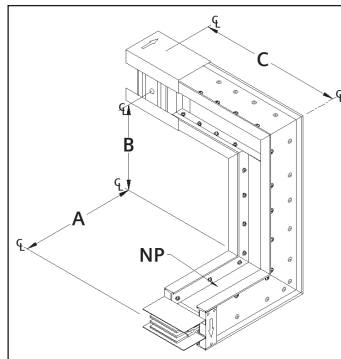
Flat Right - Edge Down

Suffix CORD



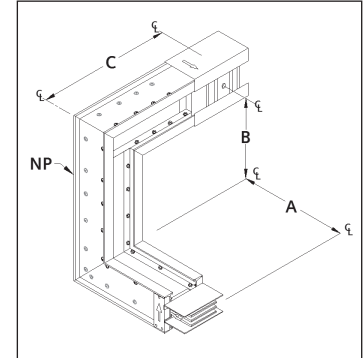
Edge Down - Flat Left

Suffix CODL



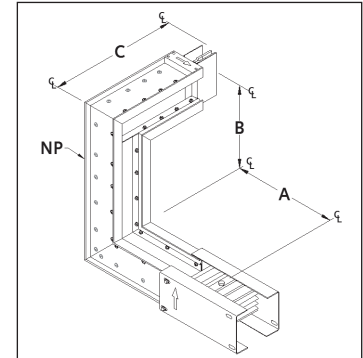
Flat Left - Edge Up

Suffix COLU



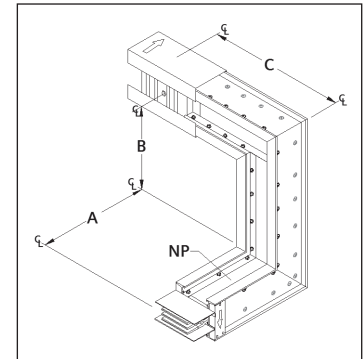
Edge Up - Flat Right

Suffix COUR



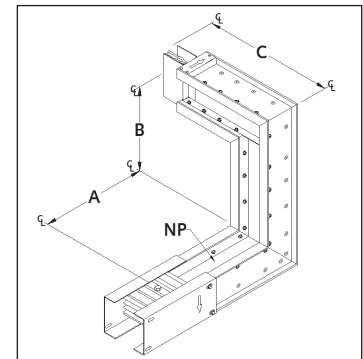
Flat Left - Edge Down

Suffix COLD



Edge Down - Flat Right

Suffix CODR



Sentron® Busway Systems – Reference Information

Center Tap Boxes

Selection

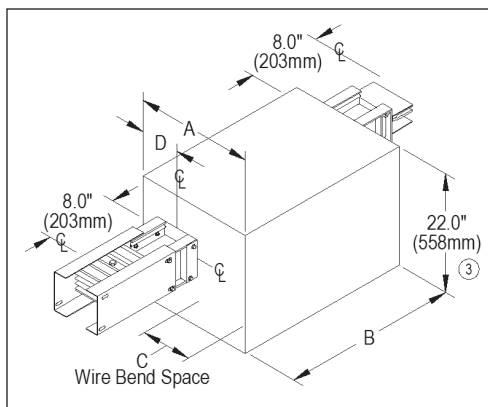
Center tap boxes are non-fusible devices utilized to feed to or take off power from the busway run. When loads served by the busway run do not require over-current protection, center tap boxes may be used. If the application requires additional wiring bending space, extended center tap boxes are available. One joint stack assembly is provided with each center tap box.

Standard and Extended Center End Tap Boxes, Dimensions									
Ampere Rating	Dimensions Inches (mm)			Wire Bend Space			Cable Lugs Per Phase & Neutral		Ground Lugs ^①
	"A" Std.	"B"	"D"	"A" Ext.	"C" Std.	"C" Ext.	Qty.	Size	
AL L-Rated									
225 —	25 (635)	16 (406)	3.9 (99)	29 (737)	17 (432)	21 (533)	1	①	1
225 —	25 (635)	16 (406)	3.9 (99)	29 (737)	17 (432)	21 (533)	1	②	1
400 —	25 (635)	16 (406)	3.9 (99)	29 (737)	17 (432)	21 (533)	1	②	1
600 —	25 (635)	16 (406)	3.9 (99)	29 (737)	17 (432)	21 (533)	2	②	1
800 400	25 (635)	16 (406)	4.2 (107)	29 (737)	17 (432)	21 (533)	3	②	1
1000 600	25 (635)	16 (406)	4.6 (117)	29 (737)	17 (432)	21 (533)	4	②	1
1200 800	29 (737)	16 (406)	5.2 (132)	33 (838)	20 (508)	24 (610)	4	②	1
1350 1000	29 (737)	16 (406)	5.7 (145)	33 (838)	20 (508)	24 (610)	4	②	1
1600 1200	33 (838)	20 (508)	6.3 (160)	37 (940)	20 (508)	24 (610)	5	②	1
2000 1350,1600	33 (838)	20 (508)	7.4 (188)	37 (940)	20 (508)	24 (610)	6	②	2
2500 2000	37 (940)	24 (610)	8.7 (221)	41 (1041)	20 (508)	24 (610)	8	②	2
3000 2500	37 (940)	24 (610)	9.7 (246)	41 (1041)	20 (508)	24 (610)	9	②	2
3200 2000	37 (940)	24 (610)	9.7 (246)	41 (1041)	20 (508)	24 (610)	9	②	2
4000 3000,3200	45 (1143)	28 (711)	11.9 (302)	49 (1245)	20 (508)	24 (610)	12	②	3
CU M-Rated									
225 —	25 (635)	16 (406)	3.9 (99)	29 (737)	17 (432)	21 (533)	1	②	1
400 —	25 (635)	16 (406)	3.9 (99)	29 (737)	17 (432)	21 (533)	1	②	1
600 —	25 (635)	16 (406)	3.9 (99)	29 (737)	17 (432)	21 (533)	2	②	1
800 400	25 (635)	16 (406)	4.2 (107)	29 (737)	17 (432)	21 (533)	3	②	1
1000 —	25 (635)	16 (406)	4.2 (107)	29 (737)	18 (457)	22 (559)	4	②	1
1200 600	29 (737)	16 (406)	4.5 (114)	33 (838)	22 (559)	26 (660)	4	②	1
1350 800	29 (737)	16 (406)	4.8 (122)	33 (838)	21 (533)	25 (635)	4	②	1
1600 1000	29 (737)	20 (508)	5.3 (135)	33 (838)	21 (533)	25 (635)	5	②	1
2000 1200,1350	29 (737)	20 (508)	6.1 (155)	33 (838)	20 (508)	24 (610)	6	②	2
— 1600	33 (838)	20 (508)	6.3 (160)	37 (940)	20 (508)	24 (610)	5	②	1
2500 2000	33 (838)	24 (610)	7.3 (185)	37 (940)	23 (584)	17 (432)	8	②	2
3000 —	33 (838)	24 (610)	7.9 (201)	37 (940)	20 (508)	24 (610)	9	②	2
3200 —	33 (838)	24 (610)	7.9 (201)	37 (940)	20 (508)	24 (610)	9	②	2
4000 2500,3000,3200	37 (940)	28 (711)	9.4 (239)	41 (1041)	20 (508)	24 (610)	12	②	3
5000 4000	40(1016)	34 (863)	11.7(297)	44 (1118)	19 (483)	23 (584)	15	②	4

Center Tap Box

Suffix CTBS (Standard)

Suffix CTBX (Extended)



① #6 AWG -350 kcmil, Cu/Al.
 ② #4 AWG -600 kcmil, Cu/Al.
 ③ 24.0" (610mm) for isolated ground.

Sentron® Busway Systems – Reference Information

In-Line Disconnect Cubicles and Expansion Fittings

Selection

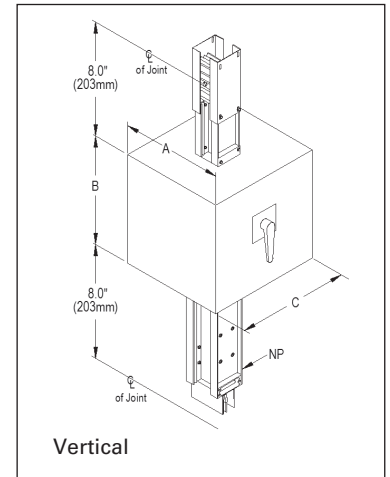
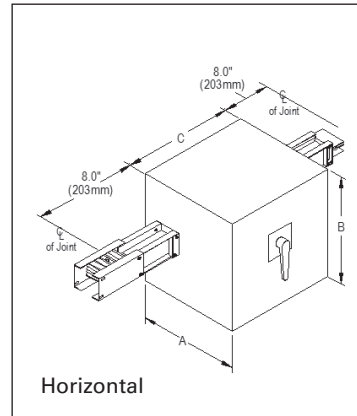
In-Line Disconnect Cubicle, Dimensions ②	
Description of Unit	Type of Disconnect
Fusible Switch	400-600A FK Visible Blade 800-1200A Vacu-Break
Molded Case Circuit Breaker	JD6, LD6, MD6, ND6 PD6, RD6
Digital Sentron Series MCCB's	SJD6, SLD6, SMD6, SND6 SPD6 1600A Frame
Power Circuit Breaker	200-5000A WL ①
Bolted Pressure Switch	800A 1200-2500A 3000A 4000A
ACCESS-compatible	

① Consult your local Siemens sales office for details on WL breakers.
② Consult factory for dimensions.

In-Line Disconnect Cubicles

Cubicles provide a means of mounting switches or circuit breakers where power feeds to or pulls from the busway system. When bolted connections are preferred, cubicles may be used in place of plug-in units. Cubicles can also be used at ampere ratings that exceed standard plug-in unit ratings. Modifications to cubicles can be made in order to accommodate key inter-locks, ground fault detector systems and power monitoring systems.

In-Line Disconnect Cubicle



Expansion Fittings, Dimensions (standard/min.)		
Ampere Rating		Dimensions Inches (mm) "A"
AL	L-Rated	
225	—	13 (330)
400	—	13 (330)
600	—	13 (330)
800	400	13 (330)
1000	600	13 (330)
1200	800	18 (457)
1350	1000	18 (457)
1600	1200	18 (457)
2000	1350,1600	18 (457)
2500	2000	23 (584)
3000	2500	23 (584)
3200	2000	23 (584)
4000	3000,3200	25 (635)
CU	M-Rated	
225	—	13 (330)
400	—	13 (330)
600	—	13 (330)
800	400	13 (330)
1000	—	13 (330)
1200	600	13 (330)
1350	800	13 (330)
1600	1000	18 (457)
2000	1200,1350	18 (457)
—	1600	18 (457)
2500	2000	18 (457)
3000	—	23 (584)
3200	—	23 (584)
4000	2500,3000,3200	23 (584)
5000	4000	25 (635)

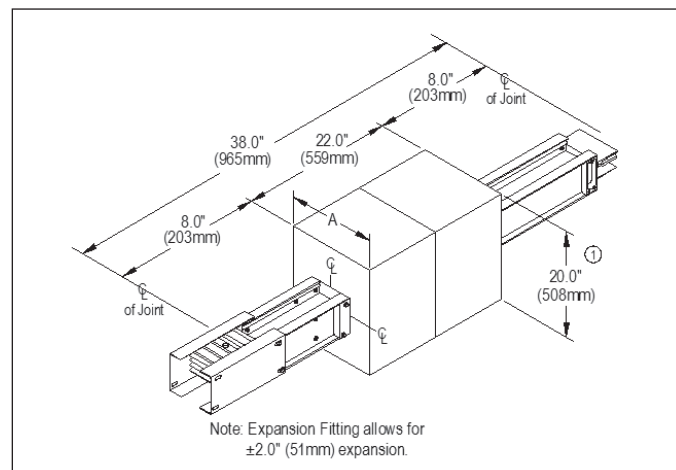
Expansion Fittings

Expansion fittings accommodate for expansion and contraction of a busway run and building movement. Expansion fittings typically are installed in the center of long busway runs, and at the beginning of riser runs to minimize stress on the lower most device or where a busway run crosses an expansion joint of a building.

Qty (1) Expansion Section should be used for every 200ft of continuous Busway run length and for each building expansion joint. The Busway run must be positioned accordingly to accommodate the Expansion Section(s).

Expansion Fitting

Suffix XPFT



① 24.0" (610mm) for isolated ground.

Sentron® Busway Systems – Reference Information

Tees

Tees are used to simplify directional and plane orientation changes in a busway system. Tees can make 90° bends left or right, and up and down along the busway run. All tees are supplied with two joint stack assemblies.

Flatwise Tees, Dimensions (standard/min.)		
Ampere Rating		Dimensions Inches (mm) "A", "B", "C"
AL	L-Rated	
225	—	12 (305)
400	—	12 (305)
600	—	12 (305)
800	400	12 (305)
1000	600	12 (305)
1200	800	12 (305)
1350	1000	12 (305)
1600	1200	18 (457)
2000	1350,1600	18 (457)
2500	2000	18 (457)
3000	2500	18 (457)
3200	2000	18 (457)
4000	3000,3200	24 (610)
CU	M-Rated	
225	—	12 (305)
400	—	12 (305)
600	—	12 (305)
800	400	12 (305)
1000	—	12 (305)
1200	600	12 (305)
1350	800	12 (305)
1600	1000	12 (305)
2000	1200,1350	12 (305)
—	1600	18 (457)
2500	2000	18 (457)
3000	—	18 (457)
3200	—	18 (457)
4000	2500,3000,3200	18 (457)
5000	4000	24 (610)

Edgewise Tees, Dimensions (standard/min.)		
Ampere Rating		Dimensions Inches (mm) "D"
AL	L-Rated	
225	—	13 (330)
400	—	13 (330)
600	—	13 (330)
800	400	13 (330)
1000	600	13 (330)
1200	800	18 (457)
1350	1000	18 (457)
1600	1200	18 (457)
2000	1350,1600	18 (457)
2500	2000	27 (686)
3000	2500	27 (686)
3200	2000	27 (686)
4000	3000,3200	29 (737)
CU	M-Rated	
225	—	13 (330)
400	—	13 (330)
600	—	13 (330)
800	400	13 (330)
1000	—	13 (330)
1200	600	13 (330)
1350	800	13 (330)
1600	1000	18 (457)
2000	1200,1350	18 (457)
—	1600	18 (457)
2500	2000	18 (457)
3000	—	27 (686)
3200	—	27 (686)
4000	2500,3000,3200	27 (686)
5000	4000	29 (737)

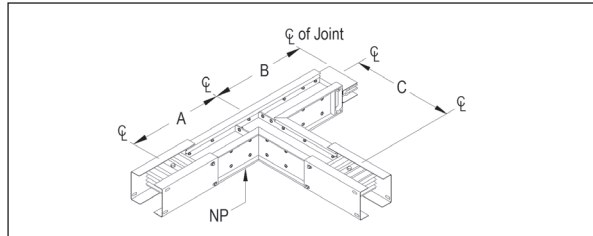
Ⓢ 12.0" (305mm) For Isolated Ground.

Flatwise Tees

Flatwise tees are used to create left and right branches.

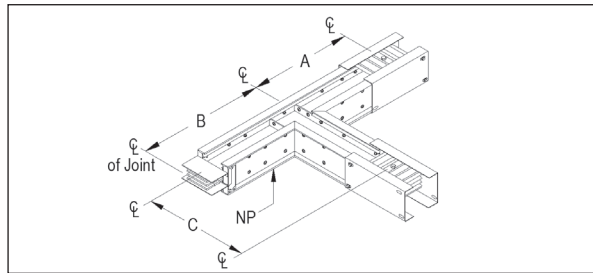
Flat Right

Suffix TEFR



Flat Left

Suffix TEFL

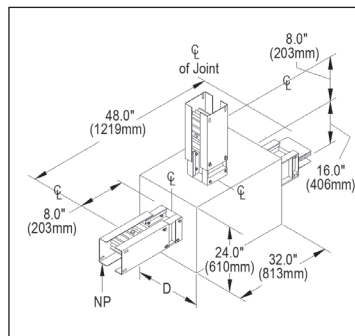


Edgewise Tees

Edgewise tees are used to create branches that stem up or down from the busway run.

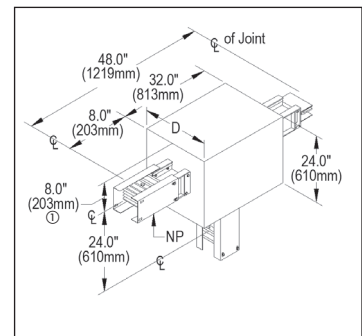
Edge Up

Suffix TEEU



Edge Down

Suffix TEED



Sentron® Busway Systems – Reference Information

Selection

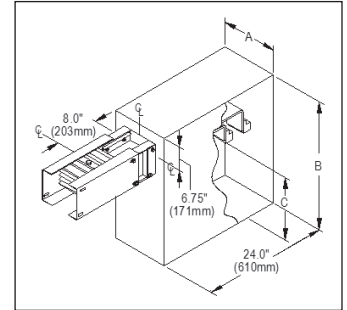
End Tap Boxes

End tap boxes are non-fusible devices used to connect cable and conduit to the end of a busway run or where busway runs connect without the need for over-current protection. End tap boxes may be installed at the end or beginning of a run. Vertical end tap boxes and horizontal end tap boxes can be installed in both horizontal and vertical applications. Extended end tap boxes are available if the application requires additional wire bending space. One joint stack assembly is shipped with each end tap box.

Standard and Extended Horizontal End Tap Boxes, Dimensions									
Ampere Rating		Dimensions Inches (mm)			Wire Bend Space		Cable Lugs Per Phase & Neutral		Ground Lugs ^①
		"A"	"B" Std.	"B" Ext.	"C" Std.	"C" Ext.	Qty.	Size	
AL	L-Rated								
225	—	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	1	①	1
400	—	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	1	②	1
600	—	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	2	②	1
800	400	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	3	②	1
1000	600	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	4	②	1
1200	800	18 (457)	32 (813)	37 (940)	20 (508)	24 (610)	4	②	1
1350	1000	18 (457)	33 (838)	37 (940)	20 (508)	24 (610)	4	②	1
1600	1200	18 (457)	33 (838)	37 (940)	20 (508)	24 (610)	6	②	2
2000	1350,1600	18 (457)	33 (838)	37 (940)	20 (508)	24 (610)	6	②	2
2500	2000	27 (686)	33 (838)	37 (940)	20 (508)	24 (610)	8	②	2
3000	2500	27 (686)	33 (838)	37 (940)	20 (508)	24 (610)	9	②	2
3200	2000	27 (686)	33 (838)	37 (940)	20 (508)	24 (610)	9	②	2
4000	3000,3200	29 (737)	33 (838)	37 (940)	20 (508)	24 (610)	12	②	3
CU	M-Rated								
225	—	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	1	①	1
400	—	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	1	②	1
600	—	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	2	②	1
800	400	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	3	②	1
1000	—	13 (330)	30 (762)	34 (863)	17 (432)	21 (533)	4	②	1
1200	600	13 (330)	33 (838)	37 (940)	20 (508)	24 (610)	4	②	1
1350	800	13 (330)	33 (838)	37 (940)	20 (508)	24 (610)	4	②	1
1600	1000	18 (457)	33 (838)	37 (940)	20 (508)	24 (610)	5	②	1
2000	1200,1350	18 (457)	33 (838)	37 (940)	20 (508)	24 (610)	6	②	2
—	1600	18 (457)	33 (838)	37 (940)	20 (508)	24 (610)	5	②	1
2500	2000	18 (457)	33 (838)	37 (940)	20 (508)	24 (610)	8	②	2
3000	—	27 (686)	33 (838)	37 (940)	20 (508)	24 (610)	9	②	2
3200	—	27 (686)	33 (838)	37 (940)	20 (508)	24 (610)	9	②	2
4000	2500,3000,3200	27 (686)	33 (838)	37 (940)	20 (508)	24 (610)	12	②	3
5000	4000	29 (737)	33 (838)	37 (940)	20 (508)	24 (610)	15	②	4

Horizontal End Tap Box

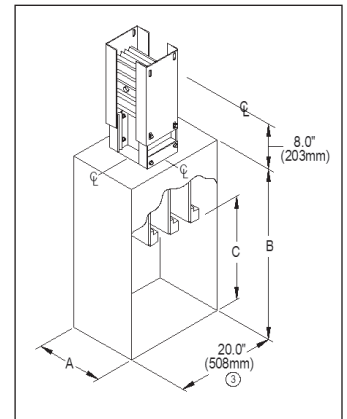
Suffix ETHS (Standard)
Suffix ETHX (Extended)



Standard and Extended Vertical End Tap Boxes, Dimensions									
Ampere Rating		Dimensions Inches (mm)			Wire Bend Space		Cable Lugs Per Phase & Neutral		Ground Lugs ^①
		"A"	"B" Std.	"B" Ext.	"C" Std.	"C" Ext.	Qty.	Size	
AL	L-Rated								
225	—	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	1	①	1
400	—	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	1	②	1
600	—	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	2	②	1
800	400	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	3	②	1
1000	600	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	4	②	1
1200	800	18 (457)	32 (813)	32 (813)	20 (508)	24 (610)	4	②	1
1350	1000	18 (457)	28 (711)	32 (813)	20 (508)	24 (610)	4	②	1
1600	1200	18 (457)	28 (711)	32 (813)	20 (508)	24 (610)	6	②	2
2000	1350,1600	18 (457)	28 (711)	32 (813)	20 (508)	24 (610)	6	②	2
2500	2000	27 (686)	28 (711)	32 (813)	20 (508)	24 (610)	8	②	2
3000	2500	27 (686)	28 (711)	32 (813)	20 (508)	24 (610)	9	②	2
3200	2000	29 (737)	28 (711)	32 (813)	20 (508)	24 (610)	9	②	2
4000	3000,3200	29 (737)	28 (711)	32 (813)	20 (508)	24 (610)	12	②	3
CU	M-Rated								
225	—	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	1	①	1
400	—	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	1	②	1
600	—	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	2	②	1
800	400	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	3	②	1
1000	—	13 (330)	25 (635)	29 (737)	17 (432)	21 (533)	4	②	1
1200	600	13 (330)	28 (711)	32 (813)	20 (508)	24 (610)	4	②	1
1350	800	13 (330)	28 (711)	32 (813)	20 (508)	24 (610)	4	②	1
1600	1000	18 (457)	28 (711)	32 (813)	20 (508)	24 (610)	5	②	1
2000	1200,1350	18 (457)	28 (711)	32 (813)	20 (508)	24 (610)	6	②	2
—	1600	18 (457)	28 (711)	32 (813)	20 (508)	24 (610)	5	②	1
2500	2000	18 (457)	28 (711)	32 (813)	20 (508)	24 (610)	8	②	2
3000	—	27 (686)	28 (711)	32 (813)	20 (508)	24 (610)	9	②	2
3200	—	27 (686)	28 (711)	32 (813)	20 (508)	24 (610)	9	②	2
4000	2500,3000,3200	27 (686)	28 (711)	32 (813)	20 (508)	24 (610)	12	②	3
5000	4000	29 (737)	28 (711)	32 (813)	20 (508)	24 (610)	15	②	4

Vertical End Tap Box

Suffix ETVS (Standard)
Suffix ETVX (Extended)



① #6 AWG -350 kcmil, Cu/Al.

② #4 AWG -600 kcmil, Cu/Al.

③ 24.0" (610mm) for isolated ground.

Sentron® Busway Systems – Reference Information

Reducers and Phase Rotation Fittings

Selection

Fused Reducers, Dimensions (standard/min.)		Dimensions Inches (mm) "A"
Ampere Rating		
AL	L-Rated	
225	—	11.4 (289)
400	—	11.4 (289)
600	—	11.4 (289)
800	400	11.4 (289)
1000	600	11.4 (289)
1200	800	12.5 (318)
1350	1000	13.5 (343)
1600	1200	14.6 (372)
2000	1350,1600	16.9 (429)
2500	2000	19.6 (498)
3000	2500	21.3 (541)
3200	2000	22.9 (582)
4000	3000,3200	31.5 (800)
CU	M-Rated	
225	—	10.4 (264)
400	—	10.4 (264)
600	—	10.4 (264)
800	400	10.4 (264)
1000	—	10.4 (264)
1200	600	11.0 (280)
1350	800	11.6 (296)
1600	1000	12.6 (321)
2000	1200,1350	14.1 (359)
—	1600	14.6 (372)
2500	2000	16.6 (423)
3000	—	17.9 (455)
3200	—	18.9 (480)
4000	2500,3000,3200	20.9 (531)
5000	4000	31.5 (800)

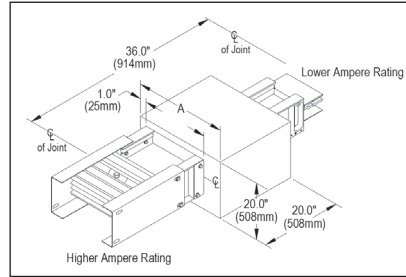
Phase Rotation Fittings, Dimensions (standard/min.)		Dimensions Inches (mm) "A"
Ampere Rating		
AL	L-Rated	
225	—	7.9 (200)
400	—	7.9 (200)
600	—	7.9 (200)
800	400	8.5 (216)
1000	600	9.4 (239)
1200	800	10.5 (267)
1350	1000	11.5 (293)
1600	1200	12.6 (321)
2000	1350,1600	14.9 (376)
2500	2000	17.6 (447)
3000	2500	19.8 (503)
3200	2000	21.3 (541)
4000	3000,3200	24.3 (617)
CU	M-Rated	
225	—	7.9 (200)
400	—	7.9 (200)
600	—	7.9 (200)
800	400	7.9 (200)
1000	—	8.4 (213)
1200	600	9.0 (229)
1350	800	9.6 (245)
1600	1000	10.6 (270)
2000	1200,1350	12.1 (372)
—	1600	12.6 (321)
2500	2000	14.6 (200)
3000	—	15.8 (402)
3200	—	17.3 (439)
4000	2500,3000,3200	19.3 (490)
5000	4000	23.3 (592)

Fused Reducers

The National Electric Code requires over current protection when busway systems are reduced in ampacity. A fused reducer is used to reduce the allowable ampere rating in those sections of the busway that do not require a higher rating (i.e. at branch circuit junctures).

Fused Reducer

Suffix RFRF



Non-Fused Reducers

Non-fused reducers are used in conjunction with the following exception to the Fused Reducer in the National Electric Code: "For industrial establishments only, omission of over current protection shall be permitted at points where busways are reduced in ampacity, provided that the length of the busway having the smaller ampacity does not exceed 50 ft. and has an ampacity of at least equal to one-third the rating or setting of the over current device next back on the line, and provided that such busway is free from contact with combustible material." Special joint stack connections are provided for non-fused reducer connections. Consult factory for specific design guidelines.

Phase-Rotation Fittings

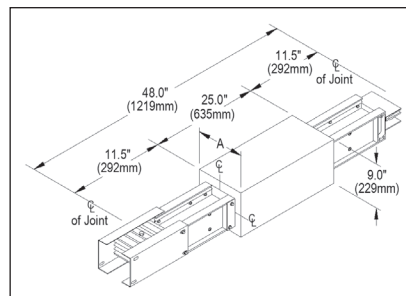
Phase-rotation fittings can be used when the application requires a phase rotation in the power supply. Phase rotation fittings can be ordered for "phase and ground", "phase only" and "ground only" rotations.

Phase Rotation Fitting

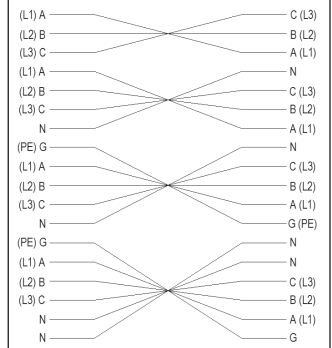
Suffix TRPG, Phase and Ground

TRPO, Phase Only

TRGO, Ground Only



Phase Rotation Examples



Sentron® Busway Systems – Reference Information

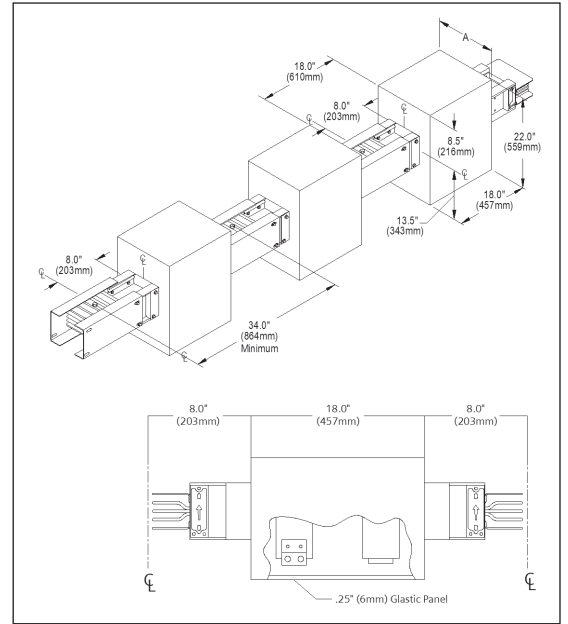
Service Heads

Selection

Service Heads are used to connect busway to a service entrance. In the Sentron Busway line, 3 single-phase service heads and 3-phase service head connections are available. The standard service entrance connection is the 3-phase service head which consists of one service head for all three phases. 3 single-phase service heads consist of three heads – one for each phase and may be used to meet the requirements of certain applications. To ensure ease of installation of incoming cables, both types of Sentron service heads are constructed so that the lugs face the Glastic bottom of the box. The Glastic bottom provides insulation and protection to the incoming cables.

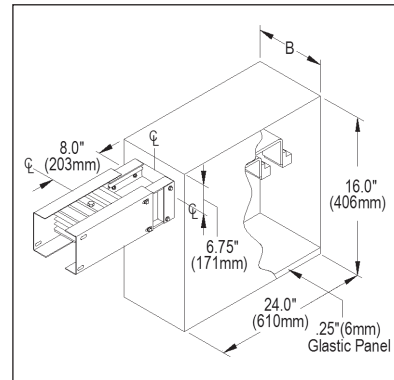
Single-Phase Service Heads, Dimensions (standard/min.)						
Ampere Rating		Dimensions Inches (mm)		Cable Lugs per Phase and Neutral		Ground Lugs ^①
		Single-Phase "A"		Qty.	Size	
AL L-Rated						
225		13 (330)		1	①	1
400	225	13 (330)		1	②	1
600	—	13 (330)		2	②	1
800	400	13 (330)		3	②	1
1000	600	13 (330)		4	②	1
1200	800	18 (457)		4	②	1
1350	1000	18 (457)		4	②	1
1600	1200	18 (457)		5	②	1
2000	1350,1600	20 (508)		6	②	2
2500	2000	27 (686)		8	②	2
3000	2500	29 (737)		9	②	2
3200	2000	29 (737)		9	②	2
4000	3000,3200	29 (737)		12	②	3
CU M-Rated						
225		13 (330)		1	①	1
400		13 (330)		1	②	1
600		13 (330)		2	②	1
800	400	13 (330)		3	②	1
1000	—	13 (330)		4	②	1
1200	600	13 (330)		4	②	1
1350	800	13 (330)		4	②	1
1600	1000	18 (457)		5	②	1
2000	1200,1350	20 (508)		6	②	2
—	1600	18 (457)		5	②	1
2500	2000	20 (508)		8	②	2
3000	—	27 (686)		9	②	2
3200	—	27 (686)		9	②	2
4000	2500,3000,3200	27 (686)		12	②	3
5000	4000	29 (737)		15	②	4

Three Single-Phase Service Heads Suffix V1TX



Three-Phase Service Heads, Dimensions (standard/min.)						
Ampere Rating		Dimensions Inches (mm)		Cable Lugs per Phase and Neutral		Ground Lugs ^①
		Three-Phase "B"		Qty.	Size	
AL L-Rated						
225		13 (330)		1	①	1
400	225	13 (330)		1	②	1
600	—	13 (330)		2	②	1
800	400	13 (330)		3	②	1
1000	600	13 (330)		4	②	1
1200	800	18 (457)		4	②	1
1350	1000	18 (457)		4	②	1
1600	1200	18 (457)		5	②	1
2000	1350,1600	18 (457)		6	②	2
2500	2000	27 (686)		8	②	2
3000	2500	27 (686)		9	②	2
3200	2000	27 (686)		9	②	2
4000	3000,3200	29 (737)		12	②	3
CU M-Rated						
225		13 (330)		1	①	1
400		13 (330)		1	②	1
600		13 (330)		2	②	1
800	400	13 (330)		3	②	1
1000	—	13 (330)		4	②	1
1200	600	13 (330)		4	②	1
1350	800	13 (330)		4	②	1
1600	1000	18 (457)		5	②	1
2000	1200,1350	18 (457)		6	②	2
—	1600	18 (457)		5	②	1
2500	2000	18 (457)		8	②	2
3000	—	27 (686)		9	②	2
3200	—	27 (686)		9	②	2
4000	2500,3000,3200	27 (686)		12	②	3
5000	4000	29 (737)		15	②	4

Three-Phase Service Head Suffix V3TX



① #6 AWG - 350 kcmil, Cu / Al.

② #4 AWG - 600 kcmil, Cu / Al.

Sentron® Busway Systems – Reference Information

Hangers

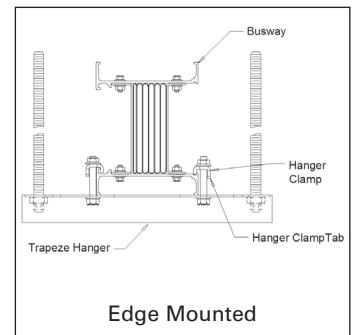
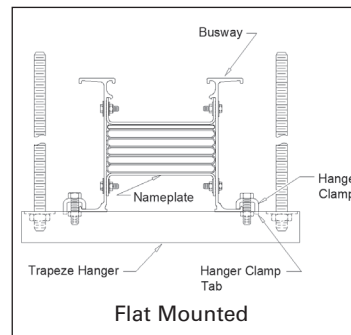
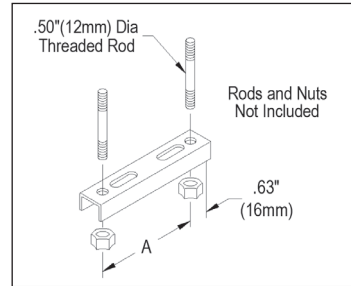
Selection

Trapeze Hanger, Dimensions and Catalogue Numbers			
Ampere Rating		"A" Dimensions Inches (mm)	Flat Mounted Catalogue Number ^①
AL	L-Rated		
225	—	10.0 (254)	SXTH1
400	—	10.0 (254)	SXTH1
600	—	10.0 (254)	SXTH1
800	400	10.0 (254)	SXTH1
1000	600	10.0 (254)	SXTH1
1200	800	10.0 (254)	SXTH1
1350	1000	13.5 (343)	SXTH2
1600	1200	13.5 (343)	SXTH2
2000	1350,1600	13.5 (343)	SXTH2
2500	2000	13.5 (343)	SXTH3
3000	2500	13.5 (343)	SXTH3
3200	2000	13.5 (343)	SXTH3
4000	3000,3200	23.0 (584)	SXTH4
CU	M-Rated		
225	—	10.0 (254)	SXTH1
400	—	10.0 (254)	SXTH1
600	—	10.0 (254)	SXTH1
800	400	10.0 (254)	SXTH1
1000	—	10.0 (254)	SXTH1
1200	600	10.0 (254)	SXTH1
1350	800	10.0 (254)	SXTH1
1600	1000	10.0 (254)	SXTH1
2000	1200,1350	13.5 (343)	SXTH2
—	1600	13.5 (343)	SXTH2
2500	2000	13.5 (343)	SXTH2
3000	—	18.5 (470)	SXTH3
3200	—	18.5 (470)	SXTH3
4000	2500,3000,3200	18.5 (470)	SXTH3
5000	4000	23.0 (584)	SXTH4

① Use SXTH1 for Edge Mounted.

Trapeze Hanger

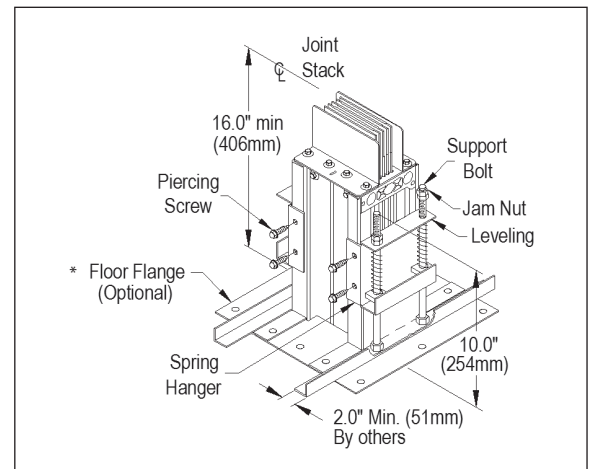
A complete offering of hangers is available to support Sentron Busway in both vertical and horizontal applications. Standard trapeze hangers support Sentron Busway in horizontal applications on 10 ft. (3.05m) centers. Additional hangers may be used if structural requirements mandate their use. The contractor must supply drop rods to complete assembly for trapeze hangers.



Spring Hanger, Catalogue Numbers						
Ampere Rating		Catalogue Assembly floor to ceiling height				
		10ft.	12 ft.	14 ft.	16 ft.	18 ft.
AL	L-Rated					
225	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
400	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
600	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
800	400	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
1000	600	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
1200	800	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
1350	1000	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
1600	1200	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
2000	1350,1600	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
2500	2000	SXSH4	SXSH4	SXSH4	SXSH6	SXSH6
3000	2500	SXSH4	SXSH6	SXSH6	SXSH6	SXSH6
3200	2000	SXSH4	SXSH6	SXSH6	SXSH6	SXSH6
4000	3000,3200	SXSH4	SXSH6	SXSH6	SXSH6	SXSH8
CU	M-Rated					
225	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
400	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
600	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
800	400	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
1000	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
1200	600	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
1350	800	SXSH4	SXSH4	SXSH4	SXSH6	SXSH6
1600	1000	SXSH4	SXSH4	SXSH6	SXSH6	SXSH6
2000	1200,1350	SXSH6	SXSH6	SXSH6	SXSH6	SXSH8
—	1600	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
2500	2000	SXSH2	SXSH6	SXSH8	SXSH8	SXSH8
3000	—	SXSH6	SXSH8	SXSH8	SXSH10	SXSH10
3200	—	SXSH6	SXSH8	SXSH8	SXSH10	SXSH12
4000	2500,3000,3200	SXSH6	SXSH8	SXSH10	SXSH12	SXSH12
5000	4000	SXSH6	SXSH10	SXSH12	SXSH14	SXSH14

Spring Hanger

Spring hangers and floor support hangers must be used to provide secure mounting of the busway run in vertical applications. Spring hangers support the weight of the busway on each floor and also compensate for minimal building movement and thermal expansion. Maximum distance between spring hangers may not exceed 16 ft. (4.88m). When ordering 18 ft. (5.49m) floor to ceiling height assemblies, intermediate support hangers are necessary.



*Note: Flanges do not offer support to the busway. Flanges provide a means of covering the hole created in the existing structure.

Sentron® Busway Systems – Reference Information

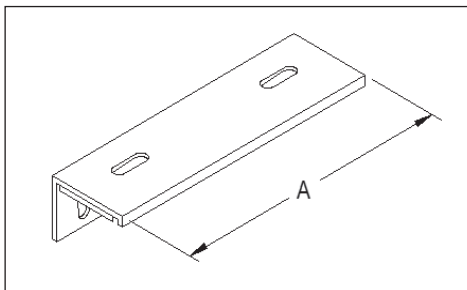
Hangers

Selection

Structural Steel Hanger, Dimensions and Catalogue Numbers			
Ampere Rating		"A" Dimensions Inches (mm)	Catalogue Number
AL	L-Rated		
225	—	10.0 (254)	SXSS1
400	—	10.0 (254)	SXSS1
600	—	10.0 (254)	SXSS1
800	400	10.0 (254)	SXSS1
1000	600	10.0 (254)	SXSS1
1200	800	10.0 (254)	SXSS1
1350	1000	13.5 (343)	SXSS2
1600	1200	13.5 (343)	SXSS2
2000	1350,1600	13.5 (343)	SXSS2
2500	2000	18.5 (470)	SXSS3
3000	2500	18.5 (470)	SXSS3
3200	2000	18.5 (470)	SXSS3
4000	3000,3200	23.0 (584)	SXSS4
CU	M-Rated		
225	—	10.0 (254)	SXSS1
400	—	10.0 (254)	SXSS1
600	—	10.0 (254)	SXSS1
800	400	10.0 (254)	SXSS1
1000	—	10.0 (254)	SXSS1
1200	600	10.0 (254)	SXSS1
1350	800	10.0 (254)	SXSS1
1600	1000	10.0 (254)	SXSS1
2000	1200,1350	13.5 (343)	SXSS2
—	1600	13.5 (343)	SXSS2
2500	2000	13.5 (343)	SXSS2
3000	—	13.5 (343)	SXSS2
3200	—	13.5 (343)	SXSS2
4000	2500,3000,3200	13.5 (343)	SXSS2
5000	4000	23.0 (584)	SXSS4

Structural Steel Hanger

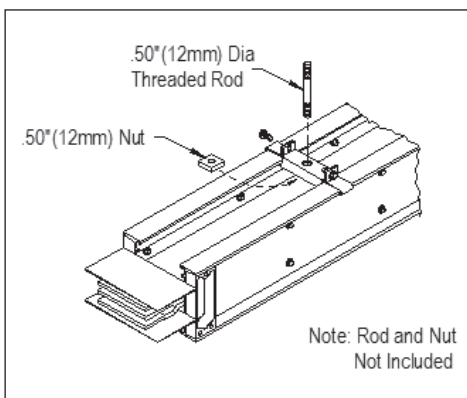
A complete offering of hangers is available to support Sentron Busway in both vertical and horizontal applications. Structural Steel hangers support Sentron Busway in horizontal applications on 10 ft. (3.05m) centers. Additional hangers may be used if structural requirements mandate their use.



Single Drop Rod Hanger, Catalogue Numbers		
Ampere Rating		Catalogue Number
AL	L-Rated	
225	—	SXDRA1
400	—	SXDRA1
600	—	SXDRA1
800	400	SXDRA2
1000	600	SXDRA3
1200	800	SXDRA4
1350	1000	SXDRA5
1600	1200	SXDRA6
2000	1350,1600	SXDRA7
2500	2000	—
3000	2500	—
3200	2000	—
4000	3000,3200	—
CU	M-Rated	
225	—	SXDRC1
400	—	SXDRC1
600	—	SXDRC1
800	400	SXDRC1
1000	—	SXDRC2
1200	600	SXDRC3
1350	800	SXDRC4
1600	1000	SXDRC5
2000	1200,1350	SXDRC6
—	1600	SXDRC6
2500	2000	SXDRC7
3000	—	—
3200	—	—
4000	2500,3000,3200	—
5000	4000	—

Single Drop Rod Hanger

A complete offering of hangers is available to support Sentron Busway in both vertical and horizontal applications. Single drop rod hangers support Sentron Busway in horizontal applications on 10 ft. (3.05m) centers. Additional hangers may be used if structural requirements mandate their use. The contractor must supply drop rods to complete assembly for single drop rod hangers.



Note: Drop rod hangers can only be used when phase arrows are pointing up.

Sentron® Busway Systems – Reference Information

Hangers and End Closers

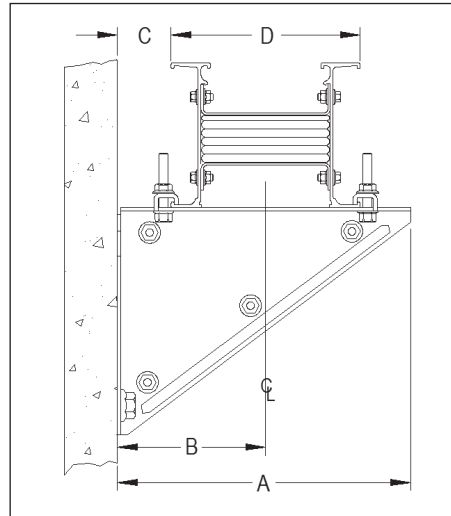
Selection

Wall Mounted Hanger, Dimensions and Catalogue Numbers					
Ampere Rating		Dimensions Inches (mm)			Catalogue Number
		"A"	"B"	"C"	
AL	L-Rated				
225	—	12.3 (311)	6.1 (156)	4.2 (107)	SXWH1
400	—	12.3 (311)	6.1 (156)	4.2 (107)	SXWH1
600	—	12.3 (311)	6.1 (156)	4.2 (107)	SXWH1
800	400	12.3 (311)	6.1 (156)	3.8 (97)	SXWH1
1000	600	12.3 (311)	6.1 (156)	3.8 (97)	SXWH1
1200	800	12.3 (311)	6.1 (156)	2.8 (72)	SXWH1
1350	1000	16.3 (413)	8.1 (206)	4.4 (111)	SXWH2
1600	1200	16.3 (413)	8.1 (206)	3.9 (98)	SXWH2
2000	1350,1600	16.3 (413)	8.1 (206)	2.8 (70)	SXWH2
2500	2000	20.8 (527)	10.4 (264)	3.6 (92)	SXWH3
3000	2500	20.8 (527)	10.4 (264)	2.5 (64)	SXWH3
3200	2000	20.8 (527)	10.4 (264)	1.8 (46)	SXWH3
4000	3000,3200	25.3 (641)	12.6 (321)	2.5 (64)	SXWH4
CU	M-Rated				
225	—	12.3 (311)	6.1 (156)	4.2 (107)	SXWH1
400	—	12.3 (311)	6.1 (156)	4.2 (107)	SXWH1
600	—	12.3 (311)	6.1 (156)	4.2 (107)	SXWH1
800	400	12.3 (311)	6.1 (156)	3.8 (97)	SXWH1
1000	—	12.3 (311)	6.1 (156)	3.8 (97)	SXWH1
1200	600	12.3 (311)	6.1 (156)	2.8 (72)	SXWH1
1350	800	12.3 (311)	6.1 (156)	2.8 (72)	SXWH1
1600	1000	12.3 (311)	6.1 (156)	2.8 (72)	SXWH1
2000	1200,1350	16.3 (413)	8.1 (206)	4.4 (111)	SXWH2
—	1600	16.3 (413)	8.1 (206)	3.9 (98)	SXWH2
2500	2000	16.3 (413)	8.1 (206)	2.8 (70)	SXWH2
3000	—	20.8 (527)	10.4 (264)	3.6 (92)	SXWH3
3200	—	20.8 (527)	10.4 (264)	2.5 (64)	SXWH3
4000	2500,3000,3200	20.8 (527)	10.4 (264)	1.8 (46)	SXWH3
5000	4000	25.3 (641)	12.6 (321)	2.5 (64)	SXWH4

Wall Mounted Hanger

Wall Mounted Hangers are used for horizontal applications close to a wall. The busway can be mounted either edgewise or flatwise to the wall.

Wall Mounted Hanger ensures the minimum clearance between the wall and the busway run.



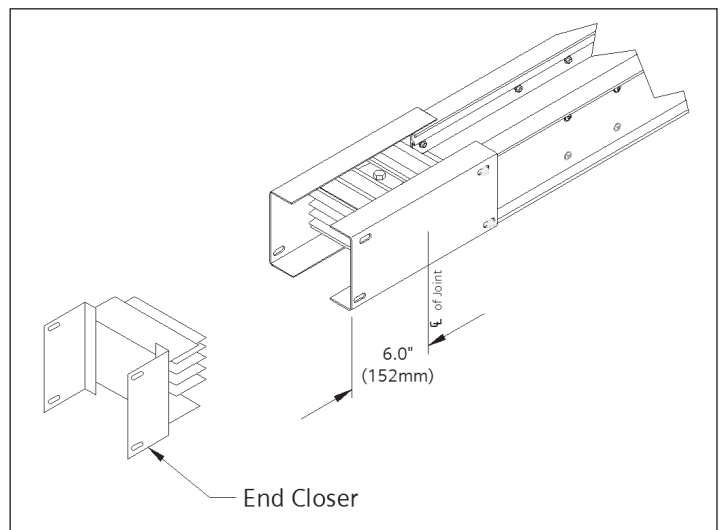
End Closers

End closers safely terminate a busway run and protect the bus bar ends. End closers may be removed easily in order to extend a busway run. End closers are shipped with Glastic insulation pieces, however, joint stacks and inspection covers are not included.

End Closers

(Joint stack and covers not included)

Suffix ECLS



Sentron® Busway Systems – Reference Information

Roof and Wall Flanges

Selection

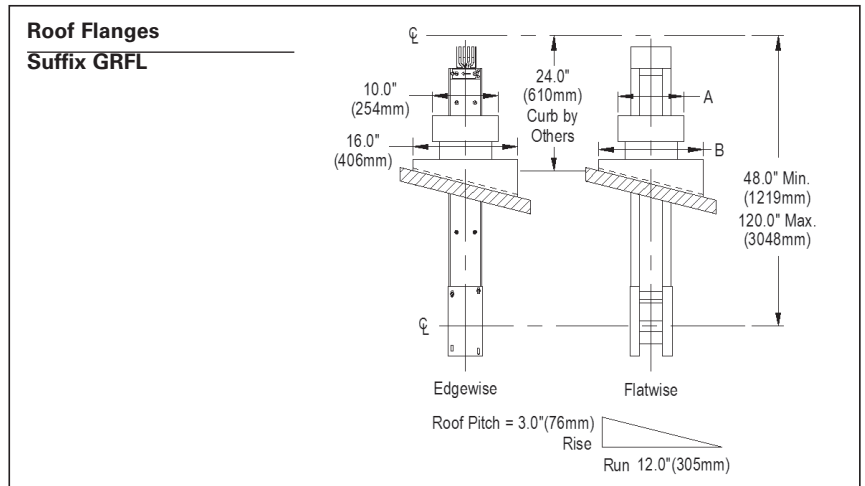
Roof, wall and floor flanges are available for Sentron Busway. When the busway run passes through a roof, wall or ceiling, a flange should be used. Flanges do not offer support to the busway. Flanges provide a means of covering the hole created

in the existing structure. Additional sealant may be required to meet fire codes and all other local requirements. No caulking or gasketing is provided with Sentron flanges.

Roof Flanges, Dimensions			
Ampere Rating		Dimensions Inches (mm)	
		"A"	"B"
AL	L-Rated		
225	—	12 (305)	18 (457)
400	—	12 (305)	18 (457)
600	—	12 (305)	18 (457)
800	400	12 (305)	18 (457)
1000	600	12 (305)	18 (457)
1200	800	12 (305)	18 (457)
1350	1000	16 (406)	22 (559)
1600	1200	16 (406)	22 (559)
2000	1350,1600	16 (406)	22 (559)
2500	2000	20.5 (521)	22 (559)
3000	2500	20.5 (521)	26.5 (673)
3200	2000	20.5 (521)	26.5 (673)
4000	3000,3200	25 (635)	31 (787)
CU	M-Rated		
225	—	12 (305)	18 (457)
400	—	12 (305)	18 (457)
600	—	12 (305)	18 (457)
800	400	12 (305)	18 (457)
1000	—	12 (305)	18 (457)
1200	600	12 (305)	18 (457)
1350	800	12 (305)	18 (457)
1600	1000	12 (305)	18 (457)
2000	1200,1350	16 (406)	22 (559)
—	1600	16 (406)	22 (559)
2500	2000	16 (406)	22 (559)
3000	—	20.5 (521)	26.5 (673)
3200	—	20.5 (521)	26.5 (673)
4000	2500,3000,3200	20.5 (521)	26.5 (673)
5000	4000	25 (635)	31 (787)

Roof Flanges

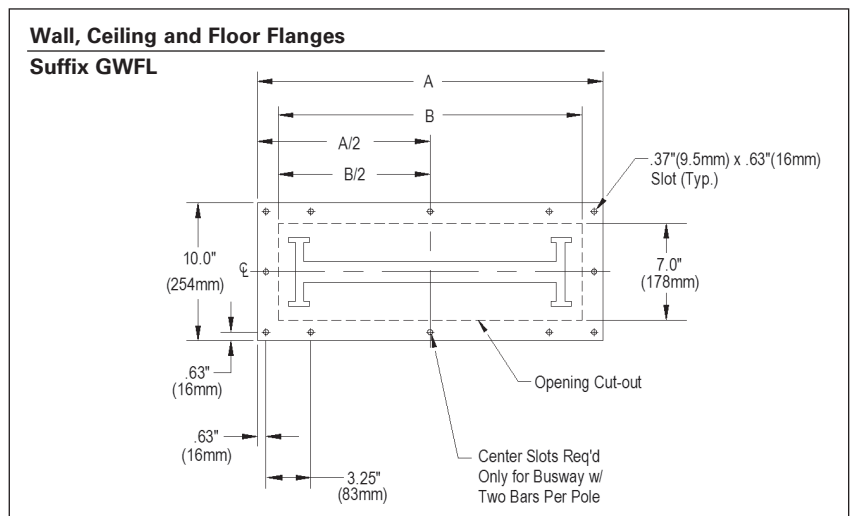
Roof flanges are available for Sentron Busway. When the busway run passes through a roof, a flange should be used. Flanges do not offer support to the busway. Flanges provide a means of covering the hole created in the existing structure. Additional sealant may be required to meet fire codes and all other local requirements. No caulking or gasketing is provided with Sentron flanges. Roof flanges provide a watertight seal for use with NEMA 3R and IP66 rated busway. Roof pitch must be indicated on drawings when ordering roof flanges.



Wall, Ceiling and Floor Flanges, Dimensions			
Ampere Rating		Dimensions Inches (mm)	
		"A"	"B"
AL	L-Rated		
225	—	11 (279)	7 (178)
400	—	11 (279)	7 (178)
600	—	11 (279)	7 (178)
800	400	11 (279)	7 (178)
1000	600	12 (305)	8 (203)
1200	800	13 (330)	9 (229)
1350	1000	14 (356)	10 (254)
1600	1200	15 (381)	11 (279)
2000	1350,1600	17 (432)	13 (330)
2500	2000	20 (508)	16 (406)
3000	2500	22 (559)	18 (457)
3200	2000	24 (610)	20 (508)
4000	3000,3200	26 (660)	22 (559)
CU	M-Rated		
225	—	10 (254)	6 (152)
400	—	10 (254)	6 (152)
600	—	10 (254)	6 (152)
800	400	10 (254)	6 (152)
1000	—	11 (279)	7 (178)
1200	600	12 (305)	8 (203)
1350	800	12 (305)	8 (203)
1600	1000	13 (330)	9 (229)
2000	1200,1350	15 (381)	11 (279)
—	1600	15 (381)	11 (279)
2500	2000	17 (432)	13 (330)
3000	—	18 (457)	14 (356)
3200	—	19 (483)	15 (381)
4000	2500,3000,3200	21 (533)	17 (432)
5000	4000	26 (660)	22 (559)

Wall, Ceiling and Floor Flanges

Wall/Floor flanges are available for Sentron Busway. When the busway run passes through a wall or ceiling, a flange should be used. Flanges do not offer support to the busway. Flanges provide a means of covering the hole created in the existing structure. Additional sealant may be required to meet fire codes and all other local requirements. No caulking or gasketing is provided with Sentron flanges.



Sentron® Busway Systems – Reference Information

Siemens Sentron Busway Quick Reference

General

Critical Dimensions:

Busway that passes through a wall, ceiling or floor:

- centerline of a joint to the wall, ceiling or floor = 7 in. min.
- centerline of a joint (*above a floor support*) to a floor = 16 in. min.
- joints cannot be positioned inside a wall, ceiling or floor (*joints must be accessible for maintenance*)

Feeder Busway clearances:

- from the top of the busway to a ceiling/floor/wall or other busway = 6 in. min.
- from the side of the busway to a ceiling/floor/wall or other busway = 4 in. min

Plug-in Busway clearances:

- plug-In busway clearances depend on the configuration of bus plugs (*see bus plug clearance charts in the Sentron Selection and Application Guide*)
- otherwise, clearances for feeder busway apply
- note orientation of the operating handle and provide clearance for access & operation

Feeder Busway length:

- minimum length = 14.38 in.
- maximum length = 10 ft.

Plug-In & Riser length:

- available only in 4, 6, 8 and 10 ft. lengths

Flat Elbow section:

- maximum leg length = 4 ft.
- minimum leg length: Varies according to amperage and bus bar material

Edge Elbow section:

- maximum length = 4 ft.
- minimum leg length = 10 in.

Combination and Offset Elbows:

- maximum leg lengths = 4 ft.
- minimum leg lengths: varies according to amperage and bus bar material (*See Sentron Selection and Application Guide*)

Elbow - Stub Combinations:

- maximum leg length = 4 ft.
- minimum leg length = 2.50 in. + (case size x .5)

Critical Details:

- busway DRAWINGS must include all relevant dimensions
- CENTERLINE dimensions are expected (*please note any dimensions that are not center line dimensions*)
- WALLS and FLOORS must be located (*wall & floor thickness must be included*)
- locate the **FRONT of all switchboards** and provide the phasing of any existing boards (*advise if any PADs are located under boards*)
- when using RISER plug-in busway please note the desired direction of the load side of bus plugs (*G,A,B,C,N from left to right will position the load side to the bottom and "UP is On" handle operation*)
- TRANSFORMER THROAT connections require complete details.
- Horizontal plug-in busway must be oriented with the A phase on top (*bolt head on top*).
- In-Line Disconnect CUBICLES are engineered to order. The **FRONT** of the cubicle and **Breaker** information must be specified.
- Panels - panel type and size / if a certain panel or breaker height is required (those dimensions)
- Curb height

Intermediate Hangers

- Add qty (1) Intermediate Hanger for floor to ceiling height greater than 16ft. Consult factory if greater than 32 ft.

Expansion Sections:

- Qty (1) Expansion Section should be used for every 200ft of continuous Busway run length and for each building expansion joint. The Busway run must be positioned accordingly to accommodate the Expansion Section(s).

Outdoor Busway:

- route busway to minimize outdoor busway run length
- call factory before quoting outdoor busway runs over 50 ft.
- avoid installing busway near exhaust pipes that may generate steam or caustic vapors

Busway Power Distribution

BD® Plug-In (225 — 1600 Ampere)

Selection

225–1600 Amperes

Ampere Rating	Plug In ^① 10'-0" Straight Length Catalogue Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.	Ground Bus Add Suffix	90° Elbow Prefix ^{②③} Catalogue Number	Switchboard Connection ^④ Prefix	Building Expansion Fitting Catalogue Number
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Aluminum

3 Phase, 3 Wire

600V or Less

225	ABD302	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	9	GK	ALD302	FEA302	EPA302
400	ABD304	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	10		ALD304	FEA304	EPA304
600	ABD306	6 ⁵ / ₁₆ x 8 ⁷ / ₁₆	13	GK	ALD306	FEA306	EPA306
800	ABD308	6 ⁵ / ₁₆ x 8 ⁷ / ₁₆	14		ALD308	FEA308	EPA308
1000	ABD310	12 ¹ / ₂ x 8 ⁷ / ₁₆	22	GK	ALD310	FEA310	EPA310
1200	ABD312	12 ¹ / ₂ x 8 ⁷ / ₁₆	28		ALD312	FEA312	EPA312

3 Phase, 4 Wire — Full Capacity Neutral

277/480V

225	ABD4024	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	10 ¹ / ₂	GK	ALD4024	FEA4024	EPA4024
400	ABD4044	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	12		ALD4044	FEA4044	EPA4044
600	ABD4064	6 ⁵ / ₁₆ x 8 ⁷ / ₁₆	15 ¹ / ₂	GK	ALD4064	FEA4064	EPA4064
800	ABD4084	8 ⁵ / ₁₆ x 8 ⁷ / ₁₆	27		ALD4084	FEA4084	EPA4084
1000	ABD4104	12 ¹ / ₂ x 8 ⁷ / ₁₆	31	GK	ALD4104	FEA4104	EPA4104
1200	ABD4124	12 ¹ / ₂ x 8 ⁷ / ₁₆	38		ALD4124	FEA4124	EPA4124

Copper

3 Phase, 3 Wire

600V or Less

225	BDP302	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	9	GK	LDP302	FEP302	EJP302
400	BDP304	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	12 ¹ / ₂		LDP304	FEP304	EJP304
600	BDP306	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	13 ¹ / ₂	GK	LDP306	FEP306	EJP306
800	BDP308	6 ⁵ / ₁₆ x 8 ⁷ / ₁₆	18 ¹ / ₂		LDP308	FEP308	EJP308
1000	BDP310	6 ⁵ / ₁₆ x 8 ⁷ / ₁₆	22	GK	LDP310	FEP310	EJP310
1350	BDP313	12 ¹ / ₂ x 8 ⁷ / ₁₆	28		LDP313	FEP313	EJP313
1600	BDP316	12 ¹ / ₂ x 8 ⁷ / ₁₆	29	GK	LDP316	FEP316	EJP316

3 Phase, 4 Wire — Full Capacity Neutral

277/480V

225	BDP4024	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	12	GK	LDP4024	FEP4024	EJP4024
400	BDP4044	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	14 ¹ / ₂		LDP4044	FEP4044	EJP4044
600	BDP4064	4 ⁵ / ₁₆ x 8 ⁷ / ₁₆	15 ¹ / ₂	GK	LDP4064	FEP4064	EJP4064
800	BDP4084	8 ⁵ / ₁₆ x 8 ⁷ / ₁₆	28		LDP4084	FEP4084	EJP4084
1000	BDP4104	8 ⁵ / ₁₆ x 8 ⁷ / ₁₆	32	GK	LDP4104	FEP4104	EJP4104

"M" Rating / Standard Rating Conversion Table

1000/A Square Inch "M" Rating	Standard 55°C Rating BDP
225	—
400	600
600	800
800	800
1000	1000
1200	—
1350	1350
1600	1600
2000	—
2500	—
3000	—
4000	—

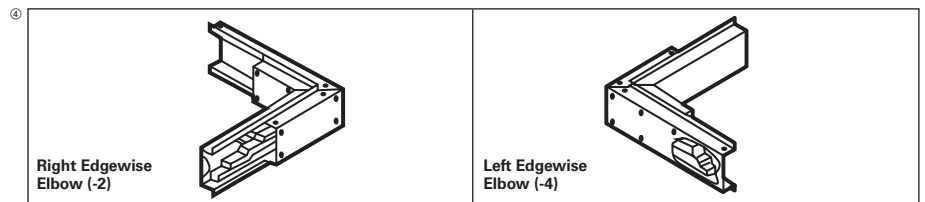
For inches / millimeters conversion, see page 583.

① Consult local sales office for five foot length.

② List prices are for standard construction, for higher short circuit ratings add an "H" after the "D" or "P" (ABDH302 or BDPH302) and add 20% to the list price. Consult sales office for ratings.

③ "GK" is an internal ground bus. For any other ground configuration, consult local sales office. List price is per foot. Please use following footage for fittings:

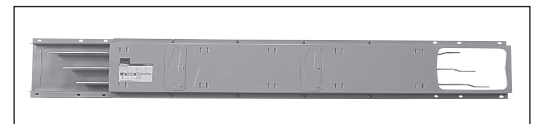
- Elbow - 3 foot
- SWB - 1'
- End Cable Tap Box - 1'
- Center Cable Tap Box - 10'
- Building Expansion - 10'



Suffix	Description	Appropriate suffix must be added to Elbow Catalogue Number to order.
-1	Right Flatwise	
-2	Right Edgewise	
-3	Left Flatwise	
-4	Left Edgewise	

⑤

⑥ Switchboard stub includes flange to cover cutout in top of indoor switchboard and 6" of bus inside switchboard. Connecting hardware supplied by switchboard manufacturer.



Busway Power Distribution

BD® Plug-In (225 — 1600 Ampere)

Selection

225–1600 Amperes

Cable Tap Box		End Closure	Hangers®
End® Catalogue Number	Center® Catalogue Number	Catalogue Number	Catalogue Number

Aluminum

3 Phase, 3 Wire

600V or Less

EBA302	CBA302	ECP6	BDH10
EBA304	CBA304	ECP6	
EBA306	CBA306	ECP10	
EBA308	CBA308	ECP10	BDH12
EBA310	CBA310	ECA10	
EBA312	CBA312	ECA10	

3 Phase, 4 Wire — Full Capacity Neutral

277/480V

EBA4024	CBA4024	ECP6	BDH10
EBA4044	CBA4044	ECP6	
EBA4064	CBA4064	ECP10	
EBA4084	CBA4084	ECA8	BDH12
EBA4104	CBA4104	ECA10	BDH12
EBA4124	CBA4124	ECA10	

Copper

3 Phase, 3 Wire

600V or Less

ETB302	CTB302	ECP6	BDH10
ETB304	CTB304	ECP6	BDH10
ETB306	CTB306	ECP6	
ETB308	CTB308	ECP10	BDH10
ETB310	CTB310	ECP10	
ETB313	CTB313	ECA10	BDH12
ETB316	CTB316	ECA10	

3 Phase, 4 Wire — Full Capacity Neutral

277/480V

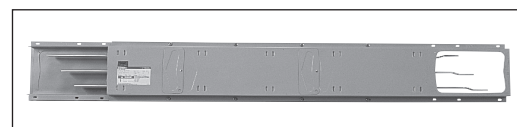
ETB4024	CTB4024	ECP6	BDH10
ETB4044	CTB4044	ECP6	BDH10
ETB4064	CTB4064	ECP6	
ETB4084	CTB4084	ECA8	BDH12
ETB4104	CTB4104	ECA8	BDH12
Rod-Hanger Adaptor Packaged 10 per carton (optional)			UJ100

Fusible Feed-In Switch^④

Rating		3 Phase, 3 Wire	3 Phase, 4 Wire
Volts	Amperes	Catalogue Number ^⑤	Catalogue Number ^⑤
240 AC or 250 DC	400	FTS3042	FTS4042
	600	FTS3062	FTS4062
600 AC	400	FTS3046	FTS4046
	600	FTS3066	FTS4066

①Includes busway stub. Total length added to run is 2' for 225A and 400A aluminum or 225A–600A copper; 3' for all others. Box is designed to connect to offset bus-bar ends. When it is to be connected to straight bus-bar ends, adaptor will be furnished upon request.
②Must be factory-assembled to busway. Complete device includes 10' busway. For aluminum catalogue number, change "ABD" to "CBA" for copper change "BDP" to "CTB".

③Two hangers included free of charge with each busway section, elbow, tee and cross.
④The FTS is designed to connect to the offset bus bar ends. Arrangements contrary to this must be specified.
⑤When ordering the fusible feed-in switch, add to the catalogue number "-C" for use with copper and "-A" for use with aluminum busway.



Busway Power Distribution

XL-U® Aluminum (225 — 5000 Ampere)

Selection

225–5000 Amperes / 600 Volts or Less
Non-Ventilated 225–600 Amperes

Busway Catalogue Number														
Ampere Rating	Basic Catalogue Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.	Feeder Busway	Plug-In Busway	Ground Bus Adder	90° [Ⓢ] Elbow	Tee	Cross	Switch-Board Connection [Ⓢ]	Transformer Throat	Transformer Tap 1-3 Phase	Transformer Tap 3-1 Phase	Roof Flange

3-Pole

225	UH302AB	4½ x 10	8												
400	UH304AB	4½ x 10	9	F	P	W	L	T	X	S	Consult Sales				
600	UH306AB	5½ x 10	10												

4-Pole Full Neutral

225	UH502AB	4½ x 10	8												
400	UH504AB	4½ x 10	9	F	P	W	L	T	X	S	Consult Sales				
600	UH506AB	5½ x 10	10												

Note: For non-ventilated 225-600A busway with PVC bars add 15%.

Ventilated 800–5000 Amperes With Ground Bus

Busway Sections Complete														
Ampere Rating [Ⓢ]		Basic Catalogue Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.	Feeder Busway	Plug-In Busway	Outdoor Feeder Adder	90° [Ⓢ] Elbow	Tee	Cross	Switch Board Connection [Ⓢ] Throat	Transformer [Ⓢ] 1-3 Phase	Transformer Tap 3-1 Phase	Roof Flange
Edge-wise	Flat-wise													

3-Pole

800	800	UH308AV	4½ x 10	10											
1000	800	UH310AV	4½ x 10	11	F	P	W	L	T	X	S	Consult Sales			
1200	1000	UH312AV	5½ x 10	12	F	P	W	L	T	X	S				
1350	1200	UH313AV	5½ x 10	13											
1600	1350	UH316AV	7½ x 10	16	F	P	W	L	T	X	S				
2000	1600	UH320AV	7½ x 10	19											
2500	2000	UH325AV	9½ x 10	23	F	P	W	L	T	X	S				
3000	3000	UH330AV	7½ x 20%	32	F	P	W	L	T	X	S				
4000	3500	UH340AV	9½ x 20%	41	F	P	W	L	T	X	S				
5000	4000	UH350AV	9½ x 20%	45											

4-Pole Full Neutral

800	800	UH508AV	4½ x 10	11	F	P	W	L	T	X	S	Consult Sales			
1000	800	UH510AV	4½ x 10	12											
1200	1000	UH512AV	5½ x 10	14	F	P	W	L	T	X	S				
1350	1200	UH513AV	5½ x 10	15											
1600	1350	UH516AV	7½ x 10	18	F	P	W	L	T	X	S				
2000	1600	UH520AV	7½ x 10	21											
2500	2000	UH525AV	9½ x 10	26	F	P	W	L	T	X	S				
3000	3000	UH530AV	7½ x 20%	35	F	P	W	L	T	X	S				
4000	3500	UH540AV	9½ x 20%	47	F	P	W	L	T	X	S				
5000	4000	UH550AV	9½ x 20%	52											

For inches / millimeters conversion, see Application Data Section.

Note: To form complete catalogue number, use basic catalogue number and substitute suffix of required item. Example: Basic busway Catalogue Number U316AV – accessory switchboard stub with ground bus U316AVSG.

To price complete device, add the following feeder busway footage to the labour charges shown:

XL-U Elbow 2' XLU-EXP Section 4'
XL-U Tee 3' XL-U SWBD Stub 1'
XL-U Cross 4' XL-U Reducer 4'

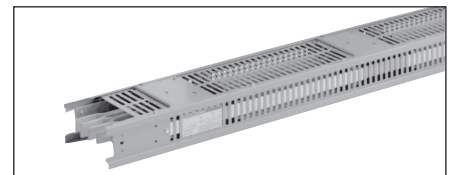
ⓈList prices are for standard construction for higher short circuit rating add an "HH" after the "U" (UHH302ABP) and add 45% to the list price. Consult sales office for available ratings.

ⓈFor elbows other than 90°, accessory charge is doubled.

ⓈSwitchboard stub includes flange to cover cutout in top of indoor switchboard and 8" of bus inside switchboard. Connecting hardware supplied by switchboard manufacturer.

ⓈVentilated XL-U busway has two ratings; see above for edgewise or flatwise mounting. XL-U also comes in nonventilated housing; consult local sales office.

ⓈTransformer throat connection includes gasketed box sized to match throat plus flexible straps and bolts. No Busway footage is included. For connection to transformers not manufactured by Siemens, consult factory.



Busway Power Distribution

XL-U® Aluminum (225 — 5000 Ampere)

Selection

225–5000 Amperes / 600 Volts or Less

Non-Ventilated 225–600 Amperes

Ampere Rating	Non ^① Fusible Reducer	Fusible ^① Reducer	Expansion Section Suffix J	Tap Box ^② End Suffix B	Center Suffix M	Wall Flange ^③ Catalog Number	Floor Support Catalog Number	End Closure Catalog Number	Draft Barrier	Weather Stop	Hangers ^④ Catalog Number
---------------	----------------------------------	------------------------------	----------------------------	-----------------------------------	-----------------	---	------------------------------	----------------------------	---------------	--------------	-------------------------------------

3-Pole

225 400 600	Consult Sales		J	B	M	UF145 UF145 UF145	UFS145 UFS145 UFS155	UE145 UE145 UE155	Consult Sales		UH145 UH145 UH155
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4-Pole Full Neutral

225 400 600	Consult Sales		J	B	M	UF145 UF145 UF155	UFS145 UFS145 UFS145	UE145 UE145 UE155	Consult Sales		UH145 UH145 UH155
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Ventilated 800–5000 Amperes with Ground Bus

Ampere Rating Edge-wise	Non ^① Fusible Reducer	Fusible ^① Reducer	Expansion Section Suffix J	Tap Box ^② End Suffix B	Center Suffix M	Wall Flange ^③ Catalog Number	Floor Support Catalog Number	End Closure Catalog Number	Draft Barrier	Weather Stop	Hangers ^④ Catalog Number
-------------------------	----------------------------------	------------------------------	----------------------------	-----------------------------------	-----------------	---	------------------------------	----------------------------	---------------	--------------	-------------------------------------

3-Pole

800 1000	Consult Sales		J	B	M	UF145 UF145	UFS145 UFS145	UE145 UE145	Consult Sales		UH145 UH145
1200 1350	Consult Sales		J	B	M	UF155 UF155	UFS145 UFS145	UE155 UE155	Consult Sales		UH155 UH155
1600 2000	Consult Sales		J	B	M	UF175 UF175	UFS179 UFS179	UE175 UE175	Consult Sales		UH175 UH175
2500	Consult Sales		J	B	M	UF195	UFS179	UE195	Consult Sales		UH195
3000	Consult Sales		J	B	M	UF275	UFS279	UE275	Consult Sales		UH275
4000 5000	Consult Sales		J	B	M	UF295 UF295	UFS279 UFS279	UE295 UE295	Consult Sales		UH295 UH295

4-Pole Full Neutral

800 1000	Consult Sales		J	B	M	UF145 UF145	UFS145 UFS145	UE145 UE145	Consult Sales		UH145 UH145
1200 1350	Consult Sales		J	B	M	UF155 UF155	UFS145 UFS145	UE155 UE155	Consult Sales		UH155 UH155
1600 2000	Consult Sales		J	B	M	UF175 UF175	UFS179 UFS179	UE175 UE175	Consult Sales		UH175 UH175
2500	Consult Sales		J	B	M	UF195	UFS179	UE195	Consult Sales		UH195
3000	Consult Sales		J	B	M	UF275	UFS279	UE275	Consult Sales		UH275
4000 5000	Consult Sales		J	B	M	UF295 UF295	UFS279 UFS279	UE295 UE295	Consult Sales		UH295 UH295

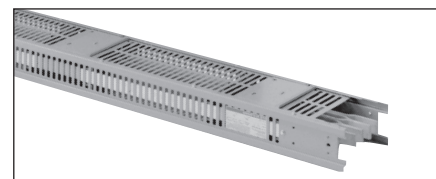
Ampere Rating of Center Tap Box	Width (Inches)	Minimum Gutter (Inches)	Lugs Per Phase
0–600	25	16	(2) 600 M kcmil
0–1350	30	19	(4) 600 M kcmil

For inches / millimeters conversion, see Application Data Section.

- ①For reducer, consult page 13-2 (J). On fusible reducers no fuses are supplied.
- ②Tap boxes furnished with standard pressure wire grip connectors. For compression lugs add 30% to list price.
- ③Floor and ceiling flanges are ordered by description. Price the same as wall flanges.
- ④For rod-hanger adaptor UJ100 see page 13-27.

Busway System	Ampere Rating	Phase Bar Material	Ground Bus Material	
			Copper	Aluminum
XL-U	225–600A	Al and Cu	100%	100%
	800–2500A		50%	50%
	3000A		50%	50%
	4000–6500A		50%	50%

Note: Ventilated busway has aluminum ground bus as standard.



Busway Power Distribution

XL-U® Copper (225 — 6500 Ampere)

Selection

225–6500 Amperes / 600 Volts or Less
Non-Ventilated 225–600 Amperes

Busway Catalog Number														
Ampere Rating	Basic Catalog Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.	Feeder Busway	Plug-In Busway	⑥ Ground Bus Adder	90°② Elbow	Tee	Cross	Switch-Board Connection③	Transformer Throat	Transformer Tap 1-3 Phase	Transformer Tap 3-1 Phase	Roof Flange

3-Pole

225	UH302CB	4½ x 10	8	F	P	G	L	T	X	S	Consult Sales			
400	UH304CB		12											
600	UH306CB		13											

4-Pole Full Neutral

225	UH502CB	4½ x 10	9	F	P	G	L	T	X	S	Consult Sales		
400	UH504CB		13										
600	UH506CB		15										

Ventilated 800–6500 Amperes With Ground Bus

Busway Sections Complete															
Ampere Rating④		Basic⑥ Catalog Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.	Feeder Busway	Plug-In Busway	Outdoor Feeder	90°② Elbow	Tee	Cross	Switch Board Connection③	Transformer Throat⑤	Transformer Tap 1-3 Phase	Transformer Tap 3-1 Phase	Roof Flange
Edge-wise	Flat-wise														

3-Pole

800	800	UH308CV	4½ x 10	12	F	P	W	L	T	X	S	Consult Sales		
1000	1000	UH310CV	4½ x 10	15										
1200	1000	UH312CV	4½ x 10	16										
1350	1200	UH313CV	4½ x 10	19										
1600	1350	UH316CV	5½ x 10	23	F	P	W	L	T	X	S	Consult Sales		
2000	1600	UH320CV	5½ x 10	26										
2500	2000	UH325CV	7½ x 10	34	F	P	W	L	T	X	S	Consult Sales		
3000	2500	UH330CV	9½ x 10	41	F	P	W	L	T	X	S	Consult Sales		
4000	4000	UH340CV	7½ x 20%	57	F	P	W	L	T	X	S	Consult Sales		
5000	4500	UH350CV	7½ x 20%	70										
6000	5000	UH360CV	9½ x 20%	85	F	P	W	L	T	X	S	Consult Sales		
6500	5500	UH365CV	9½ x 20%	98										

4-Pole Full Neutral

800	800	UH508CV	4½ x 10	14	F	P	W	L	T	X	S	Consult Sales		
1000	1000	UH510CV	4½ x 10	18										
1200	1000	UH512CV	4½ x 10	19										
1350	1200	UH513CV	4½ x 10	23										
1600	1350	UH516CV	5½ x 10	28	F	P	W	L	T	X	S	Consult Sales		
2000	1600	UH520CV	5½ x 10	30										
2500	2000	UH525CV	7½ x 10	42	F	P	W	L	T	X	S	Consult Sales		
3000	2500	UH530CV	7½ x 10	61	F	P	W	L	T	X	S	Consult Sales		
4000	4000	UH540CV	7½ x 20%	70	F	P	W	L	T	X	S	Consult Sales		
5000	4500	UH550CV	7½ x 20%	86										
6000	5000	UH560CV	9½ x 20%	105	F	P	W	L	T	X	S	Consult Sales		
6500	5500	UH565CV	9½ x 20%	122										

"M" Rating / Standard Rating Conversion Table

1000/A Square Inch "M" Rating	Standard 55°C Rating XL-U
225	—
400	—
600	800
800	1200
1000	1350
1200	1600
1350	2000
1600	2500
2000	2500
2500	3000
3000	4000
4000	5000

For inches / millimeters conversion, see Application Data Section.

Note: To form complete catalog number, use basic catalog number and substitute suffix of required item.

Example: Basic busway Catalog Number U316CV — accessory switchboard stub with ground bus U316CVSG.

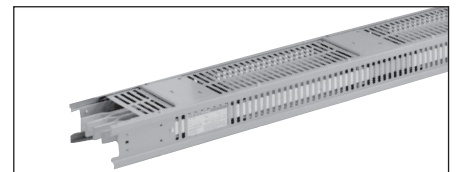
To price complete device, add the following feeder busway footage to the labour charges shown:

XL-U Elbow 2' XL-U-EXP Section 4'
XL-U Tee 3' XL-U SWBD Stub 1'
XL-U Cross 4' XL-U Reducer 4'

① List prices are for standard construction for higher short circuit rating add an "HH" after the "U" (UHH302CBP and add 45% to the list price. Consult sales office for available ratings.

② For elbows other than 90°, accessory charge is doubled.

③ Switchboard stub includes flange to cover cutout in top of indoor switchboard and 8" of bus inside switchboard. Connecting hardware supplied by switchboard manufacturer.



④ Ventilated XL-U busway has two ratings; see above for edgewise or flatwise mounting. XL-U also comes in non-ventilated housing; consult local sales office.

⑤ Transformer throat connection includes gasketed box sized to match throat plus flexible straps and bolts.

No Busway footage is included. For connection to transformers not manufactured by Siemens, consult factory.

⑥ For copper ground bus multiply footage price by 1.05.

Busway Power Distribution

XL-U® Copper (225 — 6500 Ampere)

Selection

225–6500 Amperes / 600 Volts or Less

Non-Ventilated 225–600 Amperes

Ampere Rating	Non ^① Fusible Reducer	Fusible ^① Reducer	Expansion Section Suffix J	Tap Box ^②		Wall Flange ^③	Floor Support	End Closure	Draft Barrier	Weather Stop	Hangers ^④
				End Suffix B	Center Suffix M	Catalogue Number	Catalogue Number	Catalogue Number			Catalogue Number

3-Pole

225						UF145	UFS145	UE145	Consult Sales	UH145
400						UF145	UFS145	UE145		
600						UF145	UFS145	UE145		

4-Pole Full Neutral

225						UF145	UFS145	UE145	Consult Sales	UH145
400						UF145	UFS145	UE145		
600						UF145	UFS145	UE145		

Ventilated 800–5000 Amperes with Ground Bus

Ampere Rating	Non ^① Fusible Reducer	Fusible ^① Reducer	Expansion Section Suffix J	Tap Box ^②		Wall Flange ^③	Floor Support	End Closure	Draft Barrier	Weather Stop	Hangers ^④
				Edge-wise	End Suffix B	Center Suffix M	Catalogue Number	Catalogue Number			Catalogue Number

3-Pole

800	Consult Sales	J	B	M	UF145	UFS145	UE145	Consult Sales	UH145
1000					UF145	UFS145	UE145		
1200					UF145	UFS145	UE145		
1350					UF145	UFS145	UE145		
1600	Consult Sales	J	B	M	UF155	UFS145	UE155	Consult Sales	UH155
2000					UF155	UFS145	UE155		UH155
2500	Consult Sales	J	B	M	UF175	UFS179	UE175	Consult Sales	UH175
3000	Consult Sales	J	B	M	UF195	UFS179	UE195	Consult Sales	UH195
4000	Consult Sales	J	B	M	UF275	UFS279	UE275	Consult Sales	UH275
5000					UF275	UFS275	UE275		
6000	Consult Sales	J	B	M	UF295	UFS279	UE295	Consult Sales	UH295
6500					UF295	UFS279	UE295		

4-Pole

800	Consult Sales	J	B	M	UF145	UFS145	UE145	Consult Sales	UH145
1000					UF145	UFS145	UE145		
1200					UF145	UFS145	UE145		
1350					UF145	UFS145	UE145		
1600	Consult Sales	J	B	M	UF155	UFS145	UE155	Consult Sales	UH155
2000					UF155	UFS145	UE155		UH155
2500	Consult Sales	J	B	M	UF175	UFS179	UE175	Consult Sales	UH175
3000	Consult Sales	J	B	M	UF195	UFS179	UE195	Consult Sales	UH195
4000	Consult Sales	J	B	M	UF275	UFS279	UE275	Consult Sales	UH275
5000					UF275	UFS279	UE275		
6000	Consult Sales	J	B	M	UF295	UFS279	UE295	Consult Sales	UH295
6500					UF295	UFS279	UE295		

Ampere Rating of Center Tap Box	Width (Inches)	Minimum Gutter (Inches)	Lugs Per Phase
0–600	25	16	(2) 600 M kcmil
0–1350	30	19	(4) 600 M kcmil

For inches / millimeters conversion, see Application Data Section.

① For reducer, consult page 13-2 (J). On fusible reducers no fuses are supplied.

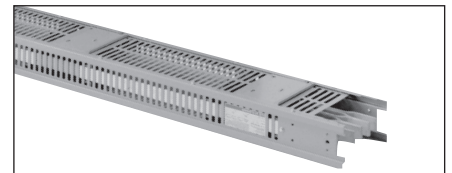
② Tap boxes furnished with standard pressure wire grip connectors. For compression lugs add 30% to list price.

③ Floor and ceiling flanges are ordered by description. Price the same as wall flanges.

④ For rod-hanger adaptor UJ100 see page 13-27.

Busway System	Ampere Rating	Phase Bar Material	Ground Bus Material	
			Copper	Aluminum
XL-U	225–600A	Al and Cu	100%	100%
	800–2500A		50%	50%
	3000A		50%	25%
	4000–6500A		25%	25%

Note: Ventilated busway has aluminum ground bus as standard.



XJ-L™ HD Busway System

XJ-L HD Busway Introduction

Competitive Advantages

XJ-L HD Busway is available up to 400A. First introduced in 1960, XJ-L Busway continues to be the leading power distribution solution for demanding applications that require reliable, high quality power. XJ-L HD Busway is the optimal choice for both contractors and users concerned with designing superior electrical systems that require a high plug density and optimal space utilization.

Competitive advantages:

- Compact size – small cross section for applications where busway routing is constrained
- Joint Connection – dual spring clamp assemblies ensure reliable, maintenance-free joints
- Safety – plug-in outlets are IP2X finger safe (optional XOC outlet covers increase system to IP40)
- Reliability – fundamental design has a 60 year history of reliability
- Service – simple snap together installation, maintenance free joints, factory stock of critical components and large distribution inventory of bus plugs ensure quick and easy serviceability
- Fittings – elbow, tee, crosses, flanged end, and tap boxes are offered in standard and custom configurations
- Compatibility – the full range of XJ-L HD bus plugs are interchangeable between 100A, 225A and 400A busway



Key features:

- Up to twelve 100A bus plugs can be installed per 10' of plug-in busway. Plug-in busway can be configured with six plug-in openings per side (standard) or twelve on one side (high density).
- Bus plugs are readily installed on energized busway and are fully interchangeable between 100, 225 and 400A configurations.
- Bus plugs are available with fusible or circuit breaker disconnects, configured with a wide variety of optional receptacles, branch circuit breakers, drop cords, power monitoring, indicator lights, etc.
- Bus bars are solid copper (98% conductivity) and tin plated for superior electrical performance and corrosion resistance (optional silver plating is also available). The solid bus bar design provides superior short circuit strength (up to 35 kA) compared to channel style conductors and cable.
- Totally enclosed steel housing is robust, guarding against incidental contact and contamination of live parts. Enclosed box design will not twist or distort during bus plug installation.
- Installation is fast and easy. Joint connections simply snap together without special tools, housing couplers, or bus connectors.
- Suitable for horizontal and vertical mounting and under-the floor applications.

XJ-L™ HD Busway System

XJ-L HD Busway Overview

XJ-L HD Busway

XJ-L HD Busway is well known for its outstanding performance, providing convenient, cost-effective power distribution for high-tech environments, data centers, laboratories, and other applications requiring consistent, quality power distribution. Key XJ-L HD design features include optional isolated ground or 200% neutral across entire product range. For maximum availability, XJ-L HD Busway is maintained as a stock product to meet your quickship requirements.

As a result, XJ-L HD Busway is an intelligent choice for contractors and users concerned with designing superior electrical distribution systems. The compact design is ideal for limited working areas in computer manufacturing, laboratory or test facilities, schools, hospitals, and machine shops.

With XJ-L HD Busway, you get an exclusive, optional isolated ground design that ensures clean power. Unlike bonded ground designs that may convey surges from one electrical device to another, the XJ-L HD optional isolated ground system is well suited for high-tech computer intensive environments. The ground bar is the same size as the phase bars, with the same ampere rating. Installation is easy,

joining one XJ-L HD Busway section to another is as simple as matching ends and snapping them together. Bus bars are held securely in place by spring pressure clips located in the joint insulator. The joint is secured when the external housing plate is attached with captive screws. Thanks to built-in flexibility and a low initial cost, you also benefit from future savings when you need new equipment.

Time to add on busway for new or expanded facilities? The XJ-L Busway you installed years ago matches the XJ-L HD Busway you specify today and years from now the new busway sections, components or system-compatible bus plugs will still fit.

Dependability

With over one million feet in service, XJ-L HD Busway has a proven track record. The busway joints are easy to install and maintenance free. Solid copper bus bars and totally enclosed steel housings are designed for decades of dependable service.

Flexibility

Siemens XJ-L HD Busway is available in a wide variety of straight lengths, elbows, tees, crosses, and tap boxes that can be installed and then readily expanded or reconfigured to meet changing requirements. Custom fittings and straight lengths can be engineered to tailor the busway

system to application-specific customer requirements. Bus Plugs can be installed, then relocated as required without de-energizing the busway. All XJ-L HD Bus Plugs are fully interchangeable with all XJ-L HD Busway configurations.

Cost

Siemens XJ-L HD Busway offers a lower cost solution, compared to cable and conduit, sandwich style busway or even light duty track busway. Snap together installation requires no special tools and is fast, easy and maintenance free. Solid, highly conductive bus bars minimize electrical losses and ensure long-term energy savings.

Equipment protection

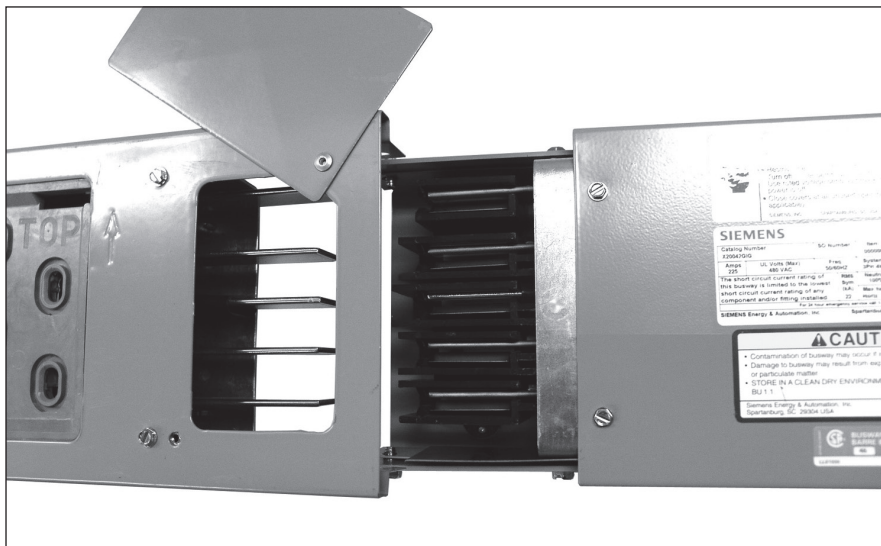
Critical equipment is protected via fuse or circuit breaker plugs. Due to their proximity, the plugs provide a localized method of protection and disconnection.

Space

Space in critical power/data center facilities is at a premium. XJ-L HD Busway requires less space than conventional power distribution methods such as cable and conduit.

Availability

XJ-L HD Busway and plugs are stocked to meet your quick-ship requirements. Once you factor in all the advantages, XJ-L HD is clearly the best choice for reliable, flexible, and economical power distribution for data centers, light industrial, and high tech applications.



XJ-L™ HD Busway System

XJ-L HD Busway Specifications

XJ-L HD Busway is available in 100A, 225A and 400A ratings making it the right choice for light industrial and commercial applications where low initial startup and maintenance costs are prerequisites. XJ-L HD Busway is the most logical choice for high tech, data intensive environments, especially when isolated ground is required.

Housing

XJ-L HD Busway features a totally enclosed, non-ventilated, steel housing. The housing is covered with an electrostatically applied polyester urethane powder paint. Choice of colors: ASA#61 Grey or Graphite Grey. The paint is scratch resistant and has a 500 hour salt spray rating.

Conductors

The conductors are fabricated from 98% conductivity copper. The bars are "spaced-in-air" and held securely in the housing by the plug-in outlets and joints.

Neutral

100% neutral is available for standard 4 wire applications. A second neutral bar can be added for 200% neutral capacity.

Note: the 200% neutral bar can be utilized as Isolated Ground.

The internal ground bus is 100% rated for 100A, 60% rated for 225A, and 50% for 400A busway. Isolated ground is rated at 100% for both amperages.

Plating

The entire length of the bus bar is tin plated to ensure good electrical contact at all joint and plug tap-off points. The plating also serves to protect the bars from corrosion. Optional silver plating is available.

Plug-in base

XJ-L HD Busway features multiple plug-in locations. The plastic, non-tracking outlets are located on 20 inch centers and support the bus bars providing bracing during short circuit conditions. The plug-in outlets are IP2X (finger safe). Optional plug-in base covers (XOC) are available separately or they can be factory installed.

Joint connection

Busway sections are connected via a maintenance-free, spring pressure joint. The busway ends are easily aligned and



bus bar ends are held securely in place by spring pressure clips located in the joint insulator. The housings are connected via external housing plates and captive screws.

Bus plugs

There are twelve plug-in outlets on each 10 foot (3.048 m) section, six openings on 5 foot (1.524 m) sections and two outlets on 2 foot (.616 m) sections. Bus plugs are available with amperages ranging from 15A to 200A. Bus plugs feature circuit breakers or fusible switch disconnects.

Testing

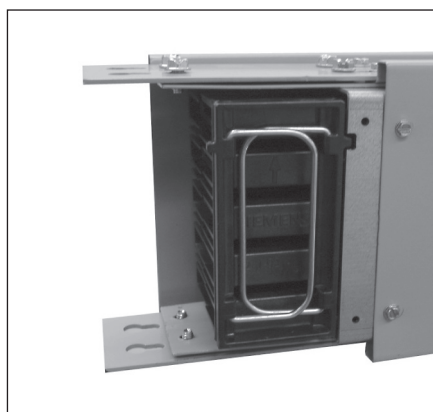
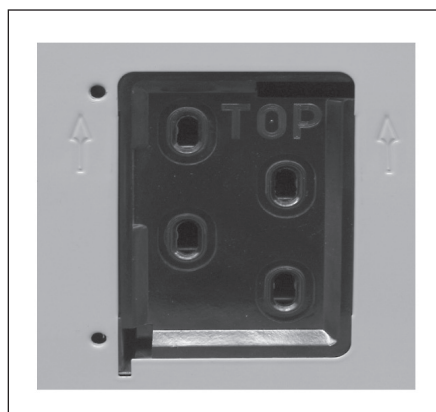
Each piece of XJ-L HD Busway is factory tested prior to shipment. A dielectric test is performed to ensure product integrity. XJ-L HD Busway is manufactured and inspected in accordance to an ISO 9001 registered Quality Management System.

Standards

XJ-L HD Busway products meet the following standards:
 UL 857
 NEMA BU1
 CSA C22.2

Ratings

Amperage: 100A, 225A and 400A
 Voltage: 600 VAC max
 Short circuit: 100A – 10kAIC
 225A – 22kAIC



R,X,Z and voltage drop

Ampere rating	Bus bar width x .125 in. (3.2 mm) thick	Ohm x 10-3 per 100 ft. Line to neutral			Voltage drop – concentrated loads, line-to-line per 100 ft. at 100% rated load, 35°C ambient power factor							
		R	X	Z	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
100	0.50 (13.0)	1.67	8.71	1.88	2.30	2.54	2.75	2.94	3.10	3.21	3.25	2.89
225	1.00 (25.4)	8.20	4.08	9.16	2.48	2.74	2.98	3.19	3.37	3.51	3.57	3.20
400	2.13 (54.1)	4.27	3.01	5.23	2.88	3.10	3.29	3.44	3.56	3.62	3.57	2.96

XJ-L™ HD Busway System

Straight Sections

Plug-in section

Prefix	Type	Fitting Type			Amp	Configuration	Color	Plug-in Busway Only		
		1	2	0				Plug-In Location	Plug-In Spacing	
BW	J	P	1	2	0	1	6	G	2	
XJ-L HD	↑	↑	Length: 024 = 24 inches 060 = 60 inches 120 = 120 inches			1 = 100 2 = 225 4 = 400	1 = 3Ø 2 = 3Ø + Internal Grd 3 = 3Ø + Isolated Grd 4 = 3Ø + Internal Grd + Isolated Grd 5 = 3Ø + Neutral 6 = 3Ø + Neutral + Internal Grd 7 = 3Ø + Neutral + Isolated Grd 8 = 3Ø + Neutral + Internal Grd + Isolated Grd 9 = 3Ø + 200% Neutral 0 = 3Ø + 200% Neutral + Internal Ground	A = Graphite G = ANSI 61 X = Other	L = Left Side Only R = Right Side Only S = Dual Side	1 = 20" Dual Side ^① 2 = 9.75" Single Side ^② X = Other ^③
Plug-in										

Notes:
 ① Use for Plug-in Length = "S"
 ② Use for Plug-in Length = "L" or "R"
 ③ Other custom spacing must be pre-approved

Plug-in sections

Available in 10 foot (3.048 m), 5 foot (1.524 m) or 2 foot (.616 m) standard plug-in lengths, XJ-L HD Busway offers layout flexibility to meet custom requirements. Plug-in busway can be configured with six plug-in openings per side or twelve on one side.

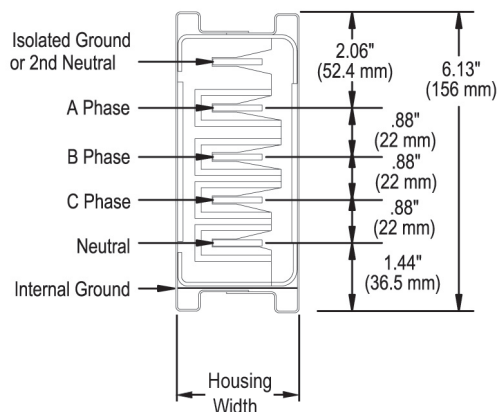
Feeder Section

Prefix	Type	Fitting Type			Amp	Configuration	Colour	
		1	2	0				
BW	J	F	1	2	0	1	6	G
XJ-L HD	↑	↑	Length in inches, Ex. 2' 3" = 024 Feeder lengths available from 16" (016) up to 10' 0" (120)			1 = 100 2 = 225 4 = 400	1 = 3Ø 2 = 3Ø + Internal Grd 3 = 3Ø + Isolated Grd 4 = 3Ø + Internal Grd + Isolated Grd 5 = 3Ø + Neutral 6 = 3Ø + Neutral + Internal Grd 7 = 3Ø + Neutral + Isolated Grd 8 = 3Ø + Neutral + Internal Grd + Isolated Grd 9 = 3Ø + 200% Neutral 0 = 3Ø + 200% Neutral + Internal Ground	A = Graphite G = ANSI 61 X = Other
Feeder								

Feeder Sections

Feeder busway carries the current of the busway system from the supply source. Feeder busway does not have plug-in outlets. Feeder busway is available in custom lengths from 16.00 in (406mm) to 120.00 in (3048mm). Feeder sections are available as Indoor.

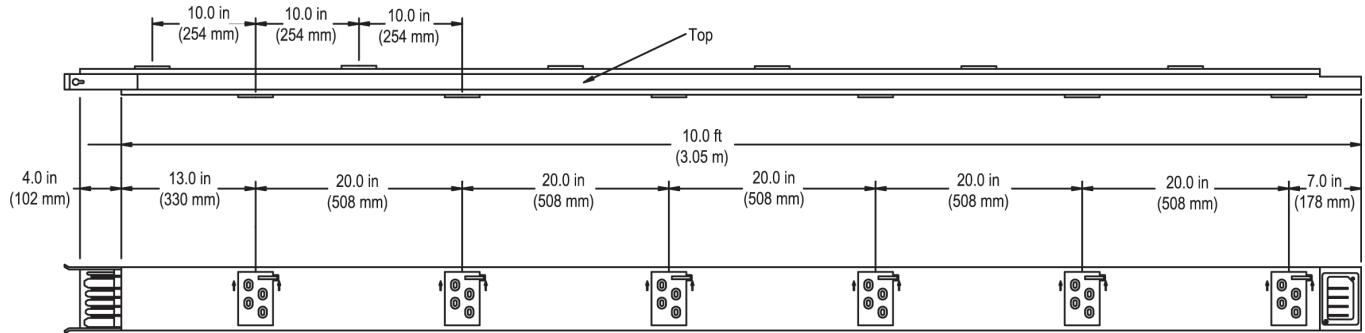
XJ-L HD Busway also features an exclusive rotating cover plate to facilitate inspection of the joints. The light weight design of the busway and plugs makes the installation of XJ-L HD Busway quick and trouble-free.



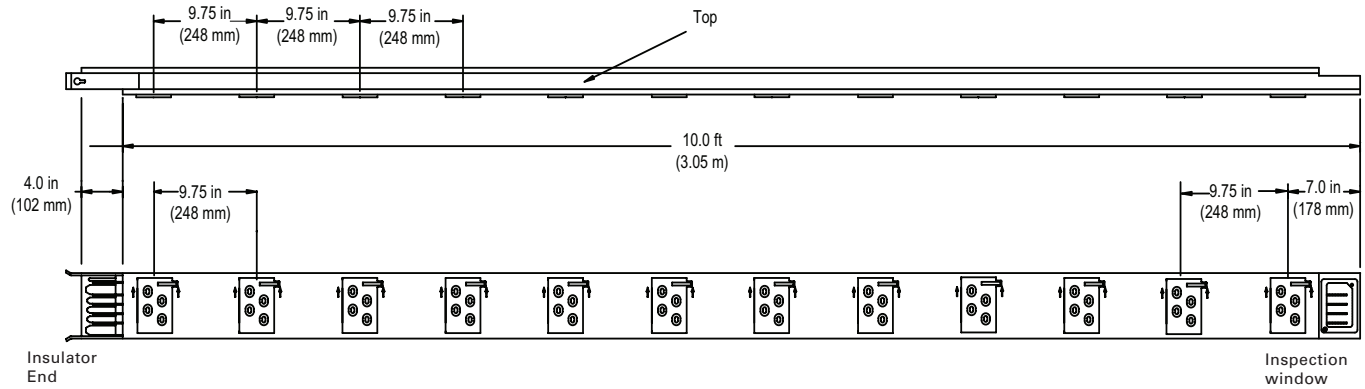
XJ-L™ HD Busway System

Straight Sections

Plug-in Section (Dual Side)



Plug-in Section (Single Side-Right hand configuration shown)



Plug-in Section

Ampere Rating	Bus Bar Material	Bar Thickness	Bar Width	Housing Width	Housing Height	Max Voltage	Short Circuit Rating	Length Ft (M)	3 Pole			4 Pole		
									Catalogue Number	Model Number ^①	Wgt. (lb)	Catalogue Number	Model Number ^①	Wgt. (lb)
100	Copper	.125 (3.2)	.5 (13)	2.0 (51)	6.13 (156)	600V	10kA	10.0 (3.05)	XC1003	BWJP12011GS1	42	XC1004	BWJP12015GS1	45
100	Copper	.125 (3.2)	.5 (13)	2.0 (51)	6.13 (156)	600V	10kA	5.0 (1.52)	XC10035	BWJP06011GS1	21	XC10045	BWJP06015GS1	23
100	Copper	.125 (3.2)	.5 (13)	2.0 (51)	6.13 (156)	600V	10kA	2.0 (.61)	XC10032	BWJP02411GS1	8	XC10042	BWJP02415GS1	9
225	Copper	.125 (3.2)	1.0 (25)	2.5 (64)	6.13 (156)	600V	22kA	10.0 (3.05)	X2003	BWJP12021GS1	56	X2004	BWJP12025GS1	62
225	Copper	.125 (3.2)	1.0 (25)	2.5 (64)	6.13 (156)	600V	22kA	5.0 (1.52)	X20035	BWJP06021GS1	28	X20045	BWJP06025GS1	30
225	Copper	.125 (3.2)	1.0 (25)	2.5 (64)	6.13 (156)	600V	22kA	2.0 (.61)	X20032	BWJP02421GS1	10	X20042	BWJP02425GS1	12
400	Copper	.125 (3.2)	2.12 (54)	3.6 (92)	6.13 (156)	600V	35kA	10.0 (3.05)	X4003	BWJP12041GS1	69	X4004	BWJP12045GS1	79
400	Copper	.125 (3.2)	2.12 (54)	3.6 (92)	6.13 (156)	600V	35kA	5.0 (1.52)	X40035	BWJP06041GS1	35	X40045	BWJP06045GS1	40
400	Copper	.125 (3.2)	2.12 (54)	3.6 (92)	6.13 (156)	600V	35kA	2.0 (.61)	X40032	BWJP02441GS1	15	X40042	BWJP02445GS1	17

① Model Numbers Effective Aug 2011

Feeder Section

Ampere Rating	Bus Bar Material	Bar Thickness	Bar Width	Housing Width	Housing Height	Max Voltage	Short Circuit Rating	Length In. (mm)	3 Pole			4 Pole		
									10' Catalogue Number	10' Model Number ^①	Wgt. (lb/ft)	10' Catalogue Number	10' Model Number ^①	Wgt. (lb/ft)
100	Copper	.125 (3.2)	.5 (13)	2.0 (51)	6.13 (156)	600V	10kA	16.0-120.0 (406 - 3048)	XC1003-Spec	BWJF12011GS1	4.2	XC1004-Spec	BWJF12015GS1	4.5
225	Copper	.125 (3.2)	1.0 (26)	2.5 (64)	6.13 (156)	600V	22kA		X2003-Spec	BWJF12021GS1	5.6	X2004-Spec	BWJF12025GS1	6.2
400	Copper	.125 (3.2)	2.12 (54)	3.6 (92)	6.13 (156)	600V	35kA		X4003-Spec	BWJF12041GS1	6.9	X4004-Spec	BWJF12045GS1	7.9

① Model Numbers Effective Aug 2011

XJ-L™ HD Busway System

Elbows

Fittings

Prefix	Type	Fitting Type				Amp	Configuration	Colour
BW	J	E	L	E	L	1	7	A
		E = Edge L = Left F = Flat R = Right				1 = 100 2 = 225 4 = 400	1 = 3Ø 2 = 3Ø + Internal Grd 3 = 3Ø + Isolated Grd 4 = 3Ø + Internal Grd + Isolated Grd 5 = 3Ø + Neutral 6 = 3Ø + Neutral + Internal Grd 7 = 3Ø + Neutral + Isolated Grd 8 = 3Ø + Neutral + Internal Grd + Isolated Grd 9 = 3Ø + 200% Neutral 0 = 3Ø + 200% Neutral + Internal Ground	A = Graphite G = ANSI 61 X = Other

Flat elbows

Right hand or left hand XJ-L HD Busway system 90 degree flat elbows are available. When specifying be sure to use the proper catalogue number suffix to identify the required fitting.

Flat Elbow

Ampere Rating	Poles	Catalogue Number	Model Number ^①	Catalogue Number	Model Number ^①
100	3	XC1003L1	BWJELFR11G	XC1003L3	BWJELFL11G
100	4	XC1004L1	BWJELFR15G	XC1004L3	BWJELFL15G
225	3	X2003L1	BWJELFR21G	X2003L3	BWJELFL21G
225	4	X2004L1	BWJELFR25G	X2004L3	BWJELFL25G
400	3	X4003L1	BWJELFR41G	X4003L3	BWJELFL41G
400	4	X4004L1	BWJELFR45G	X4004L3	BWJELFL45G

① Model Numbers Effective Aug 2011

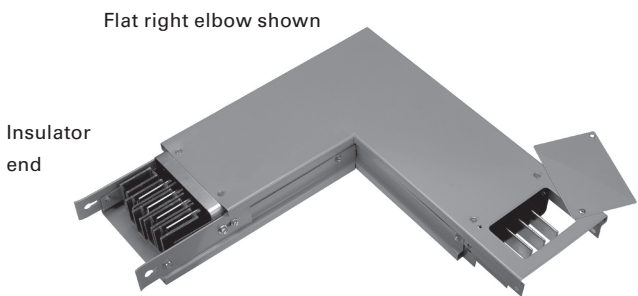
Edge elbows

Right hand or left hand XJ-L HD Busway system 90 degree edge elbows are available. When specifying, be sure to use the proper catalogue number suffix to identify the required fitting.

Edge Elbow

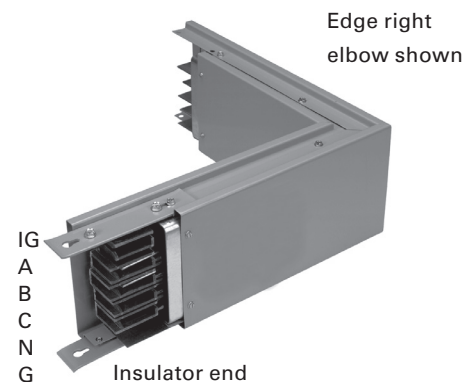
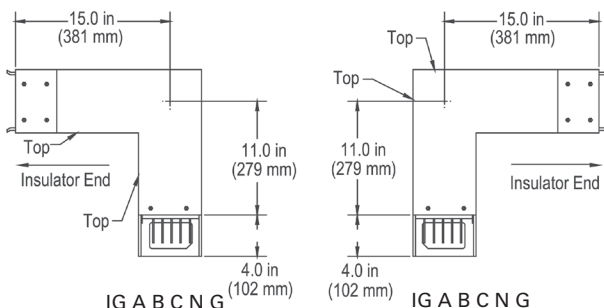
Ampere Rating	Poles	Catalogue Number	Model Number ^①	Catalogue Number	Model Number ^①
100	3	XC1003L2	BWJELER11G	XC1003L4	BWJELEL11G
100	4	XC1004L2	BWJELER15G	XC1004L4	BWJELEL15G
225	3	X2003L2	BWJELER21G	X2003L4	BWJELEL21G
225	4	X2004L2	BWJELER25G	X2004L4	BWJELEL25G
400	3	X4003L2	BWJELER41G	X4003L4	BWJELEL41G
400	4	X4004L2	BWJELER45G	X4004L4	BWJELEL45G

① Model Numbers Effective Aug 2011



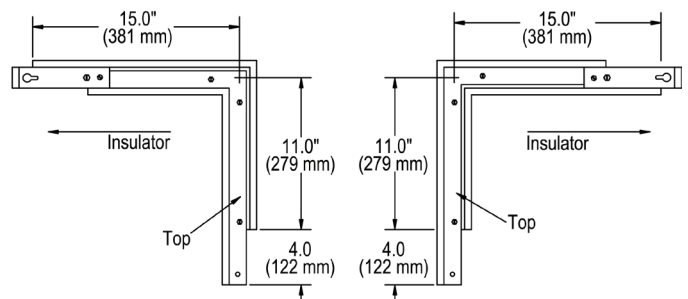
Left Elbow (-3)

Flat Right Elbow (-1)



Left Elbow (-4)

Right Elbow (-2)



XJ-L™ HD Busway System

Tees and Crosses

Fittings

Prefix	Type	Fitting Type			Amp	Configuration	Colour	
BW	J	C	R	E	2	1	7	A
XJ-L HD		C	R	E = Edge	2	1 = 100 2 = 225 4 = 400	1 = 3Ø 2 = 3Ø + Internal Grd 3 = 3Ø + Isolated Grd 4 = 3Ø + Internal Grd + Isolated Grd 5 = 3Ø + Neutral 6 = 3Ø + Neutral + Internal Grd 7 = 3Ø + Neutral + Isolated Grd 8 = 3Ø + Neutral + Internal Grd + Isolated Grd 9 = 3Ø + 200% Neutral 0 = 3Ø + 200% Neutral + Internal Ground	A = Graphite G = ANSI 61 X = Other

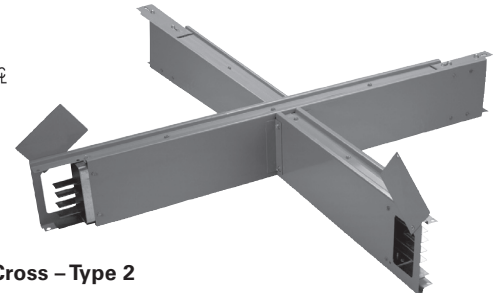
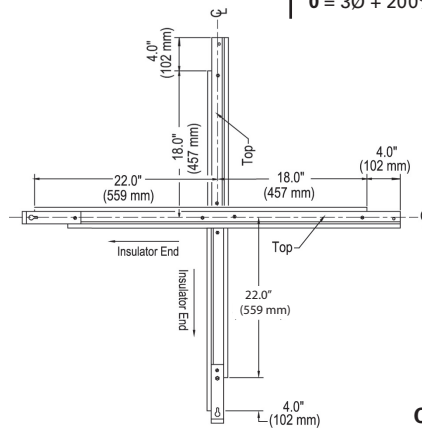
Cross

Crosses are fittings used to interconnect two busway runs which are located at right angle to each other.

Cross

Ampere Rating	Poles	Catalogue Number	Model Number ^①
100	3	X1003CR2	BWJCRE211G
100	4	XC1003CR2	BWJCRE215G
225	3	X2003CR2	BWJCRE221G
225	4	X2004CR2	BWJCRE225G
400	3	X4003CR2	BWJCRE241G
400	4	X4004CR2	BWJCRE245G

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Cross - Type 2

Fittings

Prefix	Type	Fitting Type			Amp	Configuration	Colour	
BW	J	T	E	E	2	1	7	A
XJ-L HD		T	E	E = Edge	2,4	1 = 100 2 = 225 4 = 400	1 = 3Ø 2 = 3Ø + Internal Grd 3 = 3Ø + Isolated Grd 4 = 3Ø + Internal Grd + Isolated Grd 5 = 3Ø + Neutral 6 = 3Ø + Neutral + Internal Grd 7 = 3Ø + Neutral + Isolated Grd 8 = 3Ø + Neutral + Internal Grd + Isolated Grd 9 = 3Ø + 200% Neutral 0 = 3Ø + 200% Neutral + Internal Ground	A = Graphite G = ANSI 61 X = Other

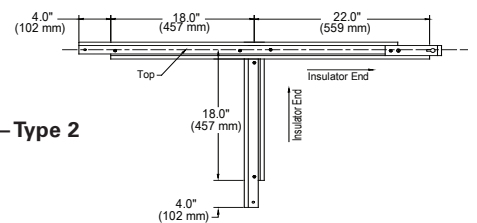
Tee

Tees permit a second run of busway to extend at right angles to a straight busway run.

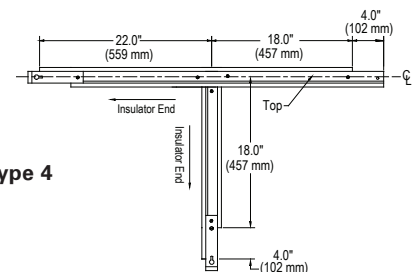
Tees

Ampere Rating	Poles	Catalogue Number	Model Number ^①	Catalogue Number	Model Number ^①
100	3	XC1003T2	BWJTEE211G	XC1003T4	BWJTEE411G
100	4	XC1004T2	BWJTEE215G	XC1004T4	BWJTEE415G
225	3	X2003T2	BWJTEE221G	X2003T4	BWJTEE421G
225	4	X2004T2	BWJTEE225G	X2004T4	BWJTEE425G
400	3	X4003T2	BWJTEE241G	X4003T4	BWJTEE441G
400	4	X4004T2	BWJTEE245G	X4004T4	BWJTEE445G

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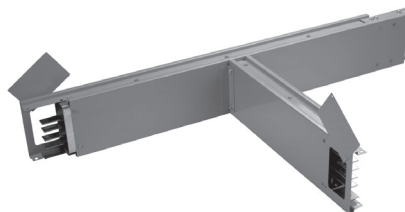


Tee - Type 2



Tee - Type 4

Right Hand Shown



XJ-L™ HD Busway System

Tap Boxes

Center Tap Boxes

Center Tap Boxes							Tap Box Only ^②					
Prefix	Type	Fitting Type				Amp	Config.	Colour	Tap Box Steel	Lug opt.	Meter	Meter Surface
BW	J	C	T	L	N	2	4	A	S	A	1	N
XJ-L HD	↑	→ C	L = Left (rear) R = Right (front)		N	1 = 100 2 = 225 4 = 400		A = Graphite G = ANSI 61 X = Other	S = Standard X = Custom / Other		N = None 1 = PAC3200 2 = PAC3100 X = Other	N = None / NA L = Left R = Right (Inspection Cover Side) X = Other
Center Tap Box							1 = 3Ø 2 = 3Ø + Internal Grd 3 = 3Ø + Isolated Grd 4 = 3Ø + Internal Grd + Isolated Grd 5 = 3Ø + Neutral 6 = 3Ø + Neutral + Internal Grd 7 = 3Ø + Neutral + Isolated Grd 8 = 3Ø + Neutral + Internal Grd + Isolated Grd 9 = 3Ø + 200% Neutral 0 = 3Ø + 200% Neutral + Internal Ground					

Notes:

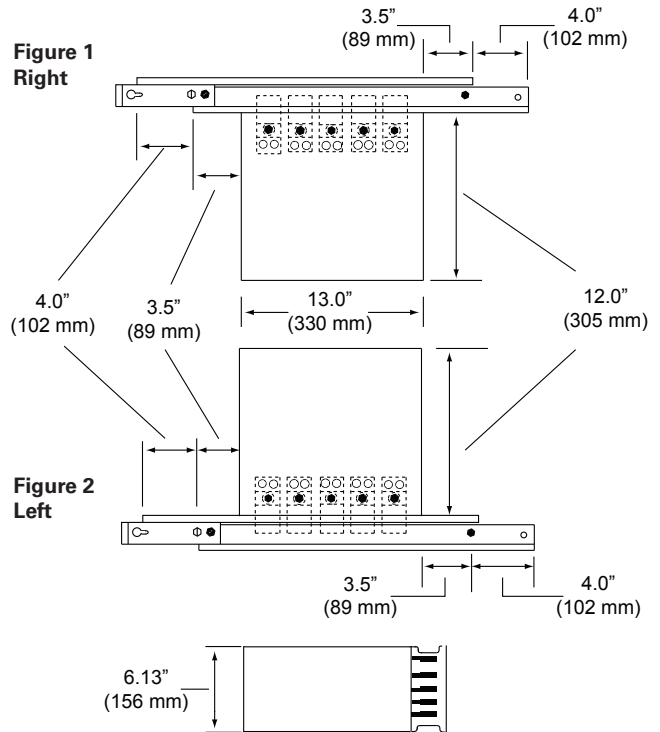
- ① Use X for Tap Box Steel
- ② Not required for Flanged End. Leave fields blank

Center Cable Tap Box

Center tap boxes are non-fusible devices utilized to feed to or take off power from the busway run. When loads served by the busway run do not require over-current protection, center tap boxes may be used. If the application requires additional wiring bending space, extended center tap boxes are available. Center tap boxes are an actual part of the busway run and require a space of 32 in. (810 mm) for installation.



Right Hand Shown



Center Tap Box

Ampere Rating	Poles	Catalogue Number Front Connected Fig 1	Model Number ^① Right Connected Fig 1	Catalogue Number Rear Connected Fig 2	Model Number ^① Left Connected Fig 2	Terminals Provided Qty/Pole and Size Cu/Al wire
225	3	X2003M	BWJCTRN21GSANN	X2003M	BWJCTLN21GSANN	(1) 350MCM - #6
225	4	X2004M	BWJCTRN25GSANN	X2004M	BWJCTLN25GSANN	(1) 350MCM - #6
400	3	X4003M1	BWJCTRN41GSANN	X4003M2	BWJCTLN41GSANN	(2) 350MCM - #6
400	4	X4004M1	BWJCTRN45GSANN	X4004M2	BWJCTLN45GSANN	(2) 350MCM - #6

① Model Numbers Effective Aug 2011

XJ-L™ HD Busway Systems

Tap Boxes

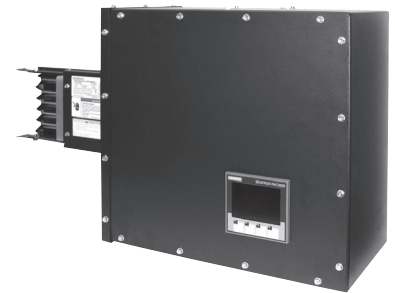
End Tap Boxes

Prefix	Type	Fitting Type				Amp	Config.	Colour	Tap Box Only ^②			
		E	T	B	R				Tap Box Steel	Lug opt.	Meter	Meter Surface
BW	J	E	T	B	R	2	4	A	S	A	1	R
XJ-L HD	↑	→ E	T	B	L = Left R = Right	1 = 100 2 = 225 4 = 400		A = Graphite G = ANSI 61 X = Other	S = Standard X = Custom / Other		N = None 1 = PAC3200 2 = PAC3100 X = Other	N = None / NA L = Left R = Right (Inspection Cover Side) X = Other
<p>End Tap Box</p> <p>Notes:</p> <p>① Use X for Tap Box Steel</p> <p>② Not required for Flanged End. Leave fields blank</p> <p>1 = 3Ø 2 = 3Ø + Internal Grd 3 = 3Ø + Isolated Grd 4 = 3Ø + Internal Grd + Isolated Grd 5 = 3Ø + Neutral 6 = 3Ø + Neutral + Internal Grd 7 = 3Ø + Neutral + Isolated Grd 8 = 3Ø + Neutral + Internal Grd + Isolated Grd 9 = 3Ø + 200% Neutral 0 = 3Ø + 200% Neutral + Internal Ground</p> <p>A = Std Mech Lug B = 1.75 Dual Hole (No Lug) X = Custom / Other^① D = Extended Box with 500MCM Mechanical</p>												

End Tap Box

End tap boxes are devices used to connect cable and conduit to the end of a busway run or where busway runs connect without the need for over-current protection. End tap boxes may be installed at the end or beginning of a run.

Tap boxes can be configured with surge protection and current monitoring devices.

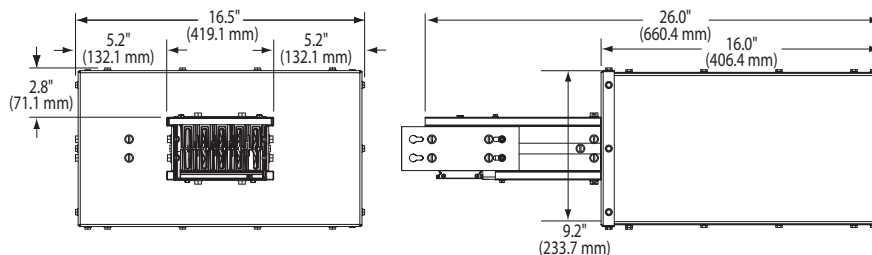


Right Hand Shown

End Tap Box

Ampere Rating	Poles	Catalogue Number	Model Number ^①	Terminals Provided Qty/Pole and Size Cu/Al wire
100	3	X1003ETVB	BWJETBR11GS	(1) 1/0 - #14
100	4	X1004ETVB	BWJETBR15GS	(1) 1/0 - #14
225	3	X2003ETVB	BWJETBR21GS	(1) 350MCM - #6
225	4	X2004ETVB	BWJETBR25GS	(1) 350MCM - #6
400	3	X4003ETVB	BWJETBR41GS	(2) 350MCM - #6
400	4	X4004ETVB	BWJETBR45GS	(2) 350MCM - #6

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XJ-L™ HD Busway System

Flanged Ends

Flanged End

Prefix	Type	Fitting Type				Amp	Config.	Colour
BW	J	F	R	N	N	2	4	A
XJ-L HD		E = Std.				1 = 3Ø	A = Graphite G = ANSI 61 X = Other	
Flanged End		R = Nema	N	N	1 = 100 2 = 225 4 = 400	2 = 3Ø + Internal Grd 3 = 3Ø + Isolated Grd 4 = 3Ø + Internal Grd + Isolated Grd 5 = 3Ø + Neutral 6 = 3Ø + Neutral + Internal Grd 7 = 3Ø + Neutral + Isolated Grd 8 = 3Ø + Neutral + Internal Grd + Isolated Grd 9 = 3Ø + 200% Neutral 0 = 3Ø + 200% Neutral + Internal Ground		
		X = Other						

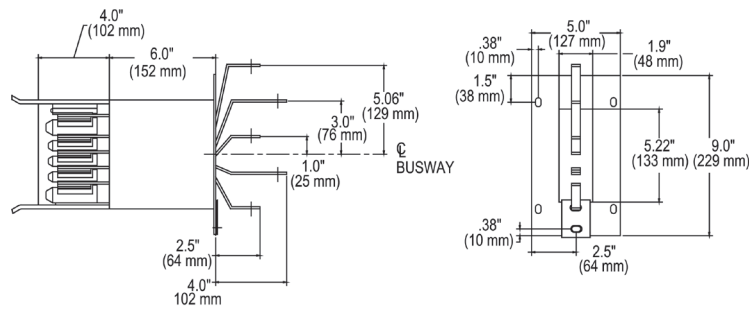
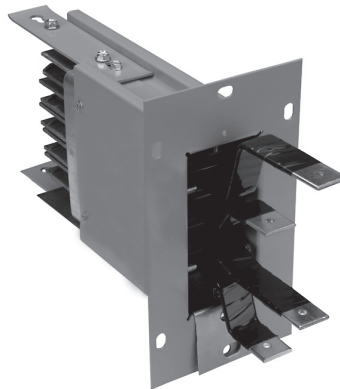
Flanged end

Flanged ends are used to connect busway to switchboards. Flanged ends come complete with bus bar extensions to facilitate the making of electrical connections.

Flanged end

Ampere Rating	Poles	Catalogue Number	Model Number ^①
100	3	XC1003FE	BWJFENN11GS
100	4	XC1004FE	BWJFENN15GS
225	3	X2003FE	BWJFENN21GS
225	4	X2004FE	BWJFENN25GS
400	3	X4003FE	BWJFENN41GS
400	4	X4004FE	BWJFENN45GS

① Model Numbers Effective Aug 2011



XJ-L™ HD Busway Systems

Accessories

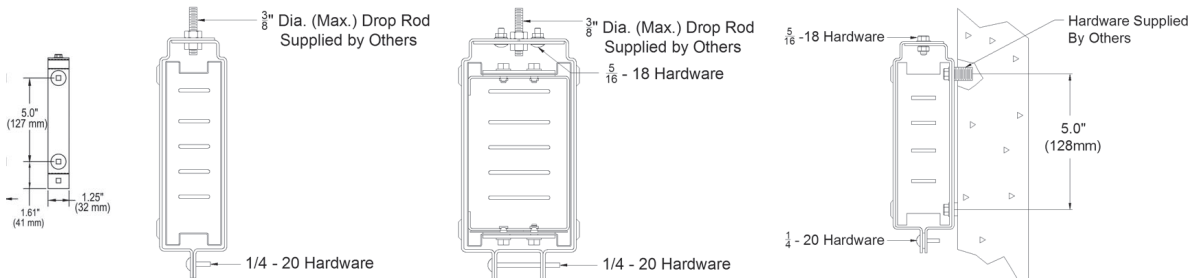
Busway hanger

XH2 and XH3 hangers are used to support XJ-L HD Busway and can be used with customer supplied rods up to 3/8 inch in diameter. Hangers are adaptable for wall mounting or ceiling suspension arrangements, either edge or flat. Custom mounting solutions available upon request.

Busway Hanger

Ampere Rating	Catalogue Number	Model Number ^①	Dimn A in. (mm)
100	XH2	BWJH0011G	2.25 (57)
225	XH2	BWJH0012G	2.75 (69)
400	XH3	BWJH0014G	4 (101)

Tip: Bus plug access may be restricted by hangers or drop rods. This should be considered in the system layout.



Hangers

Prefix	Type	Fitting Type			Amp	Colour
BW	J	H	0	0	1	G
XJ-L HD	Hanger				1 = 100 2 = 225 4 = 400	A = Graphite G = ANSI 61 X = Other
						001 = Single Drop Rod (XH style) 002 = Side Mount for strut channel ^① 003 = Saddle Mount for strut channel ^① 004 = Pole Mount ^① 005 = Dual Drop Rod Saddle ^① 006 = Dual/Single Drop Rod Frame XXX = Other ^①

Notes:
^① MTO-E Custom Product

End closer

An end closer is used to terminate busway runs. To extend the run, simply remove the end closer and add new sections as needed.



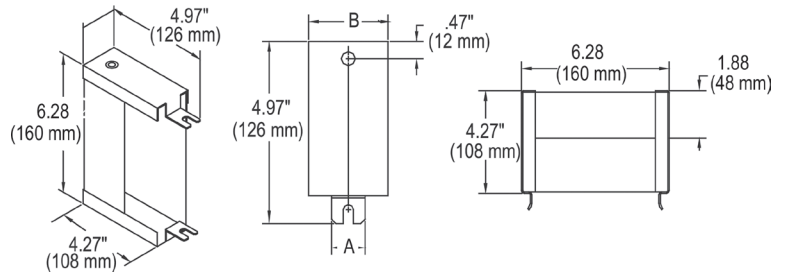
End Closer

Prefix	Type	Fitting Type			Amp	Colour
BW	J	X	E	N	1	G
XJ-L HD	End Closer		E	N	1 = 100 2 = 225 4 = 400	A = Graphite G = ANSI 61 X = Other

End Closer

Ampere Rating	Catalogue Number	Model Number ^①	Dimn. A in (mm)	Dimn. B in (mm)
100	XE100	BWJXENN1G	2.06 (52)	0.94 (24)
225	XE200	BWJXENN2G	2.31 (59)	1.44 (37)
400	XE400	BWJXENN4G	3.44 (87)	2.5 (64)

Tip: Utilization of the busway plug-in opening adjacent to the End Closer may be limited to XQ45 bus plugs. This applies only if the End Closer is located to the Right-hand of the bus plug.



XOC outlet covers

Optional outlet covers are available for closing off the plug-in outlets when desired.

Outlet Cover

Ampere Rating	Catalogue Number	Model Number ^①
100	XOC	BWJXOCN1G
225	XOC	BWJXOCN2G
400	XOC	BWJXOCN4G



Outlet Cover

Prefix	Type	Fitting Type			Amp	Colour
BW	J	X	O	C	1	G
XJ-L HD	Plug-in Cover		O	C	1 = 100 2 = 225 4 = 400	A = Graphite G = ANSI 61 X = Other

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XJ-L™ HD Busway Systems

Bus Plugs / XJ-L HD Power Modules (XPMs)

Bus plugs for XJ-L Busway are available from 15A to 200A, with molded case circuit breakers or Vacu-Break fusible switches. All XJ-L bus plugs are fully interchangeable with all XJ-L Busway configurations.

Lightweight and portable, plugs can be installed or relocated as required **without de-energizing the busway**. Pre-engineered plug-in opening locations ensure no interference for **greater density** and maximum flexibility. This is especially important in high tech areas requiring frequent movement of equipment.

XJ-L HD Power Modules are available with 3, 6, or 12 branch circuit protection in both single and 3-phase configurations, ranging from 15 –200 amps for maximum power density and flexibility.

A wide variety of NEMA and IEC receptacles or cord connections are available for the XPM. Integral current monitoring and surge protection are available upon request.



Selection Guide

Enclosure Type	Plug-in Spacing	Breaker Type	Application
A = 3 Circuit - XQ Series	20.00 & 9.75	BQ, BQH, HBQ QP, QPH, HPQ	XQ style — No receptacle
B = 3 Circuit - XQR Series	20.00 & 9.75 ^②		XQR style — with duplex receptacle provision. May be used for custom receptacles or when additional wiring space is required
C = 3 Circuit HD XPM	20.00 & 9.75	BL, BLH, HBL, BQD	Use for applications that require factory installed breakers and receptacles
E = 6 Circuit HD XPM	20.00 & 9.75		Cover operable handle. Uses heavy duty E-Frame Breakers
F = 12 Circuit XPM ^{③④}	9.75 only ^{③④}		
G = XLEC	20.00 & 9.75 ^②	ED2,ED4,ED6	Uses heavy duty E-Frame breakers
H = XEC	20.00 & 9.75 ^②	na	Plug-in tap off device - lugs only
J = Plug-in Tap Box	20.00 ^⑤	na	Cover operable Vacu-Break Switch
K = XLVB Fusible	20.00 & 9.75 ^②	na	

Tip: Type C & E XPMs will install on all plug-in busway. Type F will not install on dual side plug-in busway.

Siemens XJ-L™ HD Bus Plugs and Power Modules

Use For Breaker Group = A, B, X^⑩

Prefix	Type	Enclosure	System Config.	Colour	Breaker Group	Ampere Rating or Breaker/Receptacle Arrangement ^{⑦⑧⑨}	Custom Features
BP	J	H	6	A	A	E D 4 6 0	N N
Bus Plug	XJ-L HD	A = 3 Circuit – XQ Series No Receptacle B = 3 Circuit – XQR Series Receptacle Provision C = 3 Circuit HD XPM E = 6 Circuit HD XPM F = 12 Circuit XPM ^③ G = XLEC ^{②③④⑤} H = XEC ^{③④⑤} J = Plug-in Tap Box ^{④⑤⑥⑦} K = XLVB Fusible ^{③④⑤⑥}	1 = 3Ø 2 = 3Ø + Internal Grd 3 = 3Ø + Isolated Grd 4 = 3Ø + Internal Grd + Isolated Grd 5 = 3Ø + Neutral 6 = 3Ø + Neutral + Internal Grd 7 = 3Ø + Neutral + Isolated Grd 8 = 3Ø + Neutral + Internal Grd + Isolated Grd 9 = 3Ø + 200% Neutral 0 = 3Ø + 200% Neutral + Internal Ground	A = Graphite G = ANSI 61 X = Other	A = Non-Mixed Factory Installed Breakers ^① B = Mixed Factory Installed Breakers E = Enclosure Only (no Breaker) ^{①⑩} X = Other / Fusible ^④	See Notes below for information	NN = None / NA XX = Other ^⑧

Notes:

- ① Use "A" or "E" for XLEC and XEC
- ② Available in System Configs: 1,2,5,6
- ③ Available in System Configs: 1,2,3,4,5,6,7,8,9
- ④ Available in System Configs: 1,2,5,6
- ⑤ Available in System Configs: 1,2,5,6
- ⑥ For non-breaker style plug use "X" for Breaker Grouping field. (Fusible & Plug-in Tap Box)
- ⑦ For Enclosure = C,E,F see Breaker / Receptacle Arrangement Schedule for Details
- ⑧ For XEC and XLEC Ampere Rating field use ED2xx, ED4xx,ED6xx where xx = 15 to 00 trip rating (100A max).
- ⑨ For XLVB Ampere Rating field use 02xxx for 240V & 06xxx for 600V where xxx = 030, 060, 100 ampere
- ⑩ For Plug-in Tap Box Ampere Rating field use PBxxx where xxx = 100, 200 ampere
- ⑪ Ampere Rating and Customer Features fields not required for Breaker Group = "E". Leave fields blank.
- ⑫ Custom metering available upon request.
- ⑬ Requires two plug-in openings for 9.75 spacing.
- ⑭ Installs on 9.75 single side plug-in spacing only.
- ⑮ 200A Tap Box installs on 20.0 dual side plug-in spacing only. Requires two plug-in openings.

XJ-L™ HD Busway Systems

Bus Plugs

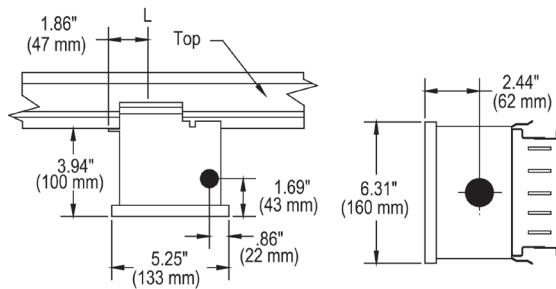
XQ and XQR Series

XQ and XQR bus plugs accept QP (plug-in) or BQ (bolt-on) circuit breakers. The plugs feature knockouts to facilitate quick installation. The XQR has added wiring space to allow receptacle installation.

XQ Series Bus plug (60A max)

Breaker Type	Volts	No. of Spaces	Catalogue Number	Model Number ^①	Catalogue Number	Model Number ^①
QP and BQ	120/240	3	XQ35	BPJA1GE	XQ45	BPJA5GE

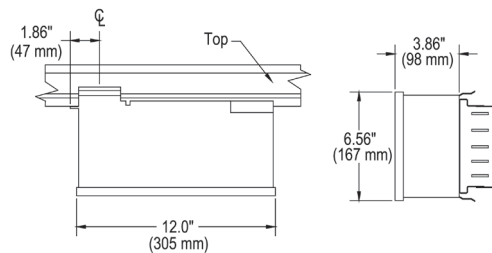
Enclosure Only



XQR Series Bus plug (60A max)

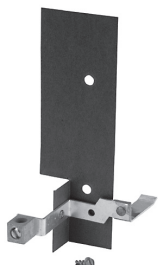
Breaker Type	Volts	No. of Spaces	Catalogue Number	Model Number ^①	Catalogue Number	Model Number ^①
QP and BQ	120/240	3	XQ35R	BPJB1GE	XQ45R	BPJB5GE

Enclosure Only



Accessories for XQ and XQR Series

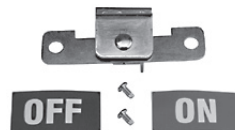
XEQH	Floor Operating Handle (not for 1 pole or 2 pole breakers)
W62890	Bonded Ground Kit
W68101	Isolated Ground Kit



W68101



W62890



XEQH

© Model Numbers Effective Aug 2011

Busway Power Distribution

XL-X[®], XL-U[®] and BD[®] Plug-In Units

Selection

XQ Circuit Breaker Enclosures

Front Operable

Breaker Type	AC Volts	Ampere Rating	3 Phase, 3 Wire			3 Phase, 4 Wire		
			Enclosure Only ^②			Enclosure Only ^②		
			Catalogue Number ^② XL-X	Catalogue Number ^② XL-U	Catalogue Number BD Plug-In ^{①②③}	Catalogue Number ^② XL-X	Catalogue Number ^② XL-U	Catalogue Number BD Plug-In ^{①②③④}
ED2	240	15-60 70-100	REC3100G	UEC3100G	BEC3100	REC4100G	UEC4100G	BEC4100
ED4	480	15-60 70-100						
ED6	600	15-60 70-100						
FD6, FXD		70-250	RFC3250G	UFC3250G	BFC3250	RFC4250G	UFC4250G	BFC4250
JXD6		200-400	RJC3400G	UJC3400G	BJC3400	RJC4400G	UJC4400G	BJC4400
JXD2	240	200-400						
JD6	600	200-400						
LXD6		450-600 ^③	RLC3600G	ULC3600G	BLC3600	RLC4600G	ULC4600G	BLC4600
LD6		250-600 ^③						
MD6	600	400-600 ^③ 700-800 ^③	RMC3800G	UMC3800G	BMC3800	RMC4800G	UMC4800G	BMC4800

I-T-E Fusible Vacu-Break[®] Switch Plugs Floor-Operable with Line Terminal Protection

Volts	Ampere Rating	3 Phase, 3 Wire					3 Phase, 4 Wire				
		Horsepower Ratings		Catalogue		Catalogue Number	Horsepower Ratings, AC		Catalogue Number		Catalogue Number
		Standard (NEC)	Maximum (Time Delay)	XL-X	XL-U	BD ^⑤ Plug-In ^{①⑤}	Standard (NEC)	Maximum (Time Delay)	XL-X	XL-U	BD ^⑤ Plug-In ^{①⑤}
250 AC or 250 DC	30	3	7½	RV321G	UV321G	BOS14321	3	7½	RV421G	UV421G	BOS16421
	60	7½	15	RV322G	UV322G	BOS14322	7½	15	RV422G	UV422G	BOS16422
	100	15	30	RV323G	UV323G	BOS14323	15	30	RV423G	UV423G	BOS16423
600 AC	200	25	60	RV324G	UV324G	BOS14324	25	60	RV424G	UV424G	BOS16424
	400	50	125	RV325G	UV325G	BOS14325	50	125	RV425G	UV425G	BOS16425
	600 ^③	75	200	RV326G	UV326G	BOS14326	75	200	RV426G	UV426G	BOS16426
600 AC	30	7½	20	RV361G	UV361G	BOS14351	5	15	RV461G	UV461G	BOS16451
	60	15	50	RV362G	UV362G	BOS14352	15	30	RV462G	UV462G	BOS16452
	100	30	75	RV363G	UV363G	BOS14353	25	60	RV463G	UV463G	BOS16453
600 AC	200	60	150	RV364G	UV364G	BOS14354	50	125	RV464G	UV464G	BOS16454
	400	125	350	RV365G	UV365G	BOS14355	100	150	RV465G	UV465G	BOS16455
	600 ^③	200	500	RV366G	UV366G	BOS14356	150	400	RV466G	UV466G	BOS16456

Fuse Adaptor Kits — RV and UV 240V AC/250V DC

Amperage	Class "J" Catalogue Number	Class "T" Catalogue Number	Class "R" Catalogue Number
30	②	②	W56626
60	②	②	W56628
100	②	TFAK32	W55365
200	②	TFAK42	W55366
400	②	TFAK52	W55367
600	W49813	TFAK62	W55368

600V

30	②	②	W56627
60	②	②	W56629
100	②	TFAK35	W55365
200	②	TFAK45	W55366
400	②	TFAK55	W55367
600	W49813	TFAK65	W55368

Field Addable Ground Kits for BD Bus Plugs

Fusible

Ampere Rating	Catalogue Number
30-60	W63231
100	W63232
200	W63233
400	W63234
600	W63234

Circuit Breaker

BEC	W63553
BFC	W63554
BJC	W63238
BLC	W63238
BMC	W73534

Note: These are for use on busway with internal ground bus manufactured after March, 1986. For ground kits prior to this date, consult local sales office.

Fuse Adaptor Kits — BOS 240V AC/250V DC

Amperage	Class "J" Catalogue Number	Class "T" Catalogue Number	Class "R" Catalogue Number
30	②	②	W56626
60	②	②	W56628
100	W49827	TFAK32	W55365
200	W49819	TFAK42	W55366
400	W49814	TFAK52	W55367
600	W49813	TFAK62	W55368

600V

30	W49832	②	W56627
60	W49830	②	W56629
100	W49828	TFAK35	W55365
200	W49818	TFAK45	W55366
400	W49816	TFAK55	W55367
600	W49815	TFAK65	W55368

① Grounding Finger — See table.

② Enclosures available from stock. When ordering circuit breaker bus plugs complete with breaker, factory-installed, allow time for assembly and SPECIFY enclosure frame size, phase and ampere rating.
Example: One UEC3100—ED4—3P—70A—factory assembled For factory installed breakers, add enclosure and breaker prices together and add 20% to the total.

③ Bus plugs 400A and smaller require one plug-in opening. 600-800A require two plug-in openings.

④ To order 400A fusible plug with increased wire space, add "S" to the catalog number.

Example: UV365S, UV465S.

⑤ Channel Spacers — Must be used with bus plugs mounted on 600, 800, or 1000 ampere ABD busway or on 800 or 1000 ampere BDP busway. Catalog Number W37940.

⑥ When BD busway capacity exceeds 400A for aluminum or 600A for copper, capacity must be specified to obtain proper number and arrangement of neutral fingers.

⑦ Not required.

Busway Power Distribution

XL-X[®], XL-U[®] and BD[®] Plug-In Units

Selection

Shipping Weights — Pounds

For Circuit Breaker Bus Plugs Only

Breaker Type	Ampere Rating	3 Phase, 3 Wire				3 Phase, 4 Wire			
		Enclosure Only		Complete Assembly		Enclosure Only		Complete Assembly	
		XL-U XL-X	BD, LO-X	XL-U XL-X	BD, LO-X	XL-U XL-X	BD, LO-X	XL-U XL-X	BD, LO-X
ED2, ED4, ED6	15–100	12	14	13	9	13	15	14	10
FD6	70–250	1	27	51	37	45	28	55	38
JXD6	200–400	90	35	102	57	95	36	107	58
JXD2	200–400	90	35	102	57	95	36	107	58
JD6	200–400	95	39	117	61	100	40	122	62
LXD6	450–600	140	39	175	691	147	40	182	62
LD6	450–600	140	39	175	61	147	40	182	62
MD6	400–800	140	79	175	114	147	80	182	115

For Fusible Switch Bus Plugs Only

Switch Ampere Rating	3 Phase, 3 Wire 3 Phase, 4 Wire			
	XL-X XL-U	BD, LO-X	XL-X XL-U	BD, LO-X
	Prefix RV, UV, XLVB	Prefix BOS	Prefix RV, UV, XLVB	Prefix BOS
30,60	17	15	19	12
100	17	18	19	18
200	36	34	38	36
400	165	111	160	112
600	165	111	170	112

Special Bus Plugs

Description	Catalogue Number		
	XL-U	XL-X	BD, LO-X
Ground Detector and Potentializer— For 2- or 3-pole 240 and 480 Volt service.	UPGR314G	RPCR314G	PGR6314

Accessories

Description	Catalogue Number
Channel Spacers—Must be used with Bus Plugs or Plug-in Branch-Run Adaptors mounted on 600-, 800- or 1000-ampere ABD Busway or on 800- or 1000-ampere BDP Busway. 4 per package	W37940
“ON-OFF” Bus Plug Stickers – Pressure sensitive, per pair.	W47185

©Minimum order quantity of 5 per catalog number.
©480V ratings.

For inches / millimeters conversion, see Application Data Section.

Busway Power Distribution

XL-X[®], XL-U[®] and BD[®] Cubicles

Selection

Cubicles^①

Molded Case Circuit Breakers (For Use With All Types of Busway)

Breaker Type	Ampere Rating	With Breaker	
		3 Phase 600V AC	3 Phase, 4 Wire 120/280V AC 277/480V AC

ET Heavy Duty

Breaker Type	Ampere Rating	Consult Sales
JD6	200–400	
MD6	400–600	
	700–800	
PD6	800	
	1000	
	1200	
	1400	
RD6	1600	
	1800	
	2000	

Current-Limiting

Breaker Type	Ampere Rating	Consult Sales
CJD6	150–225	
	250–400	
CLD6	450–600	
CMD6	400–800	
CPD6	800	
	1000	
	1200	
	1400	
CRD6	1600	
	1800	
	2000	

Note: Additional molded case circuit breakers may be used.

Fusible Switch – Vacu-Break[®]

Ampere Rating	3 Phase		3 Phase, 4 Wire	
	250 Volts AC	600 Volts AC	120/208 Volts AC	277/480 Volts AC
	Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
200	FC3022	FC3025	FC4022	FC4025
400	FC3042	FC3045	FC4042	FC4045
600	FC3062	FC3065	FC4062	FC4065
800	—	FC3085	—	FC4085
1200	—	FC3125	—	FC4125

Bolted Pressure Switches

Ampere Rating	480 Volt		600 Volt	
	3-Pole	4-Pole	3-Pole	4-Pole
800				
1200				
1600				
2000				
2500				
3000				
4000				

No fuses supplied with fusible cubicles.

① Cubicle pricing includes labour and material for:
 1. Single cubicle frame section complete with required busway openings.
 2. Circuit breaker or fusible switch.
 3. Mounting of circuit breaker or fusible switch and line-side connections.

Figure busway footage through cubicle to compensate for load-size connections.

For other options, consult local sales office.

② For electrically operated, (specify control voltage).

Notes
