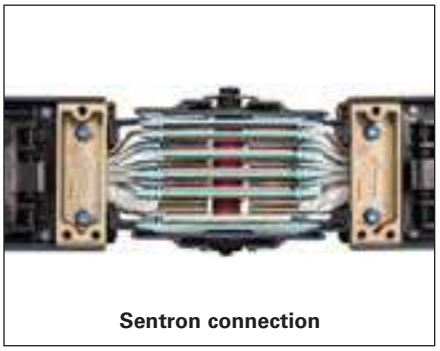


Sentron connection



XJ-L



Bus plugs

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Pricing Notes

A. Footage Pricing

1. Sentron and XL-U base pricing is listed on a per foot charge. When calculating the footage charge, fractions are rounded to the larger whole number (i.e., a linear run totaling 66'3" would be priced at 67 feet.
2. BD and XJ-L HD 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 with an angle 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 are required, consult factory for pricing. Sentron Switchboards can be assembled with the Busway Flanged End pre-installed, eliminating the labor 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 HD. 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 gray. For other than standard color, add 20% and consult factory for availability. XJL HD Busway is offered in ASA#61 Gray and Graphite Gray.

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 BD, XL-U and XL-X busways are priced "enclosure only". XJ-L HD may or may not have a circuit breaker and receptacle installed, depending upon the bus plug type.

O. Fusible Type Bus Plugs do not include fuses. Adapter kits for Class R, T & J fuses are available for field installation.

P. Cubicle list prices include labor 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. Expansion Section

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

Busway Systems Overview

Busway Selector Chart (100-6500 Ampere)

I-T-E (previously 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 400Hz①		2W	–	–	–	–
		1Ø3W	–	–	√	–
		3Ø3W	√	√	√	√
		3Ø4W 100% N	√	√	√	√
		3Ø4W 200% N	√		√	
Voltage		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	√	√	√	√

① Consult factory for information.

Sentron® Busway Systems – Reference Information

Sentron Busway 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. Thanks to an innovative design, you benefit from labor-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 labor-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 gray 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/in^2 M-Rated Copper, Aluminum (58% conductivity) and 750A/in^2 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 (such as hospitals or high tech).

Plating

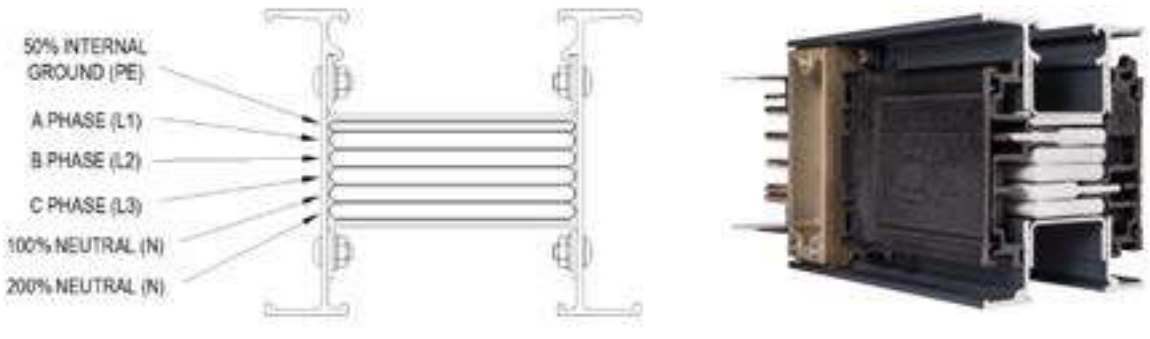
All bus bars are electroplated with tin. This unique tin plating provides excellent conductivity and prevents impurities from attaching to the bars. Optional silver plating is also available.

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 ensure 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

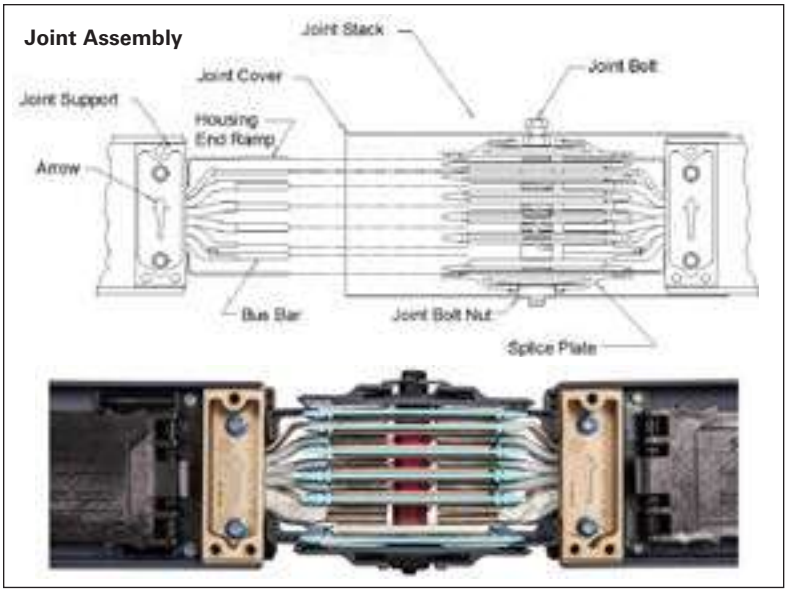
All Sentron Busway products meet the following standards:

UL 857
NEMA BU1
CSA C22.2
IEC 60529 (2004)
BS EN 60529
BS EN 60439-1, 60439-2
UL 1479
DIN 4102 Parts 9&12
BS 6387 Parts 11.1 and 11.2

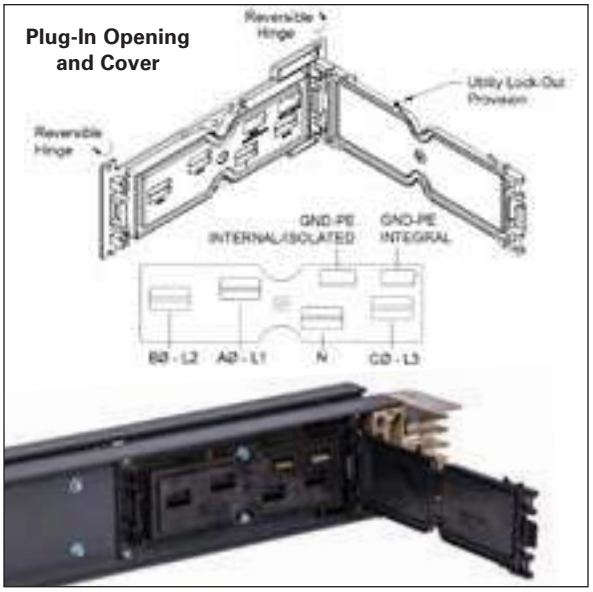
Labor Savings

Using Sentron Busway instead of cable and conduit can create savings of up to 20 - 30% on total installed costs. Sentron busway is lightweight, compact and takes half the time to install as cable and conduit. Siemens Busway Systems Cable Conversion Program will show you side by side comparisons of busway vs. cable/ conduit. For more information, visit our web site at www.sea.siemens.com.

Joint Assembly



Plug-In Opening and Cover



Levels of Protection Description

Code	Description	Sentron Busway		Sentron Bus Plugs
		Feeder	Plug-In	
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**	•		

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
04 = 400A
06 = 600A
08 = 800A
10 = 1000A
12 = 1200A
13 = 1350A
16 = 1600A
20 = 2000A
25 = 2500A
30 = 3000A
32 = 3200A
40 = 4000A
50 = 5000A①

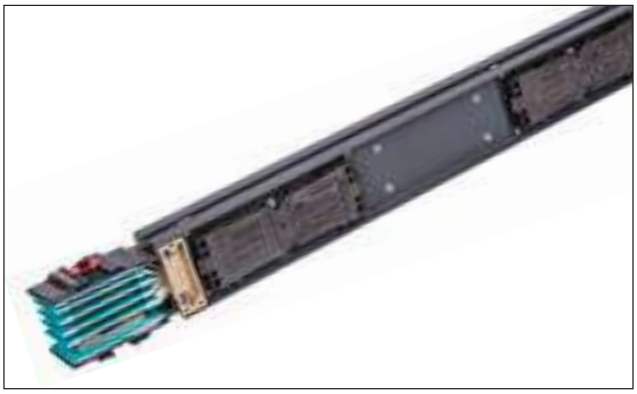
Bus Bar Material
C = Copper
M = 1000 Amps/In² Copper
A = Aluminum
L = 750 Amps/In² Aluminum

Ground
1 = Integral (Housing)
2 = Internal Bus Bar②
3 = Isolated Ground②

IP Rating
0 = IP40⑥
4 = IP55⑥
6 = IP66③⑦⑧
9 = NEMA 3R④⑦⑧

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)

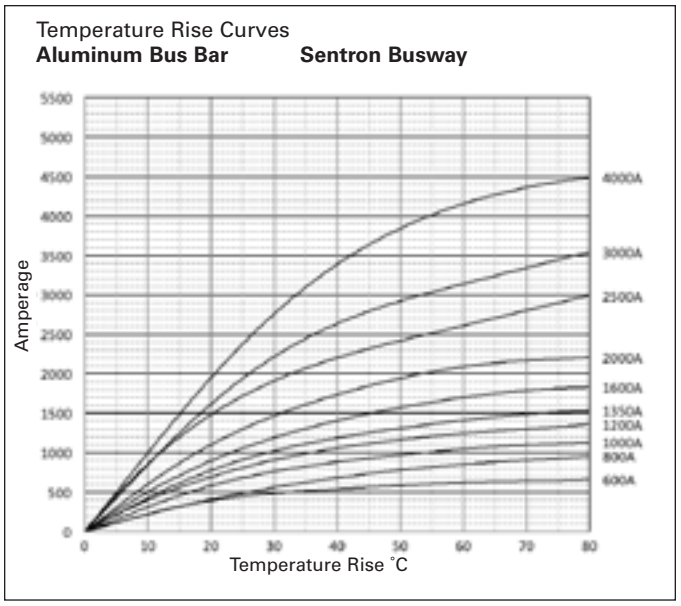
• Catalog Numbers for Hangers can be found on page 13-43.

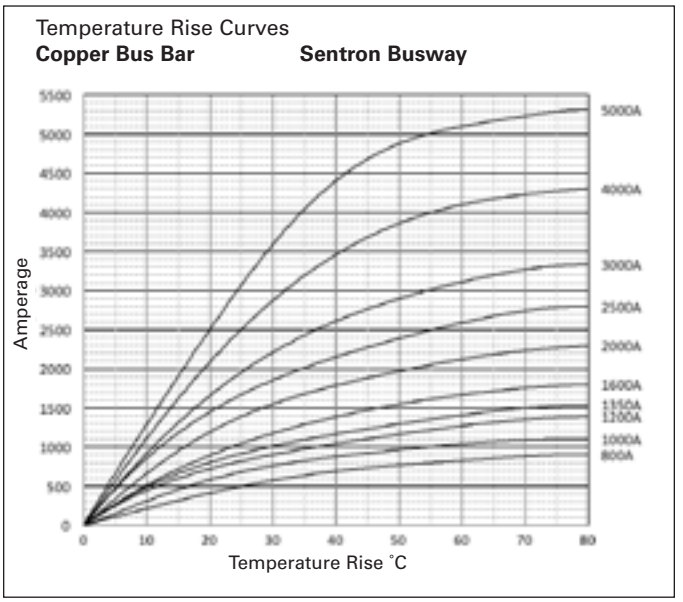


Suffix part of Catalogue Numbers

P	L	0	6

Feeder	**L**ength in Inches, ex.: 2'3" = 027 Feeder lengths available from 2'0" (024 Inches) up to 10'0" (120 inches)		
Plug-in	**L**	**L**ength	**04** = 4'0" **06** = 6'0" **08** = 8'0" **10** = 10'0"
One-sided plug-in (Riser)	**I**	**L**ength	**04** = 4'0" **06** = 6'0" **08** = 8'0" **10** = 10'0"
Elbows	**S** = Stack⑧ **L** = 90° **O** = Odd degree angle⑤	**E**dge	**U**p **D**own
		Flat	**R**ight **L**eft
Tees	**E**	**E**dge	**U**p **D**own
		Flat	**R**ight **L**eft
Offsets	**F**	**E**dge	**U**p **D**own
		Flat	**R**ight **L**eft
Combinations	**O**	Edge **U**p Edge **D**own Edge **U**p Edge **D**own	Flat **L**eft Flat **L**eft Flat **R**ight Flat **R**ight
		Flat **L**eft Flat **L**eft Flat **R**ight Flat **R**ight	Edge **U**p Edge **D**own Edge **U**p Edge **D**own
EX**p**ansion Fittings	P	**F**	**T**
Center Cable Tap Boxes	**T**	**B**	**S**tandard EX**p**anded
End Cable Tap Boxes	T	**V**ertical **H**orizontal	**S**tandard EX**p**anded
End Closers	**C**	**L**	**S**
Flan**G**e	**R**oof **W**all	**F**	**L**
Joint Stacks	**S**tandard **I**solation	**S**	**T**
Ser**V**ice Heads	**1** = 1-Phase **3** = 3-Phase **T** = Throat	**T**ranformer **U**tility	**H** **F**lorida Pwr/Light **H**ouston Pwr/Light **C**ommonwealth ED **P**acific Gas/Electric **D**etroit Edison **S**an Diego **S**eattle **O**ther
Reducers	**F**used **N**on-fused	**R** **R**	**F** **N**
Flanged End	**E** = Int'l Standard **R** = U.S. Standard **O** = Other	**N** **N**	**D** **D**
Transposition	**R**	**PG** = Phase & Ground **PO** = Phase only **GO** = Ground only	





R, X, Z and Ohms, Voltage Drop

Ampere Rating		Bus Bar Width	Ohms x 10^{-3} per 100 feet			Voltage Drop - Concentrated Loads, Line-to-Line per 100 feet at 100% Rated Load, 35°C Ambient①③⑦							
		x 0.25 in. (6.4mm) Thick	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-Rated③**												
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-Rated③**												
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

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:

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

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:

Vd = amps load x $\sqrt{3}(R\cos\theta + X\sin\theta)$ per 100 ft,
where $\cos\theta$ = 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.

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 Characterisitics under Fault Conditions Ohms x 10^{-3} per 100 ft					
									Internal Ground			Housing Ground		
A	L-Rated						% of UL Req	% of Phase Bar	R	X	Z	R	X	Z
225	—	1.75 (44.5)	1	0.08 (53.5)	0.22 (141.1)	2.30 (1485.1)	1333	253	4.872	9.037	10.267	5.797	12.963	14.200
400	—	1.75 (44.5)	1	0.17 (107.1)	0.22 (141.1)	2.30 (1485.1)	667	253	4.872	9.037	10.267	5.797	12.963	14.200
600	—	1.75 (44.5)	1	0.17 (107.1)	0.22 (141.1)	2.30 (1485.1)	667	253	4.872	9.037	10.267	5.797	12.963	14.200
800	400	2.38 (60.5)	1	0.17 (107.1)	0.30 (191.9)	2.40 (1550.1)	688	192	3.351	7.333	8.063	4.932	10.000	11.150
1000	600	3.25 (82.6)	1	0.20 (126.5)	0.41 (262.1)	2.54 (1639.9)	607	147	2.833	6.628	7.208	3.662	8.442	9.202
1200	800	4.38 (111.1)	1	0.23 (146.5)	0.55 (352.8)	2.72 (1756.6)	552	115	2.487	5.852	6.358	3.189	6.926	7.625
1350	1000	5.38 (136.5)	1	0.29 (189.7)	0.67 (433.5)	2.88 (1859.8)	446	94	2.182	5.115	5.561	2.713	5.883	6.478
1600	1200	6.50 (165.1)	1	0.29 (189.7)	0.81 (524.2)	3.06 (1975.4)	467	84	1.801	4.489	4.837	2.289	5.206	5.687
2000	1350,1600	8.75 (222.3)	1	0.35 (227.7)	1.09 (705.6)	3.42 (2207.7)	425	69	1.390	3.467	3.735	1.623	4.267	4.565
2500	2000	5.63 (142.9)	2	0.52 (332.3)	1.41 (907.3)	3.85 (2480.7)	320	59	1.145	2.955	3.169	1.526	3.837	4.129
3000	2500	6.75 (171.5)	2	0.59 (380.0)	1.69 (1088.7)	4.20 (2711.9)	301	53	0.954	2.683	2.848	1.221	3.635	3.835
3200	2000	7.50 (190.5)	2	0.81 (522.6)	1.88 (1209.7)	4.44 (2866.8)	229	51	0.894	2.493	2.648	1.144	3.428	3.614
4000	3000,3200	9.00 (228.6)	2	0.81 (522.6)	2.25 (1451.6)	4.92 (3176.5)	250	50	0.715	2.339	2.446	0.916	3.378	3.500
CU	M-Rated													
225	—	1.75 (44.5)	1	0.05 (33.5)	0.22 (141.1)	2.30 (1485.1)	2128	261	3.803	6.330	7.380	5.183	10.083	11.338
400	—	1.75 (44.5)	1	0.11 (67.7)	0.22 (141.1)	2.30 (1485.1)	1054	261	3.803	6.330	7.380	5.183	10.083	11.338
600	—	1.75 (44.5)	1	0.11 (67.7)	0.22 (141.1)	2.30 (1485.1)	1054	261	3.803	6.330	7.380	5.183	10.083	11.338
800	400	1.75 (44.5)	1	0.11 (67.7)	0.22 (141.1)	2.30 (1485.1)	1054	261	3.803	6.330	7.380	5.183	10.083	11.338
1000	—	2.25 (57.2)	1	0.13 (85.2)	0.28 (181.5)	2.38 (1536.7)	860	207	3.029	5.993	6.715	4.409	9.191	10.194
1200	600	2.88 (73.0)	1	0.18 (114.2)	0.36 (231.9)	2.48 (1601.8)	661	166	2.460	5.676	6.186	3.674	8.212	8.996
1350	800	3.50 (88.9)	1	0.24 (152.3)	0.44 (282.3)	2.58 (1665.8)	510	140	2.188	5.267	5.704	2.807	7.492	8.000
1600	1000	4.50 (114.3)	1	0.24 (152.3)	0.56 (362.9)	2.74 (1769.0)	534	113	1.893	4.323	4.719	2.756	6.880	7.411
2000	1200,1350	6.00 (152.4)	1	0.29 (189.7)	0.75 (483.9)	2.98 (1923.8)	457	90	1.476	3.181	3.507	2.205	6.032	6.422
—	1600	6.50 (165.1)	1	0.29 (189.7)	0.81 (524.2)	3.06 (1975.4)	467	84	1.801	4.489	4.837	2.289	5.206	5.687
2500	2000	8.50 (215.9)	1	0.35 (227.7)	1.06 (685.5)	3.38 (2181.9)	421	70	1.087	2.020	2.294	1.764	5.419	3.072
3000	—	4.75 (120.7)	2	0.41 (265.8)	1.19 (766.1)	3.56 (2290.0)	376	66	0.984	1.874	2.117	1.470	4.631	4.859
3200	—	5.50 (139.7)	2	0.59 (380.0)	1.38 (887.1)	3.80 (2453.9)	277	60	0.947	1.691	1.938	1.378	4.129	4.353
4000	2500,3000,3200	6.50 (165.1)	2	0.59 (380.0)	1.63 (1048.4)	4.12 (2660.3)	296	54	0.773	1.500	1.688	1.323	3.060	3.334
5000	4000	8.50 (215.9)	2	0.71 (456.1)	2.13 (1371.0)	4.76 (3073.2)	278	50	0.606	1.218	1.360	0.882	1.783	1.989

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

UL Short Circuit Ratings					UL Series Connected with Fuse		
		RMS Symmetrical (kA)			Maximum Fuse Size for 200kA RMS Symmetrical Rating		
Ampere	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, One-Sided Plug-In 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.

One-Sided Plug-In Sections

Sentron one-sided plug-in 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.

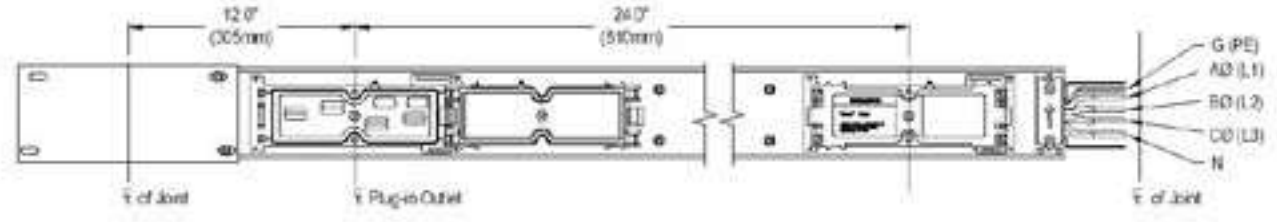
Plug-In Outlet Features

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.

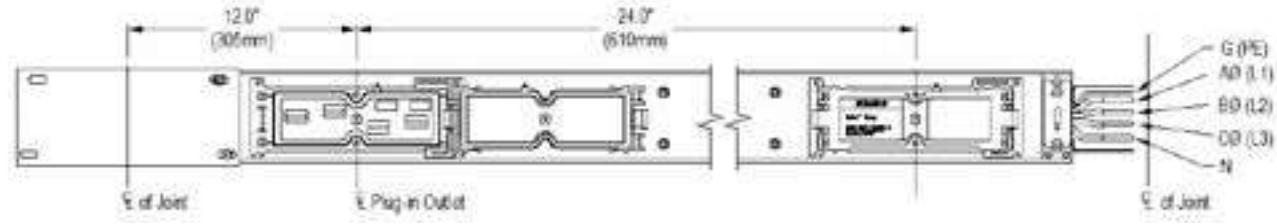
Feeder Sections

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 (International Outdoor). One joint stack assembly is provided with each feeder section.

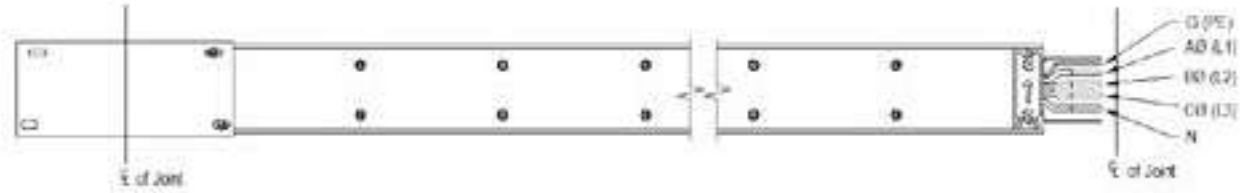
Standard Plug-In Section (Standard plug-in outlets on both sides on 24 in. centers)
Suffix PL04 (4 ft.), PL06 (6 ft.), PL08 (8 ft.), PL10 (10 ft.)



Standard One-Sided Plug-In 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.)

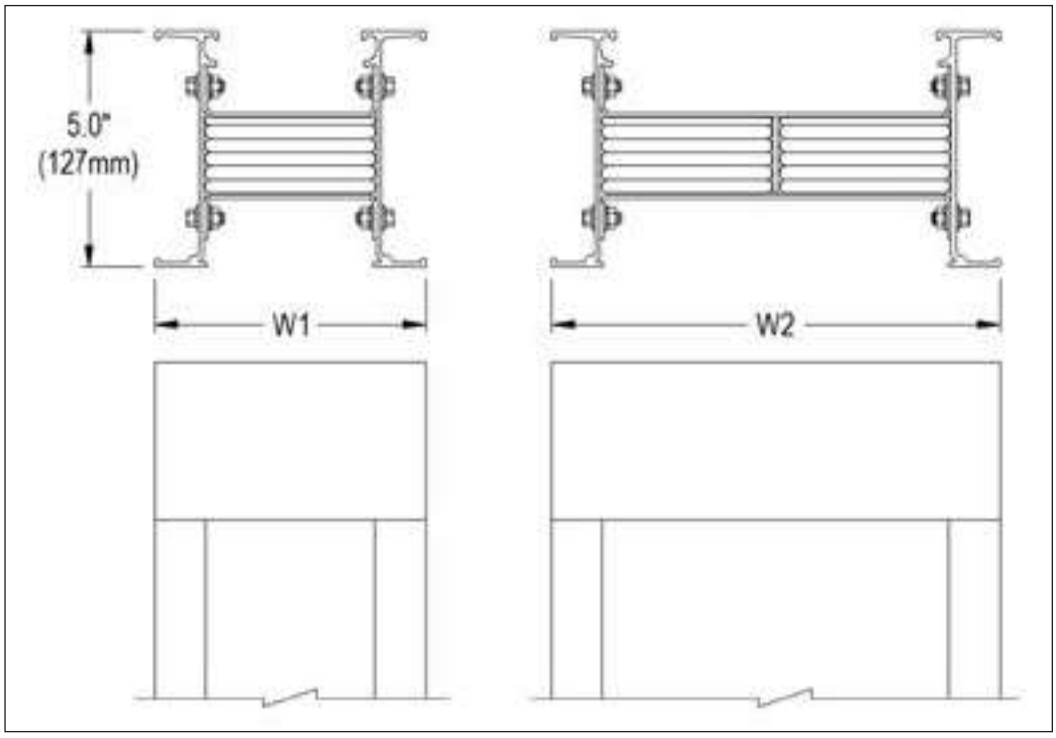


Standard Feeder Section
Suffix F024 - 120 (last 3 digits = length in Inches, 024=24 in., 120=120 in.)



Sentron Busway, 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	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)	18 (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" 8.7 (277)	13 (19)	14 (21)	15 (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)	64 (95)	72 (107)	80 (119)	89 (132)	97 (145)



Sentron® Straight Section Busway

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

Selection

Copper (225 - 5000Ampere)

Base Catalog 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 Catalog 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

	Base Catalog Number Suffix			
Busway Type	IP40	IP55	IP66	Nema 3R
Feeder	0F	4F	6F	9F
Plug-in	0P	4P	—	—
One-sided Plug-in	0R	4R	—	—

Elbows

Sentron Busway elbows provide a simple and 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.)		
Ampere Rating		Dimensions Inches (mm) "A"
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	1.25 (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)

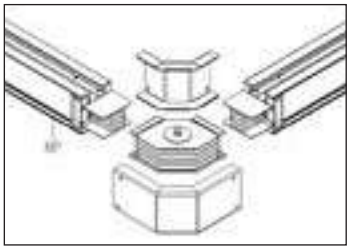
Note: Flatwise elbow stacks can be ordered as either right-hand (ESFR) or left-hand (ESFL) to follow the same nomenclature as an elbow section. The construction is identical and interchangeable.

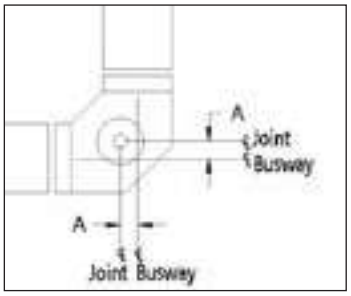
Flatwise Elbow Stacks

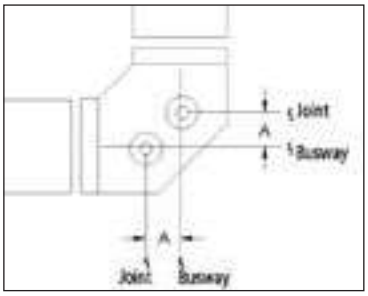
Flatwise elbow stacks are used for left and right directional changes. When the busway system is mounted flatwise in the horizontal plane (bus bars run parallel to the floor).

Flat

Suffix ESFR/ESFL





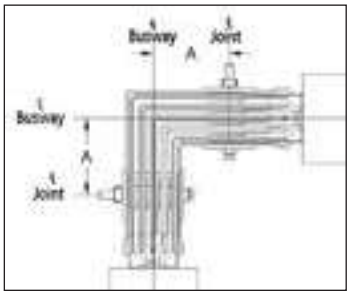


Edgewise Elbow Stacks, Dimensions (standard/min.)		
Ampere Rating		Dimensions Inches (mm) "A"
AL	**L-Rated**	
225	—	4.25 (108)
400	—	4.25 (108)
600	—	4.25 (108)
800	400	4.25 (108)
1000	600	4.25 (108)
1200	800	4.25 (108)
1350	1000	4.25 (108)
1600	1200	4.25 (108)
2000	1350,1600	4.25 (108)
2500	2000	4.25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

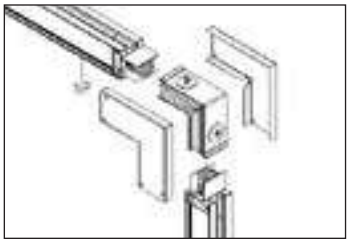
Edgewise Elbow Stacks

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.



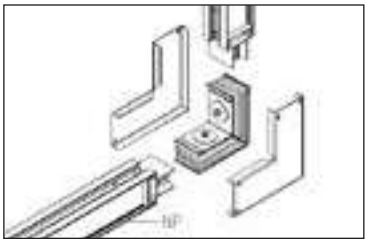
Edge Down

Suffix ESED



Edge Up

Suffix ESEU



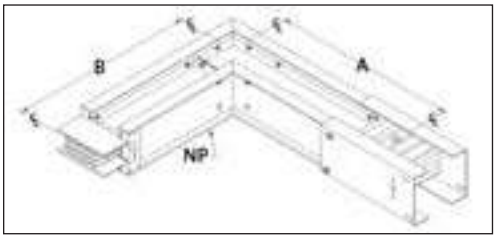
Flatwise Elbow Sections, Dimensions (standard/min.)			
Ampere Rating		Dimensions Inches (mm) "A"	"B"
AL	**L-Rated**		
225	—	12 (305)	12 (305)
400	—	12 (305)	12 (305)
600	—	12 (305)	12 (305)
800	400	12 (305)	12 (305)
1000	600	12(305)	12 (305)
1200	800	12 (305)	12 (305)
1350	1000	12 (305)	12 (305)
1600	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.

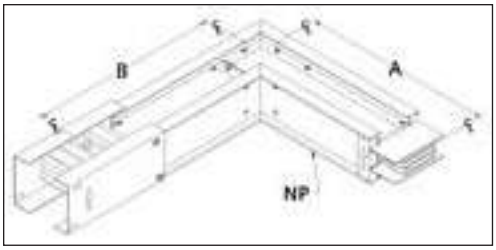
Flat Left

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)

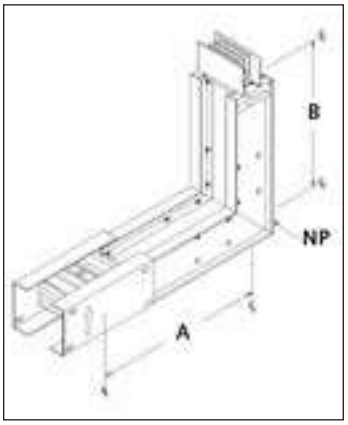
Note : Odd angle elbow flatwise and edgewise elbow sections are available for angles 95° - 175° in 5° increments.

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.

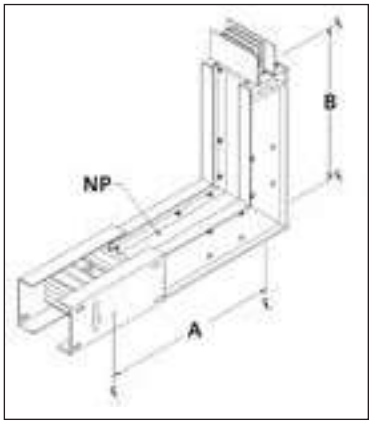
Edge Up

Suffix ELEU



Edge Down

Suffix ELED



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.

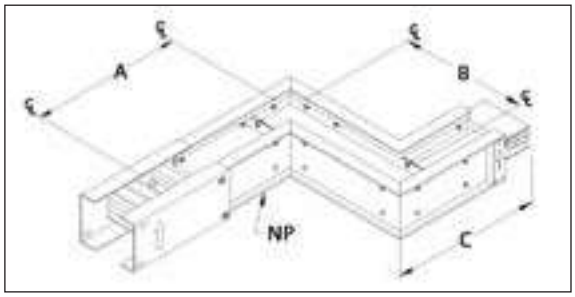
Flatwise Offsets, Dimensions (standard/min.)				
Ampere Rating		Dimensions Inches (mm) *"A"	"B"	"C"
AL	**L-Rated**			
225	—	12 (305)	5 (127)	12 (305)
400	—	12 (305)	5 (127)	12 (305)
600	—	12 (305)	5 (127)	12 (305)
800	400	12 (305)	5 (127)	12 (305)
1000	600	12 (305)	5 (127)	12 (305)
1200	800	12 (305)	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	10 (254)	6 (152)	10 (254)
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.

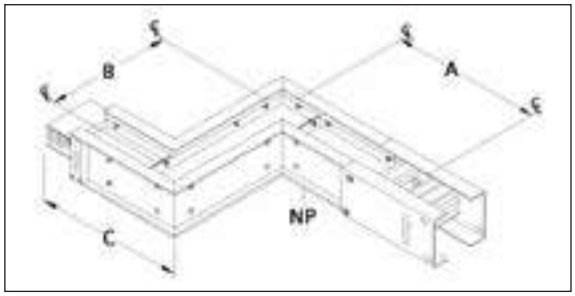
Flat Right

Suffix OFFR



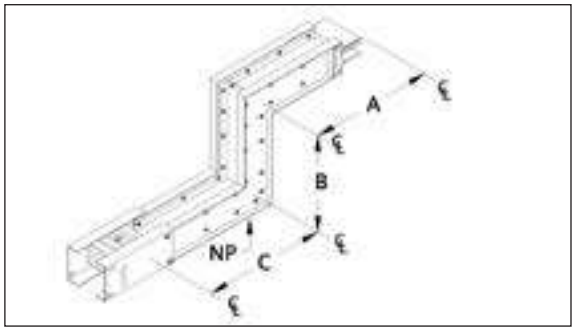
Flat Left

Suffix OFFL



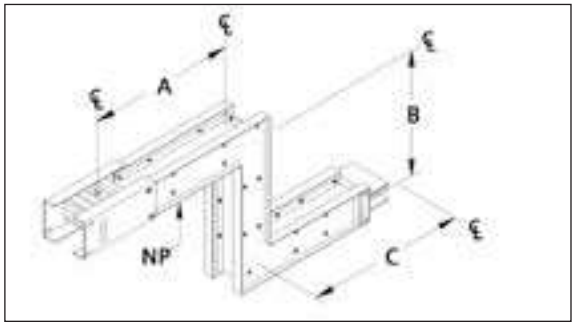
Edge Up

Suffix OFEU



Edge Down

Suffix OFED



Sentron® Busway Systems – Reference Information

Combinations

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.

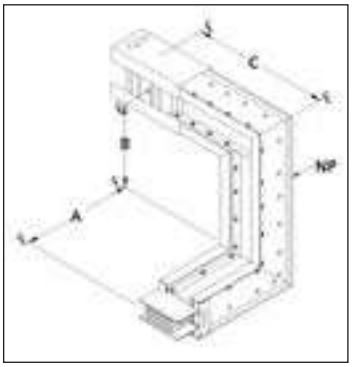
See drawings for minimum dimensions. Consult Busway Order Service for information on custom lengths.

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.

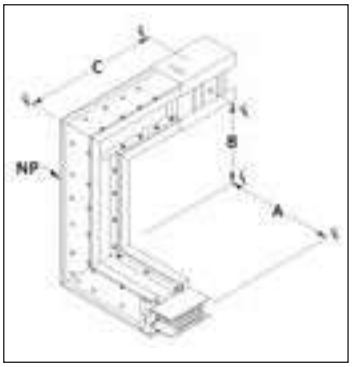
Flat Right - Edge Up

Suffix CORU



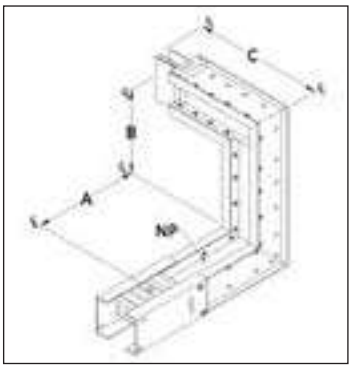
Flat Left - Edge Up

Suffix COLU



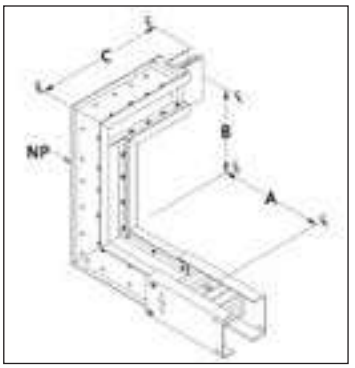
Edge Up - Flat Left

Suffix COUL



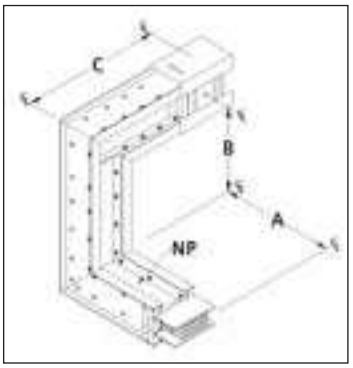
Edge Up - Flat Right

Suffix COUR



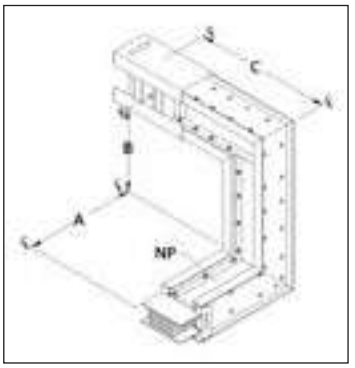
Flat Right - Edge Down

Suffix CORD



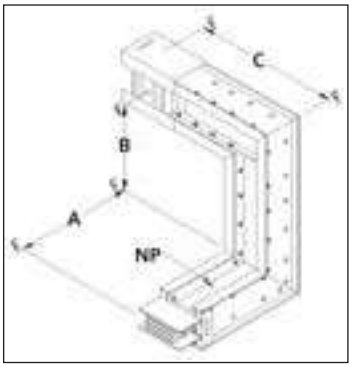
Flat Left - Edge Down

Suffix COLD



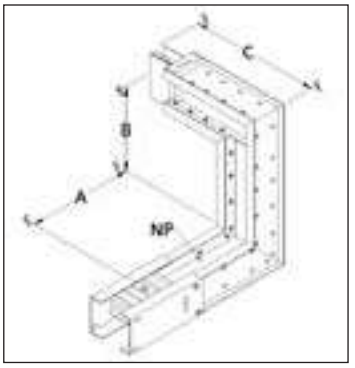
Edge Down - Flat Left

Suffix CODL



Edge Down - Flat Right

Suffix CODR



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.

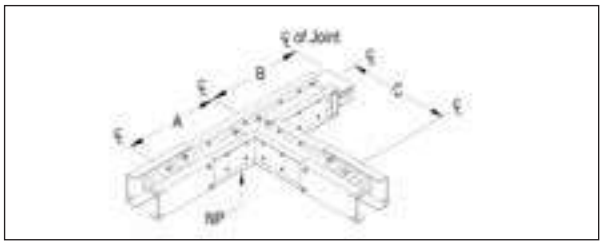
Flatwise Tees, Dimensions (standard/min.)		
Ampere Rating		Dimensions Inches (mm) "A", "B", "C"
AL	**L-Rated**	
225	—	12 (305)
400	—	12 (305)
600	—	12 (305)
800	400	12 (305)
1000	600	12 (305)
1200	800	12 (305)
1350	1000	12 (305)
1600	1200	18 (457)
2000	1350,1600	18 (457)
2500	2000	18 (457)
3000	2500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

Flatwise Tees

Flatwise tees are used to create left and right branches.

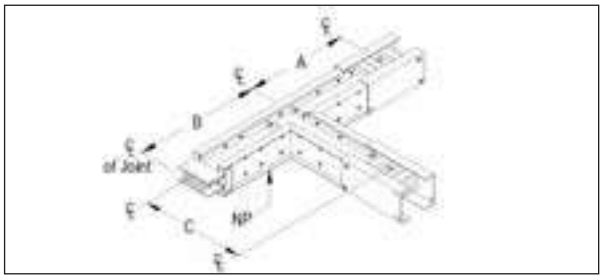
Flat Right

Suffix TEFR



Flat Left

Suffix TEFL



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)

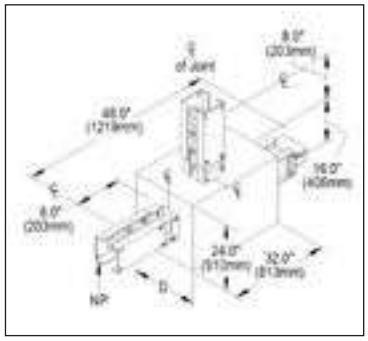
① 12.0" (305mm) For Isolated Ground.

Edgewise Tees

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

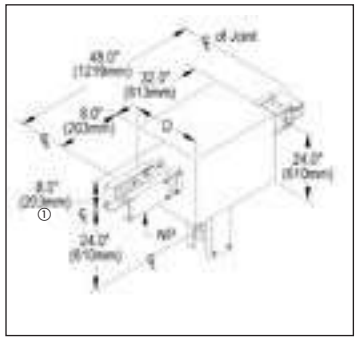
Edge Up

Suffix TEEU



Edge Down

Suffix TEED



Sentron® Busway Systems – Reference Information

End Tap Boxes

Selection

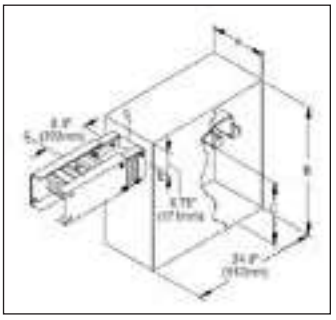
End tap boxes are non-fusible devices used to connect cable and conduit to the end of a busway run or where busway runs connect without the need for over-current protection. End tap boxes may be installed at the end or beginning of a run. Vertical end tap boxes and horizontal end tap boxes can be installed 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) "A"	"B" Std.	"B" Ext.	Wire Bend Space "C" Std.	"C" Ext.	Cable Lugs Per Phase & Neutral Qty.	Size	Ground Lugs①
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)

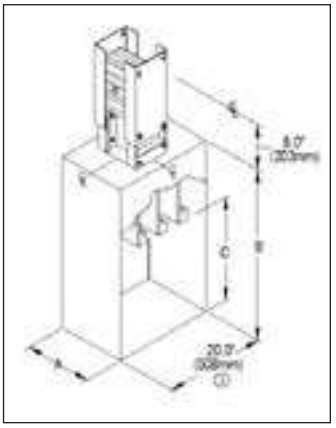


Standard and Extended Vertical End Tap Boxes, Dimensions

Ampere Rating		Dimensions Inches (mm) "A"	"B" Std.	"B" Ext.	Wire Bend Space "C" Std.	"C" Ext.	Cable Lugs Per Phase & Neutral Qty.	Size	Ground Lugs①
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. ③24.0" (610mm) for isolated ground.

Center Tap Boxes

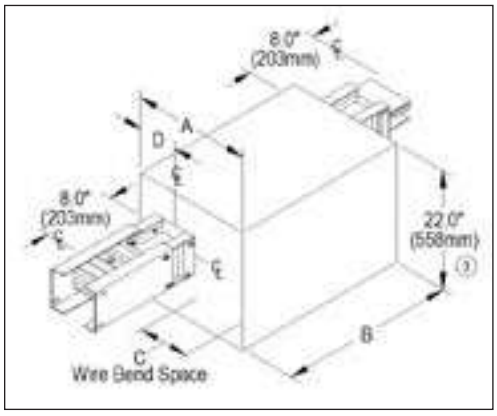
Center tap boxes are non-fusible devices utilized to feed to or take off power from the busway run. When loads served by the busway run do not require over-current protection, center tap boxes may be used. If the application requires additional wiring bending space, extended center tap boxes are available. 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 Lugs①
		"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)



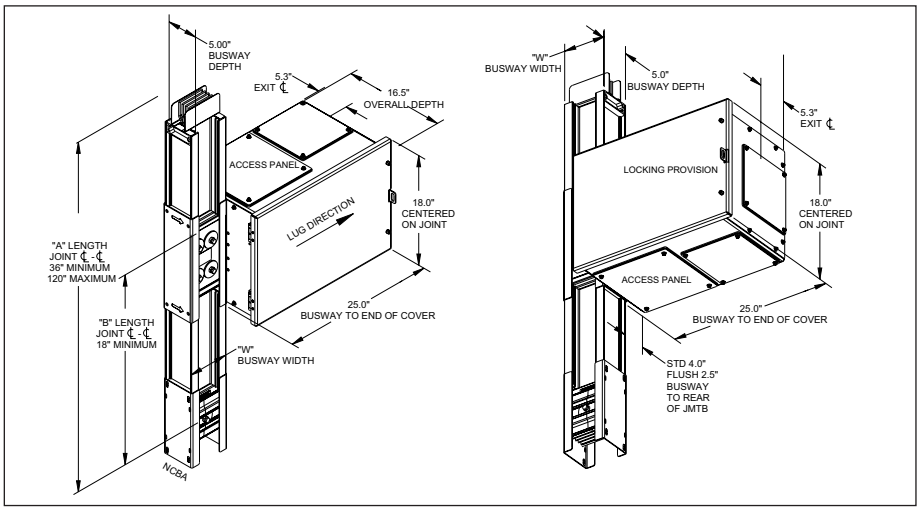
① #6 AWG -350 kcmil, Cu/Al.
② #4 AWG -600 kcmil, Cu/Al.
③ 24.0" (610mm) for isolated ground.

Joint Mounted Tap Boxes

Selection

The joint mounted tap box (JMTB) is used to tap off power via the busway joint. This device does not provide over-current protection and therefore, must be installed in compliance with NEC 240.21(B)①. The small footprint is ideal for space limited applications. The JMTB is compatible with Power Mod, Lighting Panels, Power Panels, and Switchboards 1200A and lower.

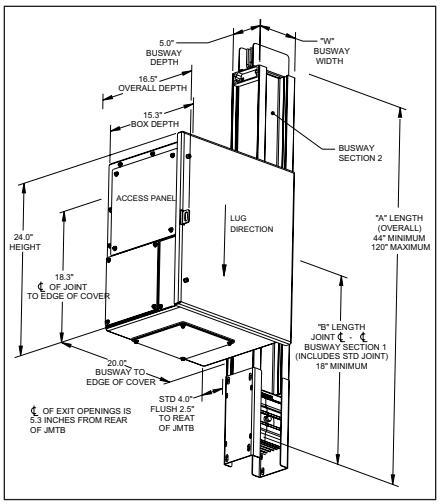
Horizontal Orientation JMTB



Product Features

- Lug Orientation: Vertical or Horizontal
- Maximum Voltage: 600V
- Maximum UL Short Circuit Rating: 150kA②
- Amperage Range: 100- 1200A
- Lug Type: Compression Only

Vertical Orientation JMTB



Configuration Types

Given a vertical bus run, the JMTB can be configured such that it is on the Left, Right, or Both sides. The JMTB is shipped from the factory installed on the busway.

When installed on vertical busway, the lug orientation matches the orientation of the tap box. If using the horizontal JMTB the lug orientation will be left/right, if vertical JMTB it will be up/down.

The standard JMTB extends 4" beyond the rear plane of the busway however a flush mount variation is available extending 2.5" from the rear of the busway.

Compression Lugs

Wire size	Straight Lug Catalogue Number	Stacking Lug Catalogue Number
1/0	**AL1/0-NTN**	**ASL1/0-NTN**
2/0	**AL2/0-NTN**	**ASL2/0-NTN**
3/0	**AL3/0-NTN**	**ASL3/0-NTN**
4/0	**AL4/0-NTN**	**ASL4/0-NTN**
250	**AL250-NTN**	**ASL250-NTN**
300	**AL300-NTN**	**ASL300-NTN**
350	**AL350-NTN**	**ASL350-NTN**

Compression Lugs

The JMTB requires compression lugs, which aid in minimizing product size. The JMTB is shipped with UL listed crimp type compression lugs, which are sized to the amperage of the load side device.

Should additional lugs be required, please reference the table below. The JMTB utilizes general purpose aluminum 2 hole NEMA lugs, compatible with Aluminum and Copper wire. Homac AL-N series or equivalent are recommended.③

If housing ground is selected the JMTB will contain a standard 4-hole NEMA pattern on a dedicated ground bar. If internal/isolated ground is selected, two ground bars will be included, each with the standard NEMA 4-hole pattern.

① This device requires compliance with NEC 240.21(B), see 2017 NEC, commonly referred to as the 10ft feeder tap rule. Feeder tap conductors cannot be over 10ft without overcurrent protection. Main circuit protection device is required downsteam. Please reference the NEC before using this device.

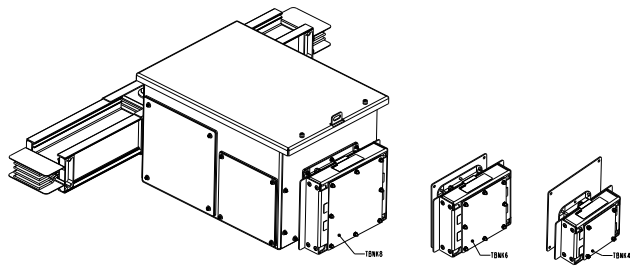
② For series ratings reference the short circuit table in the Technical Data section.

③ Replacement lugs to be supplied by others.

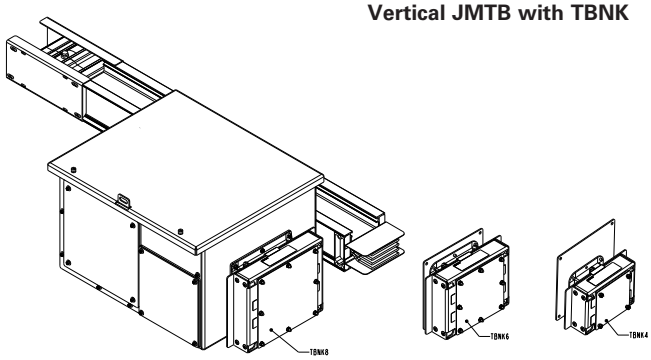
TBNK flexible fittings

TBNK flexible fittings are a factory installed series of wireway couplings for use with Sentron Joint Mounted Tap Boxes (JMTB's). TBNK fittings provide a nominal 4.25" long flexible wireway for coupling the JMTB and rigidly mounted downstream equipment. TBNK fittings allow for expansion and contraction of the Busway absorbing up to an inch of movement. Available in 4, 6, and 8-inch sizes, TBNK fittings are suitable for a wide range of equipment amperages and cabling requirements. TBNK fittings if desired should be selected when ordering Sentron JMTB's.

Horizontal JMTB with TBNK



Vertical JMTB with TBNK



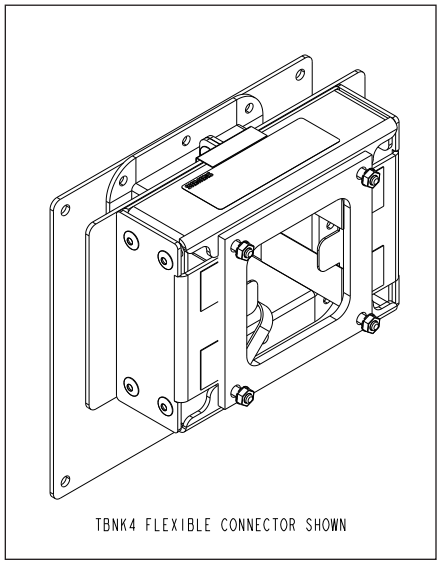
Installation and Grounding

TBNK flexible fittings must be field installed onto downstream equipment. JMTB's ordered with TBNK fittings include Installation Instructions and a template for making the required cut-out in the downstream equipment enclosure. Location of equipment, cut out and cabling must comply with applicable standards including NEC, Local Building Codes and any other authorities having jurisdiction. Consult codes in advance to assure compliance. The JMTB is shipped from the factory with a braided copper ground cable riveted onto the TBNK. During installation, the opposite end of the ground cable must be connected to the enclosure of the downstream equipment. The Installation Instructions provide details of the ground cable installation procedure.

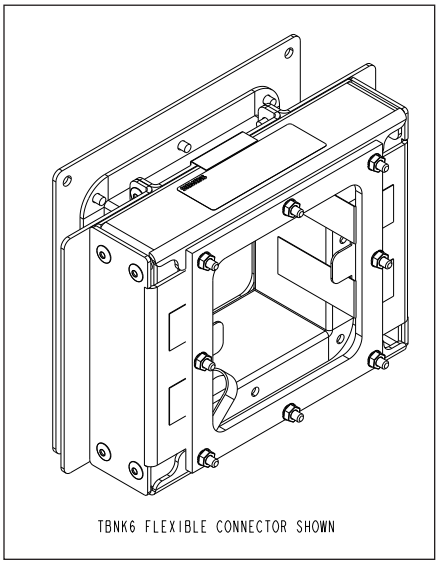
TBNK flexible fittings

Catalogue Number	Cutout Size	Wireway Size	Maximum Cable Size
TBNK4	3.8"x 3.8"	4"x 4" (16 sq. inch)	900MCM
TBNK6	5.8"x 5.8"	6"x 6" (36 sq. inch)	500MCM
TBNK8	7.8"x 7.8"	8"x 8" (64 sq. inch)	4/0

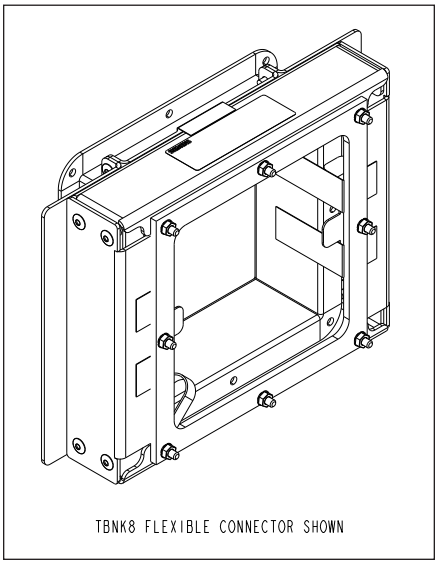
TBNK4, TBNK6 and TBNK8



TBNK4 FLEXIBLE CONNECTOR SHOWN

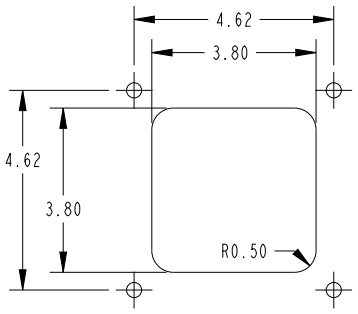


TBNK6 FLEXIBLE CONNECTOR SHOWN

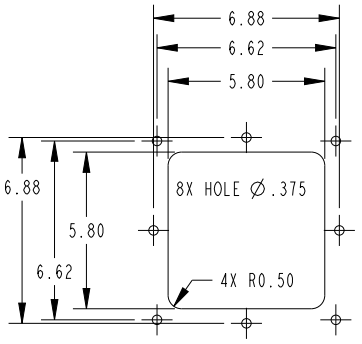


TBNK8 FLEXIBLE CONNECTOR SHOWN

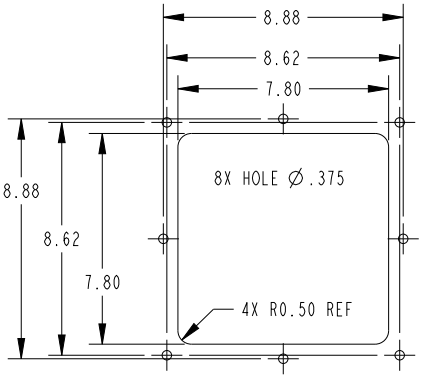
TBNK cut out pattern



4X HOLE ∅.375
TBNK4 CUT-OUT PATTERN
(SYMMETRICAL ABOUT CENTERLINE)



TBNK6 CUT OUT PATTERN
(DIMENSIONS SYMMETRICAL ABOUT CENTERLINE)



TBNK8 CUT OUT PATTERN
(DIMENSIONS SYMMETRICAL ABOUT CENTERLINE)

Expansion Fittings

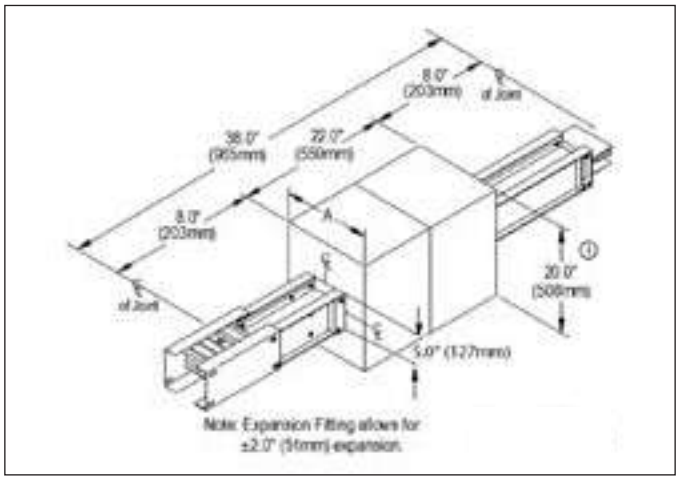
Expansion Fittings, Dimensions (standard/min.)		
Ampere Rating		Dimensions Inches (mm) "A"
AL	**L-Rated**	
225	—	13 (330)
400	—	13 (330)
600	—	13 (330)
800	400	13 (330)
1000	600	13 (330)
1200	800	18 (457)
1350	1000	18 (457)
1600	1200	18 (457)
2000	1350,1600	18 (457)
2500	2000	23 (584)
3000	2500	23 (584)
3200	2000	25 (635)
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 (within the first 20ft of vertical busway when total vertical run length is equal to or greater then 40ft) to minimize stress on the lower most device or where a busway run crosses an expansion joint of a building.

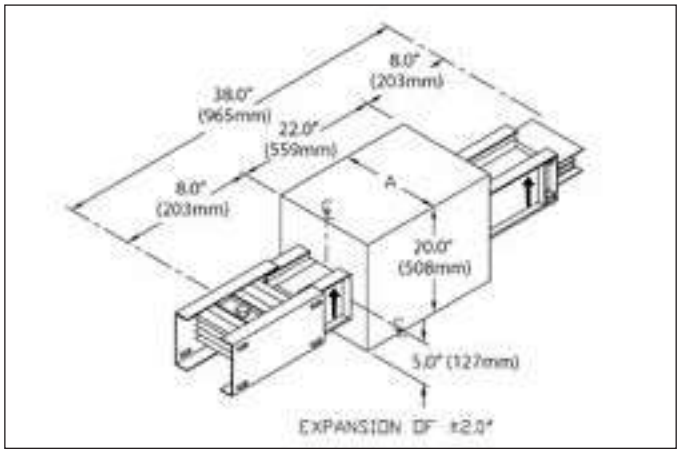
Qty (1) Expansion Section should be used for every 200ft of continuous Busway run length, at every transition to a vertical run, and at each building expansion joint. The Busway run must be positioned accordingly to accommodate the Expansion Section(s).

Expansion Fitting
Suffix XPFT



Flush Mount Expansion Fitting

Often useful in riser application, flush mount expansion fittings allow for the busway to be positioned closer to building walls (reference page <?> for minimum required clearances). The flush mount design shifts the centerline of the busway up or down by 5 in. on the 20 in. height axis shown above.



① 24.0" (610mm) for isolated ground.

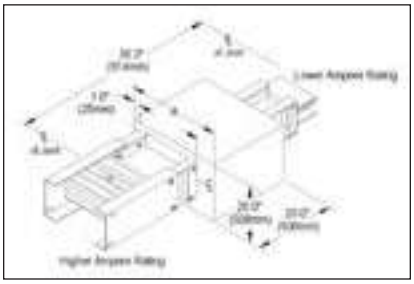
Fused Reducers, Dimensions (standard/min.)		
Ampere Rating		Dimensions Inches (mm) "A"
AL	**L-Rated**	
225	—	11.4 (289)
400	—	11.4 (289)
600	—	11.4 (289)
800	400	11.4 (289)
1000	600	11.4 (289)
1200	800	12.5 (318)
1350	1000	13.5 (343)
1600	1200	14.6 (372)
2000	1350,1600	16.9 (429)
2500	2000	19.6 (498)
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)

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.

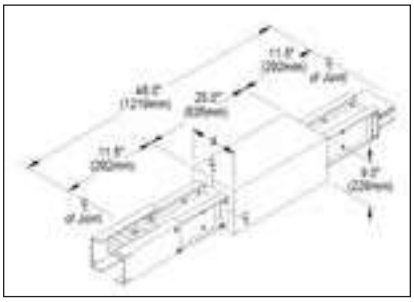
Phase Rotation Fittings, Dimensions (standard/min.)		
Ampere Rating		Dimensions Inches (mm) "A"
AL	**L-Rated**	
225	—	7.9 (200)
400	—	7.9 (200)
600	—	7.9 (200)
800	400	8.5 (216)
1000	600	9.4 (239)
1200	800	10.5 (267)
1350	1000	11.5 (293)
1600	1200	12.6 (321)
2000	1350,1600	14.9 (376)
2500	2000	17.6 (447)
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)

Phase-Rotation Fittings

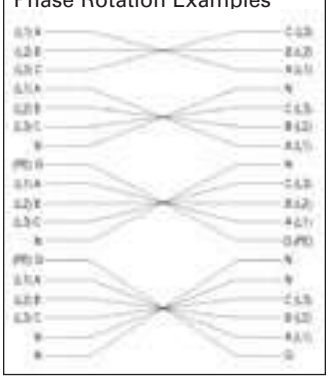
Phase-rotation fittings can be used when the application requires a phase rotation in the power supply. Phase rotation fittings can be ordered for "phase and ground", "phase only" and "ground only" rotations.

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

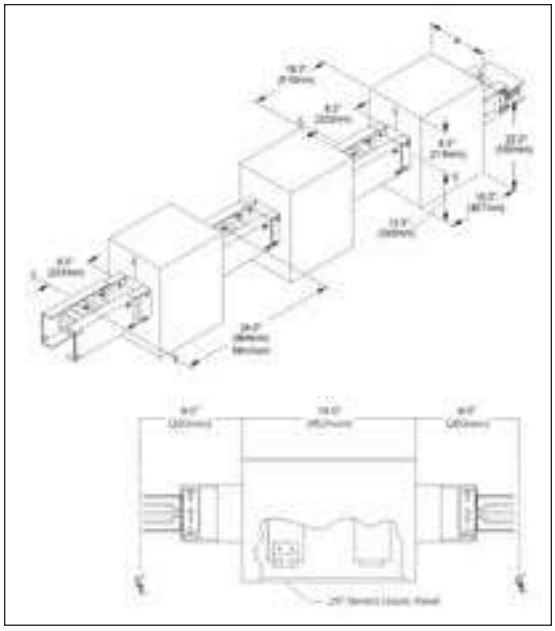
Service Heads are used to connect busway to a service entrance. In the Sentron Busway line, 3 single-phase service heads and 3-phase service head connections are available. The standard service entrance connection is the 3-phase service head which consists of one service head for all three phases. 3 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) Single-Phase "A"	Cable Lugs per Phase and Neutral Qty.	Size	Ground Lugs①
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

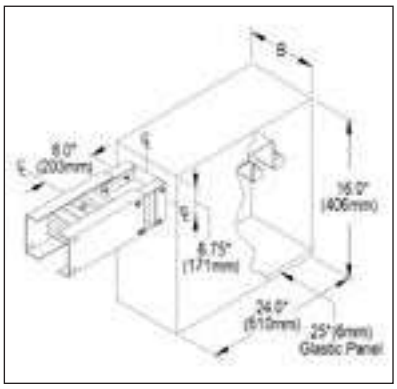
Three Single-Phase Service Heads

Suffix V1TX



Three-Phase Service Head

Suffix V3TX



Three-Phase Service Heads, Dimensions (standard/min.)

Ampere Rating		Dimensions Inches (mm) Three-Phase "B"	Cable Lugs per Phase and Neutral Qty.	Size	Ground Lugs①
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

①#6 AWG - 350 kcmil, Cu / Al.

②#4 AWG - 600 kcmil, Cu / Al.

Hangers

Selection

Trapeze Hanger—Aluminum (AL) and Copper (CU)

Ampere Rating		"A" Dimensions Inches (mm)	Flat Mounted Catalogue Number①
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.

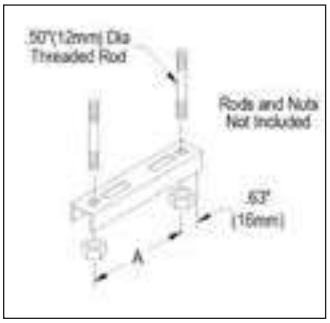
Spring Hanger—Aluminum (AL) and Copper (CU)②

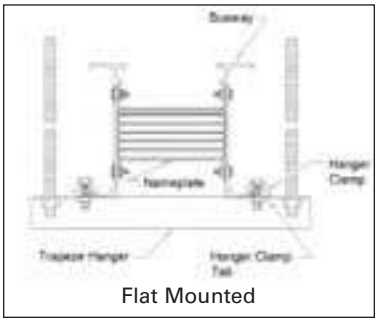
Ampere Rating		Floor to Ceiling Height (ft.) 10	12	14	16	18
AL	**L-Rated**					
225	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
400	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
600	—	SXSH4	SXSH4	SXSH4	SXSH4	SXSH4
800	400	SXSH4	SXSH4	SXSH4	SXSH6	SXSH6
1000	600	SXSH4	SXSH4	SXSH4	SXSH6	SXSH6
1200	800	SXSH4	SXSH4	SXSH4	SXSH6	SXSH6
1350	1000	SXSH4	SXSH4	SXSH6	SXSH6	SXSH6
1600	1200	SXSH8	SXSH8	SXSH8	SXSH8	SXSH8
2000	1350,1600	SXSH8	SXSH8	SXSH8	SXSH8	SXSH8
2500	2000	SXSH8	SXSH8	SXSH8	SXSH10	SXSH10
3000	2500	SXSH8	SXSH8	SXSH10	SXSH10	SXSH10
3200	2000	SXSH8	SXSH8	SXSH10	SXSH10	SXSH10
4000	3000,3200	SXSH8	SXSH10	SXSH10	SXSH10	SXSH12
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	SXSH6	SXSH6	SXSH6
1000	—	SXSH4	SXSH6	SXSH6	SXSH6	SXSH8
1200	600	SXSH6	SXSH6	SXSH6	SXSH8	SXSH8
1350	800	SXSH6	SXSH6	SXSH6	SXSH8	SXSH8
1600	1000	SXSH8	SXSH8	SXSH10	SXSH10	SXSH10
2000	1200,1350	SXSH8	SXSH10	SXSH10	SXSH10	SXSH12
2500	2000	SXSH10	SXSH12	SXSH12	SXSH12	SXSH14
3000	—	SXSH10	SXSH12	SXSH12	SXSH14	SXSH14
3200	—	SXSH12	SXSH12	SXSH14	SXSH14	SXSH12 + 1.25" Preload②
4000	2500, 3000, 3200	SXSH12	SXSH14	SXSH14	SXSH16②	SXSH14 + 1.25" Preload②
5000	4000	SXSH14	SXSH12 + 1.25" Preload②	SXSH14 + 1.25" Preload②	SXSH16 + 1.25" Preload②	SXSH16 + 1.5" Preload②

Assuming 3P4W busway with no additional busway-supported weight per floor. This information is confirmed during the quotation process, for additional information please contact your local Siemens Sales representative.

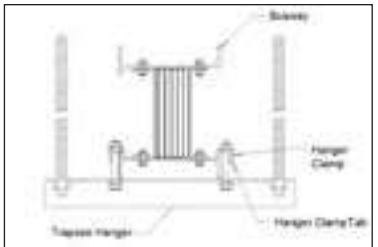
Trapeze Hanger

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.





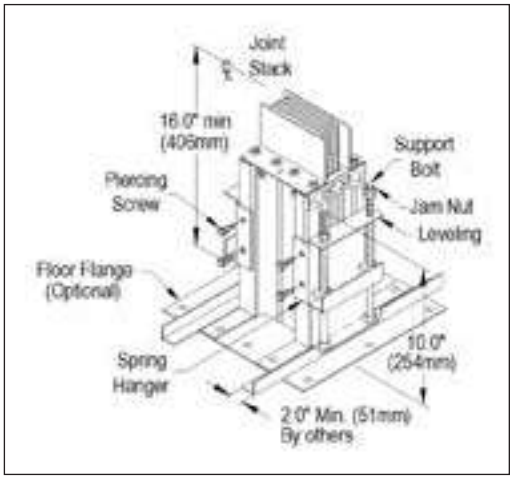
Flat Mounted



Edge Mounted

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.

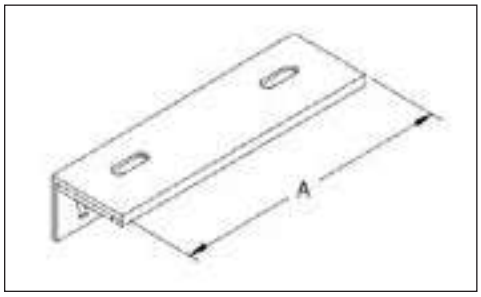


***Note:** Flanges do not offer support to the busway. Flanges provide a means of covering the hole created in the existing structure.

Structural Steel Hanger, Dimensions and Catalog 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

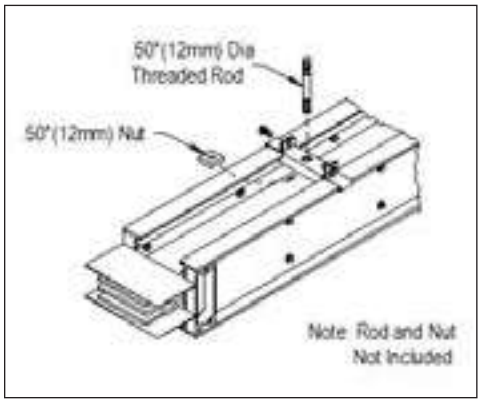
A complete offering of hangers is available to support Sentron Busway in both vertical and horizontal applications. Structural Steel hangers support Sentron Busway in horizontal applications on 10 ft. (3.05m) centers. Additional hangers may be used if structural requirements mandate their use.



Single Drop Rod Hanger, Catalog Numbers		
Ampere Rating		Catalog 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.



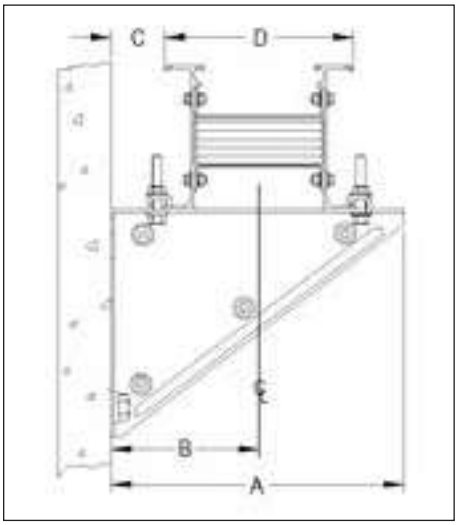
Note: Drop rod hangers can only be used when phase arrows are pointing up.

Wall Mounted Hanger, Dimensions and Catalog Numbers					
Ampere Rating		Dimensions Inches (mm) "A"	"B"	"C"	Catalogue Number
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.

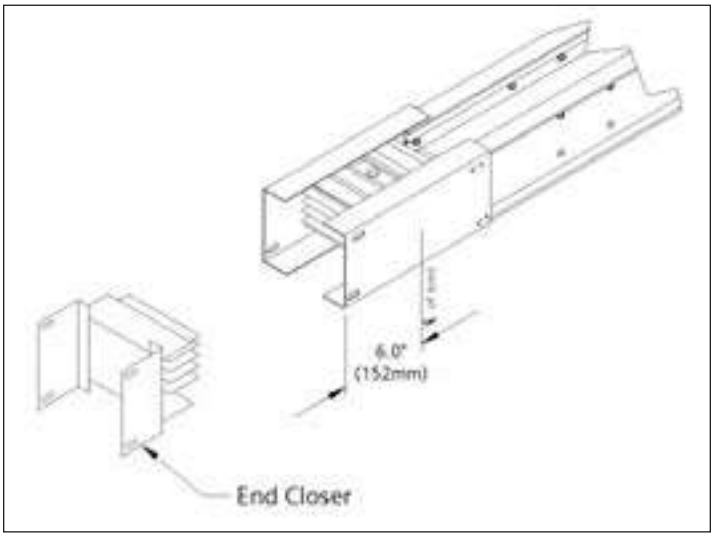


End Closers

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



Roof, wall, ceiling and floor flanges are available for Sentron Busway. When the busway run passes thorough 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.

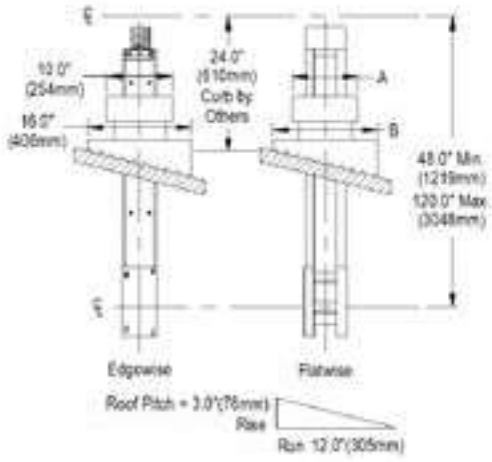
Roof Flanges, Dimensions

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.

Roof Flanges
Suffix GRFL



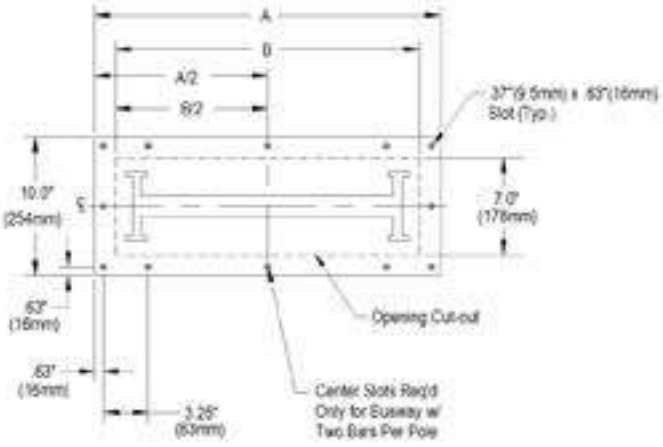
Wall, Ceiling and Floor Flanges, Dimensions

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, ceiling or floor, 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.

Wall, Ceiling and Floor Flanges
Suffix GWFL



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'

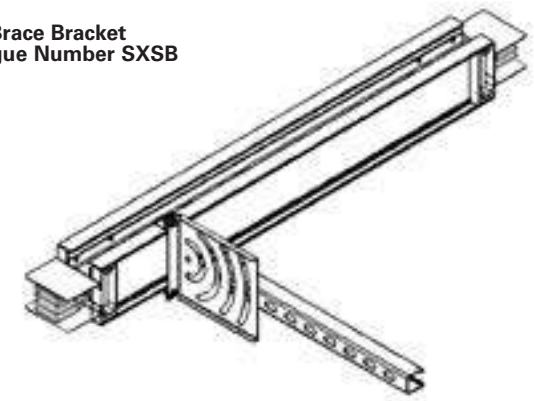
"M" Rating / Standard Rating Conversion Table

1000/A Square Inch "M" Rating	Standard Rating Equivalent
	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

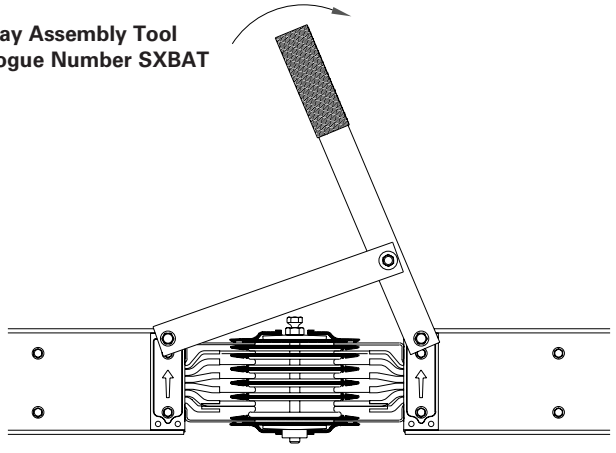
"L" Rating / Standard Rating Conversion Table

750/A Square Inch "L" Rating	Standard Rating Equivalent
	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

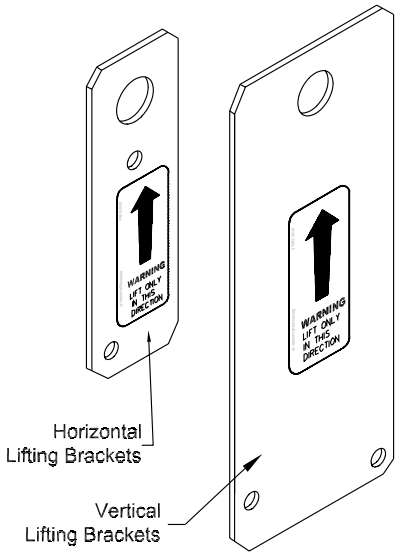
Sway Brace Bracket
Catalogue Number SXSB



Busway Assembly Tool
Catalogue Number SXBAT



Lifting Kit
Catalogue Number SXLK



Flanged Ends

Selection

Flanged ends provide a direct connection to low-voltage switchgear, switchboards, motor control centers, large power panels, and other electrical distribution equipment.

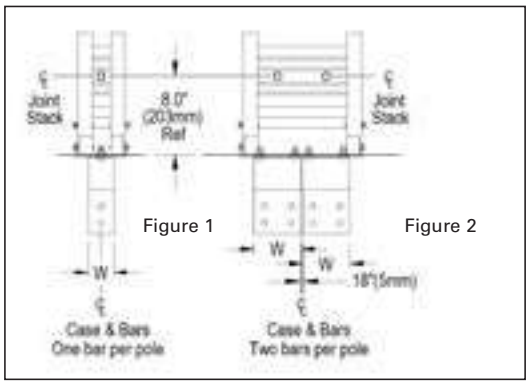
Flanged ends are shipped with one joint stack assembly. The switchgear manufacturer supplies lugs and mounting hardware. See illustration for flanged end drilling patterns.

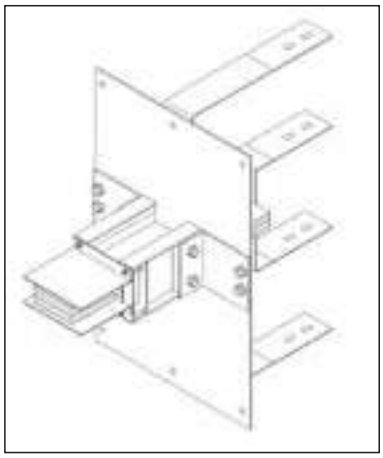
Flanged End, Dimensions

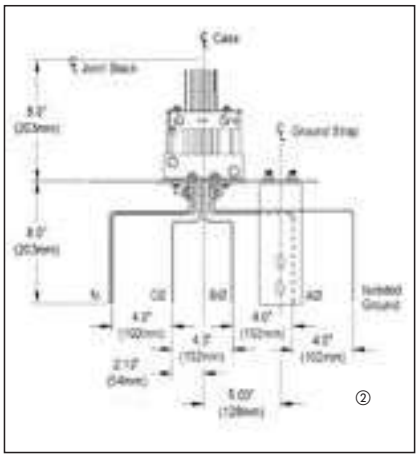
Ampere Rating		Dimensions Inches (mm) "W"	Fig. No.
AL	**L-Rated**		
225	—	1.75 (44.4)	1
400	—	1.75 (44.4)	1
600	—	1.75 (44.4)	1
800	400	2.38 (60.5)	1
1000	600	3.25 (82.6)	1
1200	800	4.38 (111.3)	1
1350	1000	5.38 (136.7)	1
1600	1200	6.50 (165.1)	1
2000	1350,1600	8.75 (222.3)	1
2500	2000	5.63 (143.0)	2
3000	2500	6.75 (171.5)	2
3200	2000	6.75 (171.5)	2
4000	3000,3200	9.00 (228.6)	2
CU	**M-Rated**		
225	—	1.75 (44.4)	1
400	—	1.75 (44.4)	1
600	—	1.75 (44.4)	1
800	400	1.75 (44.4)	1
1000	—	2.25 (57.2)	1
1200	600	2.88 (73.2)	1
1350	800	3.50 (88.9)	1
1600	1000	4.50 (114.3)	1
2000	1200,1350	6.00 (152.4)	1
—	1600	6.50 (165.1)	1
2500	2000	8.50 (215.9)	1
3000	—	4.75 (120.7)	2
3200	—	5.50 (139.7)	2
4000	2500,3000,3200	6.50 (165.1)	2
5000	4000	8.50 (215.9)	2

Flanged End

Suffix FRND

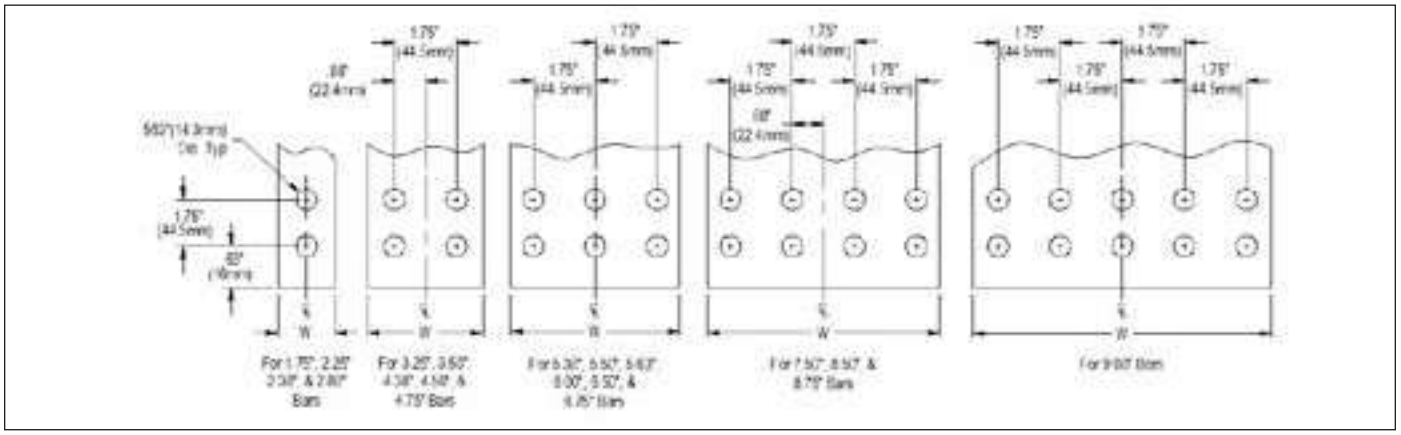






Flanged End Bus Bar Drilling Pattern (NEMA)①

(Same pattern for 2 bus bars per pole, see figure 2 above.)



① Other drilling patterns are available and must be specified at order entry.
② See Figures 4, 5 and 6 on page 13-32.

Flanged End, Dimensions (standard/min.)

Ampere Rating		Dimensions Inches (mm) Ref. Bar Width	Fig. No.	"A"	"B"	"C"	"D"	"E"	"F"	"G"	Fig. No.
AL	**L-Rated**										
225	—	2.38 (60.5)	1	10.0 (254)	8.00 (203)	4.38 (111)	1.94 (49)	3.88 (99)	—	6.00 (152)	4, 5
400	—	2.38 (60.5)	1	10.0 (254)	8.00 (203)	4.38 (111)	1.94 (49)	3.88 (99)	—	6.00 (152)	4, 5
600	—	2.38 (60.5)	1	10.0 (254)	8.00 (203)	4.38 (111)	1.94 (49)	3.88 (99)	—	6.00 (152)	4, 5
800	400	2.38 (60.5)	1	10.0 (254)	8.00 (203)	4.38 (111)	1.94 (49)	3.88 (99)	—	6.00 (152)	4, 5
1000	600	3.25 (82.6)	2	10.0 (254)	8.00 (203)	4.38 (111)	1.94 (49)	2.06 (52)	—	6.00 (152)	4, 6
1200	800	4.38 (111.3)	2	15.50 (395)	13.50 (343)	7.13 (181)	1.60 (41)	3.19 (81)	—	8.50 (216)	4, 6
1350	1000	5.38 (136.7)	2	15.50 (395)	13.50 (343)	7.13 (181)	2.10 (53)	4.19 (106)	—	8.50 (216)	4, 6
1600	1200	6.50 (165.1)	2	15.50 (395)	13.50 (343)	7.13 (181)	2.66 (67)	5.31 (135)	—	8.50 (216)	4, 6
2000	1350,1600	8.75 (222.3)	2	15.50 (395)	13.50 (343)	7.13 (181)	3.78 (96)	7.56 (192)	—	8.50 (216)	4, 6
2500	2000	5.63 (143.0)	3	20.0 (508)	18.00 (457)	4.50 (114)	0.68 (17)	1.37 (36)	4.44 (113)	13.25 (337)	4, 6
3000	2500	6.75 (171.5)	3	20.0 (508)	18.00 (457)	4.50 (114)	0.68 (17)	1.37 (36)	5.56 (141)	13.25 (337)	4, 6
3200	2000	7.50 (190.5)	3	24.0 (610)	22.0 (569)	5.50 (140)	0.68 (17)	1.37 (36)	6.32 (161)	13.25 (337)	4, 6
4000	3000,3200	9.00 (228.6)	3	24.0 (610)	22.0 (569)	5.50 (140)	0.68 (17)	1.37 (36)	7.81 (198)	14.25 (362)	4, 6
CU	**M-Rated**										
225	—	1.75 (44.4)	1	10.0 (254)	8.00 (203)	4.38 (111)	1.63 (41)	3.25 (83)	—	6.00 (152)	4, 5
400	—	1.75 (44.4)	1	10.0 (254)	8.00 (203)	4.38 (111)	1.63 (41)	3.25 (83)	—	6.00 (152)	4, 5
600	—	1.75 (44.4)	1	10.0 (254)	8.00 (203)	4.38 (111)	1.63 (41)	3.25 (83)	—	6.00 (152)	4, 5
800	400	1.75 (44.4)	1	10.0 (254)	8.00 (203)	4.38 (111)	1.63 (41)	3.25 (83)	—	6.00 (152)	4, 5
1000	—	2.25 (57.2)	1	10.0 (254)	8.00 (203)	4.38 (111)	1.88 (48)	3.75 (95)	—	6.00 (152)	4, 5
1200	600	2.88 (73.2)	2	10.0 (254)	8.00 (203)	4.38 (111)	0.85 (21)	1.69 (43)	—	6.00 (152)	4, 6
1350	800	3.50 (88.9)	2	10.0 (254)	8.00 (203)	4.38 (111)	1.16 (29)	2.31 (59)	—	6.00 (152)	4, 6
1600	1000	4.50 (114.3)	2	15.50 (395)	13.50 (343)	7.13 (181)	1.66 (42)	3.31 (84)	—	8.50 (216)	4, 6
2000	1200,1350	6.00 (152.4)	2	15.50 (395)	13.50 (343)	7.13 (181)	2.41 (42)	4.81 (122)	—	8.50 (216)	4, 6
—	1600	6.50 (165.1)	2	15.50 (395)	13.50 (343)	7.13 (181)	2.66 (67)	5.31 (135)	—	8.50 (216)	4, 6
2500	2000	8.50 (215.9)	1	15.50 (395)	13.50 (343)	7.13 (181)	3.66 (93)	7.31 (186)	—	8.50 (216)	4, 6
3000	—	4.75 (120.7)	3	20.0 (508)	18.00 (457)	4.50 (114)	0.68 (17)	1.37 (36)	3.56 (90)	13.25 (337)	4, 6
3200	—	5.50 (139.7)	3	20.0 (508)	18.00 (457)	4.50 (114)	0.68 (17)	1.37 (36)	4.32 (110)	13.25 (337)	4, 6
4000	2500,3000,3200	6.50 (165.1)	3	20.0 (508)	18.00 (457)	4.50 (114)	0.68 (17)	1.37 (36)	5.31 (135)	13.25 (337)	4, 6
5000	4000	8.50 (215.9)	3	24.0 (610)	22.00 (569)	5.50 (140)	0.68 (17)	1.37 (36)	7.31 (186)	14.25 (362)	4, 6

Figure 1

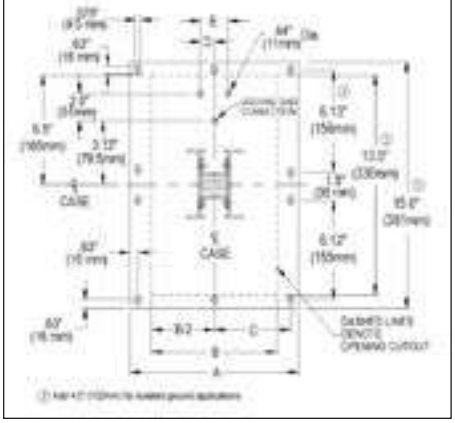


Figure 2

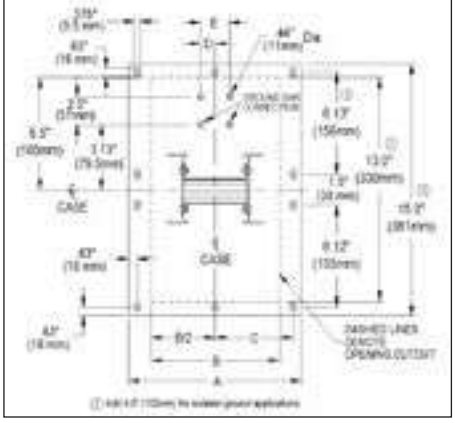
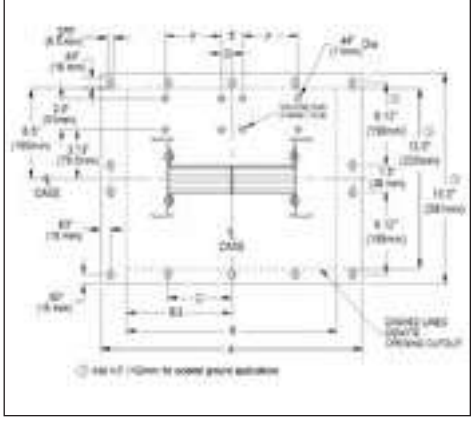


Figure 3



Integral and Internal Ground Strap Drilling Detail

Figure 4

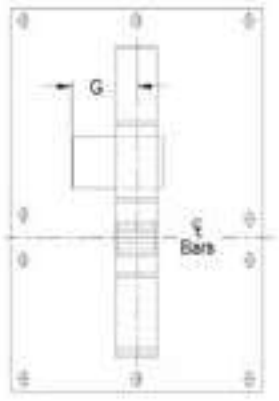


Figure 5

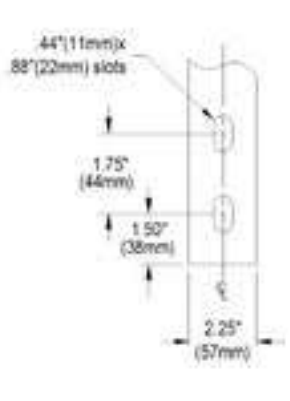
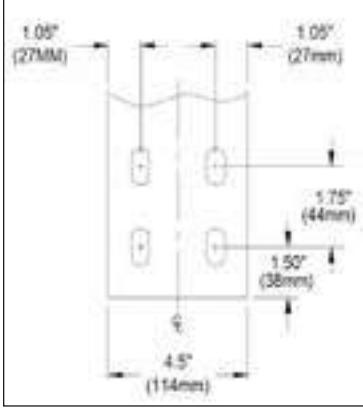


Figure 6



Combination Flange/Elbow

A combination Flange/Elbow may be used in space constrained applications. Flatwise and edgewise combination flange/elbows require a minimum clearance of 5 in. (127mm) from the top of the connecting equipment to the centerline of the busway.

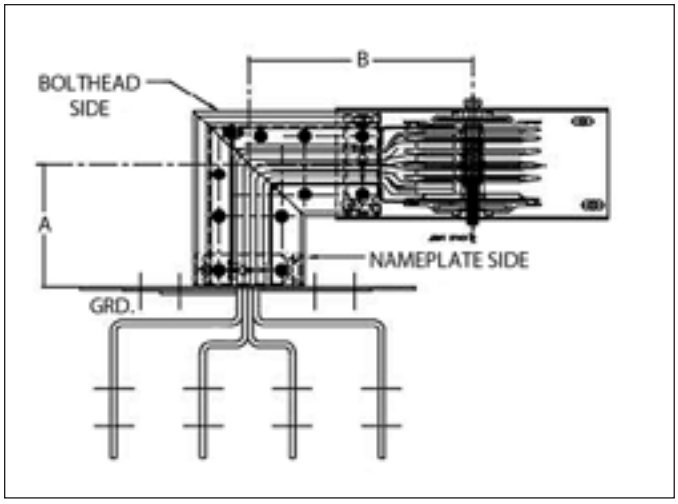
Flat Elbow with Flanged End, Dimensions

Ampere Rating	Dimensions inches (mm)							
	Minimum		Maximum		Minimum		Maximum	
	"A"	"B"	"A"	"B"	"A"	"B"	"A"	"B"
800	4.75 (121)	12 (305)	22 (559)	48 (1219)	4.50 (121)	12 (305)	22 (559)	48 (1219)
1000	5.20 (132)	12 (305)	22 (559)	48 (1219)	4.70 (121)	12 (305)	22 (559)	48 (1219)
1200	5.75 (146)	12 (305)	22 (559)	48 (1219)	5.00 (121)	12 (305)	22 (559)	48 (1219)
1350	6.25 (159)	12 (305)	22 (559)	48 (1219)	5.30 (121)	12 (305)	22 (559)	48 (1219)
1600	6.80 (173)	18 (457)	22 (559)	48 (1219)	5.80 (121)	12 (305)	22 (559)	48 (1219)
2000	8.00 (203)	18 (457)	28 (711)	48 (1219)	6.60 (121)	12 (305)	22 (559)	48 (1219)
2500	9.30 (236)	18 (457)	28 (711)	48 (1219)	7.80 (121)	18 (457)	28 (711)	48 (1219)
3000	10.40 (264)	18 (457)	28 (711)	48 (1219)	8.40 (121)	18 (457)	28 (711)	48 (1219)
3200	11.15 (283)	18 (457)	28 (711)	48 (1219)	9.20 (234)	18 (457)	28 (711)	48 (1219)
4000	12.70 (323)	24 (607)	34 (864)	48 (1219)	10.20 (121)	18 (457)	28 (711)	48 (1219)
5000					12.20 (121)	24 (607)	34 (864)	48 (1219)

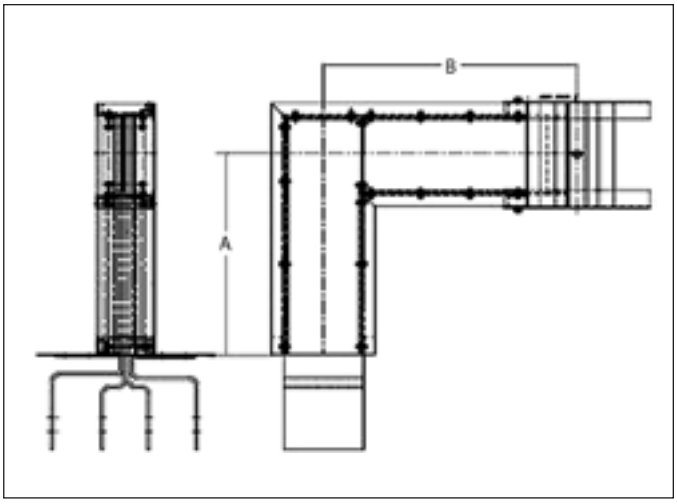
Edge Elbow with Flanged End, Dimensions

Minimum		Maximum	
"A"	"B"	"A"	"B"
5.00 (127)	10 (254)	18 (457)	48 (1219)

Edge Elbow with Flanged End



Flat Elbow with Flanged End



In-Line Disconnect Cubicle, Dimensions ②	
Description of Unit	**Type of Disconnect**
Fusible Switch	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 WL①
Bolted Pressure Switch ACCESS-compatible	800A 1200-2500A 3000A 4000A

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

Fusible Cubicles①③

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

Ampere Ratings:
800
1200

Bolted Pressure Switches③

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 Cubicles③

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

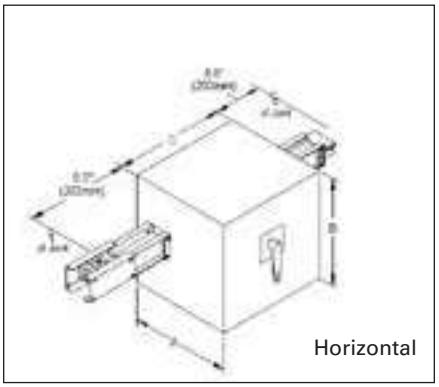
Breaker Frame	Ampere Rating
SJD6-A, SHJD6-A, SCJD6-A	200–400
SLD6-A, SHLD6-A, SCLD6-A	300–600
SMD6, SHMD6, SCMD6-A	600–800
SND6, SHND6, SCND6-A	800–1200
SPD6, SHPD6	1400–1600

① Fuses not included.
② For electrically operated, specify control voltage.
③ IP40 and IP55

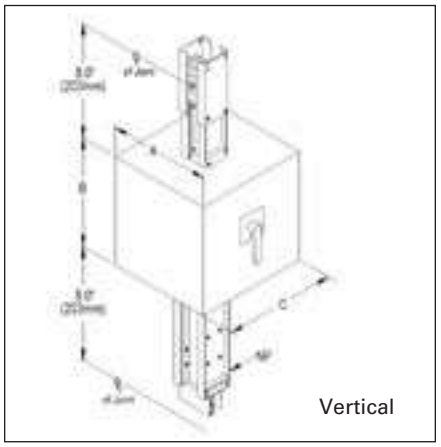
In-Line Disconnect Cubicles

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



Horizontal



Vertical

Molded Case Circuit Breaker Cubicles

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

Breaker Type	Ampere Rating
FD6	70–250A
JD6	200–400A
LD6	450–600A
MD6	500–800A
ND6	900–1200A
PD6	1200–1600A
RD6	1600–2000A

Current-Limiting

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

Breaker Type	Ampere Rating
CFD6	70–250A
CJD6	200–400A
CLD6	450–600A
CMD6	600–800A
CND6	900–1200A
CPD6	1200–1600A

Power Circuit Breaker②③

3-Pole or 3-Phase, 4-Wire

Breaker Frame Type	Max. Amp. Rating	Interrupting current frame Ics (kAIR RMS) 50/60 Hz								
		240 Volt			480 Volt			600 Volt		
Type WL										
Frame Size 1 (S, H, L Rating Class)	2000A	65k	85k	100k	65k	85k	100k	65k	65k	65k
Frame Size 2 (S, L, C Rating Class)	3000A	65k	100k	150k	65k	100k	150k	65k	85k	100k
Frame Size 3 (L and C Rating Class)	5000A	—	100k	150k	—	100k	150k	—	85k	100k

In-Line Disconnect Cubicle, Approximate Dimensions

Description of Unit	Type of Disconnect	Dimensions in Inches		
		A	B	C
Fusible Switch	800-1200A Vacu-Break	36 (914)	36 (914)	32 (813)
Molded Case Circuit Breaker	JD6, LD6, MD6, ND6 PD6, RD6	36 (914) 36 (914)	28 (711) 36 (914)	28 (711) 32 (813)
Digital Sentron Series MCCB's	SJD6, SLD6, SMD6, SND6 SPD6, 1600A Frame	36 (914) 36 (914)	28 (711) 36 (914)	28 (711) 32 (813)
Power Circuit Breaker	WL Frame Size 1 WL Frame Size 2 WL Frame Size 3	48 (1219) 48 (1219) 48 (1219)	36 (914) 36 (914) 36 (914)	32 (813) 32 (813) 32 (813)
Bolted Pressure Switch	800A 1200-2500A 3000A 4000A	33 (838) 37 (940) 37 (940) 41 (1041)	36 (914) 40 (1016) 40 (1016) 40 (1016)	32 (813) 32 (813) 48 (1219) 48 (1219)

Meter center modules provide a quick and convenient method of connecting to metering devices for both commercial and industrial applications.

Meter center modules connect at the side of a busway run to special joint stacks; these special joints can be added to existing busway to accommodate meter center module connections. When using multiple metering stacks, main disconnects are available if the system reaches the 6 circuit rule (see metering bulletin for further information).

Dimensional Data Required

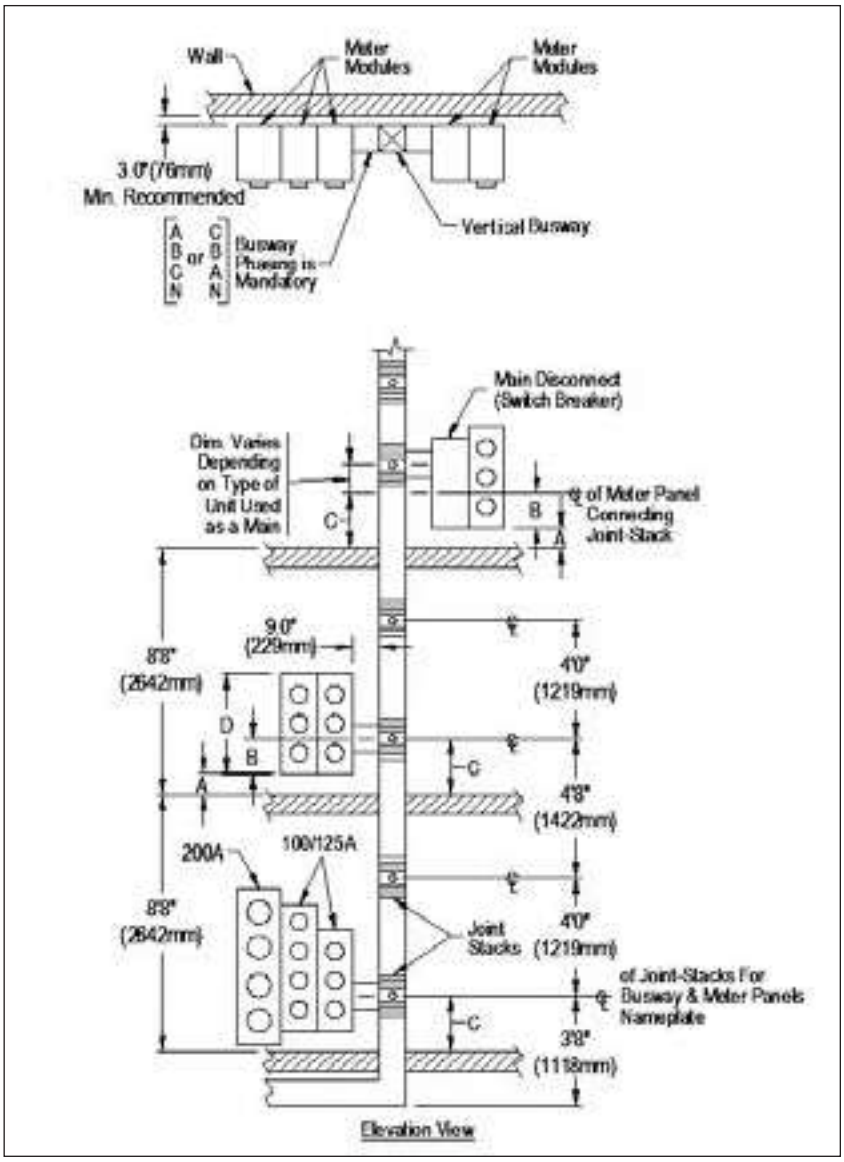
Dimensions Inches (mm)

"A" Distance between floor and bottom of meter center as required by the customer.

"B" Dimension from bottom of meter center to centerline of meter center joint connection stack:
100-125A Panel, B = 16.5 (419)
200A Panel, B = 22.0 (559)

"C" Equals "A" plus "B", Minimum 16.0 (406)

"D" Individual meter center height. Consult Modular Metering application information.



Meter Center Cubicles

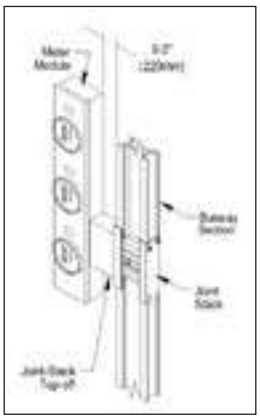
Meter center cubicles provide a quick and convenient method of connecting to metering devices for both commercial and industrial applications and have the main disconnect circuit breaker factory installed.

Having the main disconnect built into the device reduces the required space on the right and left side of the busway. Meter center modules connect at the side of the cubicle frame box using an QC4 stack. Meter center cubicles are available for 600 – 1200 Amp (L, M and N Frames). They are available with flexible meter center connections, left side, right side or both. (When ordering a meter center cubicle a QC4 stack must be ordered separately.)

Molded Case Circuit Breaker Cubicles with Meter Tap Stack Provisions Dimensions, Inches (mm)

Ampere Rating		Busway Width W	L Frame Breaker (250-600A)			M Frame Breaker (250-800A)			N Frame Breaker (800-1200A)		
			A	B	C	A	B	C	A	B	C
AL	**L-Rated**										
225	—	3.9 (99)	32 (813)	24 (620)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
400	—	3.9 (99)	32 (813)	24 (620)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
600	—	3.9 (99)	32 (813)	24 (620)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
800	400	4.6 (117)	32 (813)	24 (610)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
1000	600	5.4 (137)	32 (813)	24 (610)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
1200	800	6.6 (168)	32 (813)	24 (610)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
1350	1000	7.6 (193)	32 (813)	24 (610)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
1600	1200	8.7 (221)	32 (813)	24 (610)	20 (490)	37 (940)	26 (660)	20 (490)	37 (940)	26 (660)	20 (490)
2000	1350,1600	10.9 (277)	32 (813)	24 (610)	20 (490)	37 (940)	26 (660)	20 (490)	37 (940)	26 (660)	20 (490)
2500	2000	13.7 (348)	32 (813)	24 (610)	23.5 (597)	37 (940)	26 (660)	23.5 (597)	37 (940)	26 (660)	23.5 (597)
3000	2500	15.8 (401)	32 (813)	24 (610)	23.5 (597)	37 (940)	26 (660)	23.5 (597)	37 (940)	26 (660)	23.5 (597)
3200	2000	17.3 (439)	32 (813)	24 (610)	23.5 (597)	37 (940)	26 (660)	28 (711)	37 (940)	26 (660)	28 (711)
4000	3000,3200	20.3 (516)	32 (813)	24 (610)	28 (711)	37 (940)	26 (660)	28 (711)	37 (940)	26 (660)	28 (711)
4000	3000,3200	20.3 (516)	32 (813)	24 (610)	28 (711)	37 (940)	26 (660)	28 (711)	37 (940)	26 (660)	28 (711)
CU	**M-Rated**										
225	—	3.9 (99)	32 (813)	24 (620)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
400	—	3.9 (99)	32 (813)	24 (620)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
600	—	3.9 (99)	32 (813)	24 (620)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
800	400	3.9 (99)	32 (813)	24 (620)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
1000	—	4.4 (112)	32 (813)	24 (610)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
1200	600	5.1 (130)	32 (813)	24 (610)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
1350	800	5.7 (145)	32 (813)	24 (610)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
1600	1000	6.7 (170)	32 (813)	24 (610)	16 (406)	37 (940)	26 (660)	16 (406)	37 (940)	26 (660)	16 (406)
2000	1200,1350	8.2 (208)	32 (813)	24 (610)	20 (490)	37 (940)	26 (660)	20 (490)	37 (940)	26 (660)	20 (490)
—	1600	8.7 (221)	32 (813)	24 (610)	20 (490)	37 (940)	26 (660)	20 (490)	37 (940)	26 (660)	20 (490)
2500	2000	10.7 (272)	32 (813)	24 (610)	20 (490)	37 (940)	26 (660)	20 (490)	37 (940)	26 (660)	20 (490)
3000	—	11.8 (300)	32 (813)	24 (610)	20 (490)	37 (940)	26 (660)	20 (490)	37 (940)	26 (660)	20 (490)
3200	—	13.3 (335)	32 (813)	24 (610)	20 (490)	37 (940)	26 (660)	23.5 (597)	37 (940)	26 (660)	23.5 (597)
4000	2500,3000,3200	15.3 (389)	32 (813)	24 (610)	23.5 (597)	37 (940)	26 (660)	23.5 (597)	37 (940)	26 (660)	23.5 (597)
5000	4000	19.3 (491)	32 (813)	24 (610)	28 (711)	37 (940)	26 (660)	28 (711)	37 (940)	26 (660)	28 (711)

Meter Center Module

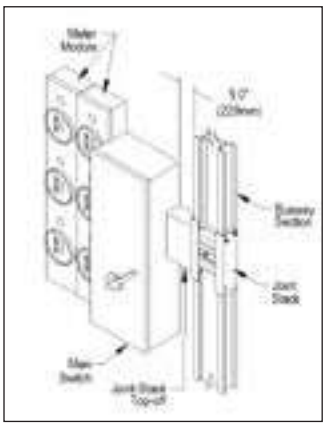


Side Mount Panelboard

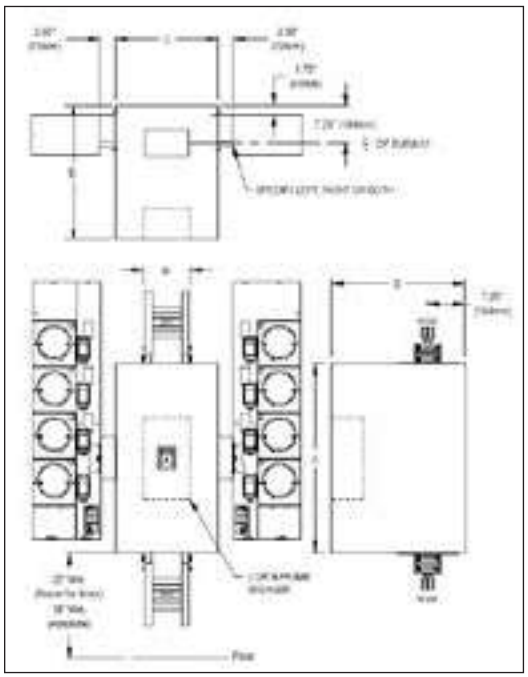


For this panelboard configuration, please contact Spartanburg plant for mounting information. Configuration only available for P2 and P3 panels in 240V or below applications.

Main Disconnect Meter Module



Meter Center Cubicle



Installation

In preparation for installation of your busway systems, it is important to familiarize yourself with the following installation publications:

- General Instructions For Handling, Installation, Operation and Maintenance of Busway Rated 600 volts or less (NEMA Standards Publication BU1)
- Storage, Installation and Maintainance Instructions for Sentron Busway

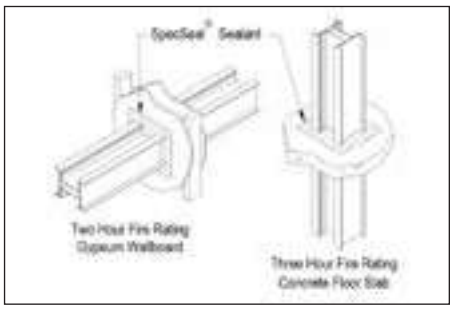
These publications should be read through thoroughly and used as reference during installation to ensure proper installation procedures.

All equipment should be inspected upon delivery. If the busway is not installed immediately, it should be stored in a clean, dry location. Factory supplied record drawings as well as installation tools should be accessible in preparation for installation.

UL 1479 Fire Rated Installations

Sentron Busway has been tested in accordance with UL 1479 and offers a certified two hour fire rating for gypsum wallboard 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.

The SpecSeal® fire stop system provides superior performance at the industry's lowest installed cost.



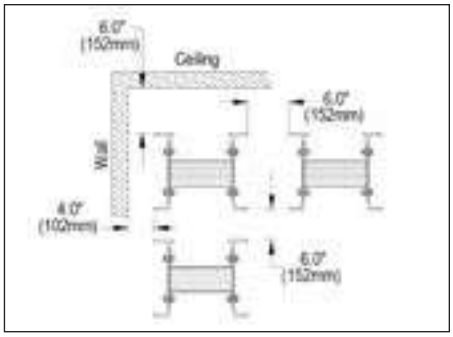
Measuring

Critical to the success of any busway installation is the layout and the accurate measuring of the busway. First and foremost:

Select a route for your busway that will require the fewest fittings and the maximum number of 10' (3.05m) sections. It is important that the busway system be designed to meet the requirements of the National Electric Code for Busway. There are a number of techniques that may be used to ensure an accurate measurement before purchasing and installing the busway. The following tools will be required during layout and masuring:

- 100' (30.48m) tape measure
- Measuring Stick
- Chalkline
- Plumb Bob
- Marker

(A laser distance measuring device may be used to speed up the measuring process).



Minimal Clearances

Minimum clearances for installing feeder busway are shown. Additional clearance may be required for plug-in devices larger than 100A fusible and 250A circuit breaker.

SIEMENS

Busway Order Entry Checklist
Complete one checklist for each busway run.

Date Submitted: _____

Purchase Order #: _____
Project Name: _____
Sales Suport: _____
Sales Engineer: _____

Drawing requirements
Approval drawings ☐ # copies ☐
Recorder drawings ☐ # copies ☐
Ship Complete ____ Partial Shipments ____ YES
Ship not before: _____
Shipping Instructions

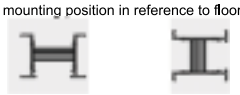
Release ☐ Hold For Release ☐ YES

Run Designation _____
Busway Catalog # _____
Service, _____ _____ Amps
Bus material ☐ CU ☐ AL ☐ "M" Rated ☐ "L" Rated
Neutral ☐ None ☐ 100 % ☐ 200 %
Ground ☐ Case ☐ Internal ☐ Isolated
IP rating ☐ IP 40 Indoor
☐ IP 55 Splash Proof
☐ NEMA 3R Outdoor

TIP, You can make additioanl copies of this sheet by right clicking on the tab and creating a duplicate.
Use one sheet for each Busway run.

*NOTE: For OUTDOOR BUSWAY, contact the factory before quoting outdoor busway runs over 50 ft.

Busway mounting position in reference to floor



A) **Engineering Information**
☐ Field sketches or factory approval drawings attached?
☐ Dimensions from walls, column lines, ect.
☐ Wall, floor and roof thickness and pitch.
Floor Elevation's
☐ Floor to floor
☐ Floor to ceiling
☐ Wall locations
☐ Equipment pads Height _____
☐ Existing Busway to be extended cat # _____
☐ Phasing
☐ Nameplate Information
☐ Match to competitor, Contact the plant.
☐ Special SWBD connection, provide details
☐ Phase Transpositions: Provide phasing on drawings
☐ Riser Bus
☐ Load side of bus plug (top or bottom)
☐ Required distance from floor to top of panels/plugs
☐ Meter bank (center line of tap stack)
☐ Barriers and/or floor supports
☐ Transformer Connections
☐ Standard XFMR Service head
☐ Single phase
☐ Three single phase
☐ Special drawing required
☐ Dimensions between phases
☐ LV spade detail, including drilling and thickness
☐ Dimensions of LV spade from tank wall
☐ Throat opening and bolt pattern, if any
☐ Utility Vault Connection Utility type _____
☐ Required drawing attached?
☐ End Cable Tap Box
☐ Horizontal ☐ Vertical
☐ Standard Lugs
☐ Special lugs, specify below,
☐ Intermediate Hangers ☐ Qty. *Note: Intermediate Hangers are for floor to ceiling height greater than 16ft. Consult factory if greater than 32 ft.
☐ Expansion Sections ☐ Qty.
*Note: Expansion Section is required 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).

B) **Specifications** (check or fill appropriate blanks)
☐ Standard busway meet specifications
☐ Exceptions to specifications, note comments below
Short-circuit bracing 100KAIC Amps symmetrical
Voltage drop requirement _____
Temperature-rise requirement _____
Current density requirement _____
Special paint, provide paint chip. _____
Special Comments

Recommended Measurement Steps

1. Using systems requirements for amperage, voltage, and conductors, determine the physical size of the busway. This is important when setting minimum clearances from walls, columns, ceilings and other obstructions. See page 33 for minimal clearances.
2. Prior to any layout, review the complete area to determine the best location for the run. Special attention needs to be given to existing equipment such as plumbing, HVAC, steel columns, beams and permanent structures.
3. Measure all dimensions from fixed points such as columns, walls, floors and ceilings.
4. Make a preliminary sketch showing proposed busway routing, elevations and obstructions. Be sure to show all floor and wall locations including thickness.
5. Where plug-in devices are being used, be sure to allow for proper operation clearances. See dimensional requirements shown in the bus plug section of this publication.

Reference the following documents online at www.usa.siemens.com/busway.

- Sentron Quick Reference
- Busway Order Entry Checklist
- Sentron Busway Installation and Instruction Guide

Maintenance

In order to maintain system performance, it is necessary to perform regular maintenance on your busway system. Siemens Storage, Installation and Maintenance Instructions, and NEMA Publication BU1.1 should be used as a guide to proper maintenance procedures. Routine maintenance of your busway system will increase its life and performance.

Custom Product

With a 60 year history in designing and manufacturing Busway Systems, Siemens can develop custom solutions to meet specific job requirements. Siemens specializes in custom engineered busway sections, connections, and bus plugs. Consult your local Siemens sales office for details on custom pricing and ordering

Connecting to Existing Equipment

Do you have existing power distribution equipment (non-Sentron) that you would like to run Sentron Busway to or from? Siemens can engineer special connection pieces that allow you to connect Sentron Busway quickly and efficiently.

Transformer Connections

Siemens can connect Sentron Busway to almost any transformer. All you need to do is provide complete drawings of transformer secondary connections with detailed drilling pattern and phasing information to your local Siemens sales engineer and they can order you a custom designed connection piece.

Paint

Sentron Busway products have a protective finish of ANSI 61 gray (standard) polyester urethane powder paint. The paint is electrostatically applied to all housing surfaces. Colors other than ANSI 61 gray may be special ordered.

Low Current Density Busway Sentron Busway may be ordered as 1000 A/in^2 Copper or 750 A/in^2 Aluminum.

Conversion is as follows:

Required M or L Rating	
AL	**L-Rated**
225	—
400	—
600	—
800	400
1000	600
1200	800
1350	1000
1600	1200
2000	1350,1600
2500	2000
3000	2500
3200	2000
4000	3000,3200

Required M or L Rating	
AL	**L-Rated**
225	—
400	—
600	—
800	400
1000	—
1200	600
1350	800
1600	1000
2000	1200, 1350
—	1600
2500	2000
3000	—
3200	—
4000	2500, 3000
5000	4000

"L" Rating = 750 A/in^2 Aluminum
"M" Rating = 1000 A/in^2 Copper
1600 "M" rated is dedicated offering.

Applications – 200% Neutral Option

Power system harmonics are created by numerous types of non-linear loads which are often very high in harmonic content. The harmonics generated create problems in electrical systems and equipment. The presence of nonlinear loads can result in overheated neutrals and lead to deterioration of equipment performance and a reduced equipment life cycle. In order to prevent such problems from occurring, the Computer and Business Equipment Manufacturers Association (CBEMA) recommends that the neutral be oversized to at least 173% of the ampacity of the phase conductors to prevent problems. Sentron Busway offers two fully rated bus bars, therefore providing twice the current carrying surface as the phase bars. Each neutral bar is plated with the same tin plating and insulated with the same electrostatically applied epoxy insulation as the phase bars. This 200% neutral capacity helps prevent overheating caused by non-linear loads.

Isolated Ground

Sentron Busway is available with an optional isolated ground. This isolated ground provides a clean ground path for high frequency signals coming through the ground. This option is very useful in applications where there are computers or diagnostic equipment. The isolated ground option is often used in hospitals and higher technology industry applications.

Services – Power II Fit Final Connection Program

A "Final Connection" section is a length of busway inserted into a run of busway after the major portion of the busway run has been installed. This allows the release of the majority of the busway run long before the final dimensions are known.

Final Connection pieces must be identified at the time of the original order release with approximate date of Final Connection order. The Final Connection order form should be emailed to Busway Customer Service. For program details visit our website: www.usa.siemens.com/busway or contact your local Siemens sales office.



Measuring and Layout

For large jobs, Siemens Busway Systems offer assistance with measuring and layout of the busway. This service is negotiated on a job by job basis.

Technical Support

The Customer Interaction Center (CIC) provides 24/7 bilingual support for our customers.

The CIC provides both telephone and online support. You can send in your request via email or by giving the CIC a call.

Email us: cic.ca@siemens.com
Toll-Free Support: 1-888-303-3353

Power II Fit Program

What is the Power II Fit Program?

Siemens Power II Fit (PIIF) Program compensates for dimensional deviations that may result in busway layouts. With the PIIF Program, specific dimensions on straight sections and/or elbows may be left out of factory released drawings. After the busway run has been installed (minus PIIF pieces), final measurements are taken and sent to the factory. The PIIF Program guarantees shipment of straight sections and/or 90 degree angle elbows within 5 business days for IP40 (indoor) and 8 business days for NEMA 3R (outdoor), upon receipt of the PIIF Order Form. The PIIF Program may be used with SENTRON.

Why use the Power II Fit Program?

The PIIF Program can save you both time and money by eliminating uncertainty in busway measurements. When you take advantage of the PIIF Program, your busway runs fit exactly the first time, eliminating incorrect pieces and costly reordering time.

When should the Power II Fit Program be used?

The PIIF Program will benefit you when you are uncertain of exact dimensions on long busway runs and when difficult contour situations require special attention.

Program Details

- Product Line: SENTRON.
- Pricing: Included with original order entry.
- Quantity: A maximum of 5 pieces per order. (Straight feeder sections and/or 90 degree elbows.)
- Shipment: 5 business days for IP40 (indoor) and 8 business days for NEMA 3R (outdoor), after receipt of PIIF Order Form. All orders ship via standard carrier originating from Spartanburg, SC. Optional air freight shipments available when the customer bears the shipping cost.

Ordering Details

- Identify Siemens Busway PIIF Pieces at time of original order. Busway Customer Service approves PIIF Pieces.
- Send PIIF Order Form to Busway Customer Service when exact measurements are known.
- Busway Customer Service acknowledges PIIF Order and PIIF pieces ship within 5 business days for IP40 (indoor) and 8 business days for NEMA 3R (outdoor).

What is the Power II Measure service?

Siemens Power II Measure (PIIM) service provides professional busway routing and measurement by a factory representative. The Siemens representative will meet with the designated site contact to review project details and discuss routing options. Using a laser measuring device, all pertinent site measurements will be recorded and then transferred to CAD approval drawing(s). The PIIM service guarantees correct alignment and routing of the busway. If there are any errors in the busway routing that resulted from Siemens, replacement busway items will be provided at no charge.

Why use the Power II Measure service?

The PIIM service can save you both time and money by:

- Ensuring the most cost effective busway routing
- Ensuring accurate measurements
- Reducing order engineering lead-time

When should the Power II Measure service be used?

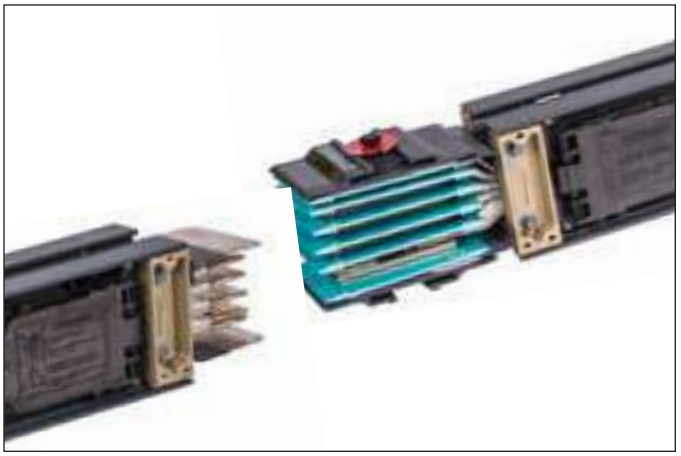
The PIIM service can be beneficial for all projects (new or existing, large or small). The PIIM service is especially beneficial for large and/or complex projects.

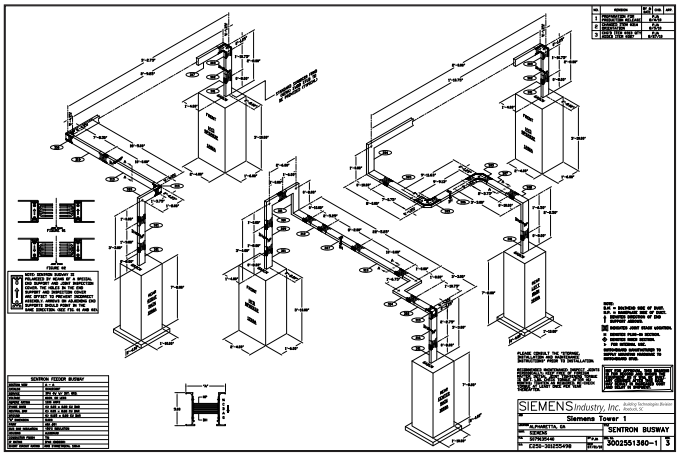
Program details

- Product Line: Sentron, XJL, XLU, BD
- Pricing: Fixed daily rate includes travel expenses, site review, measurement service and approval drawings
- Deliverable: An electronic CAD approval package will be submitted within 3 weeks of the site visit. The drawing package will include isometric busway routing with gear orientation, and any special application notes/details.

Ordering details

- The PIIM service should be ordered at the same time as the busway
- The PIIM service may be ordered for project cost estimation
- Allow 2 weeks notice to schedule the PIIM service





Siemens Sentron Busway Quick Reference

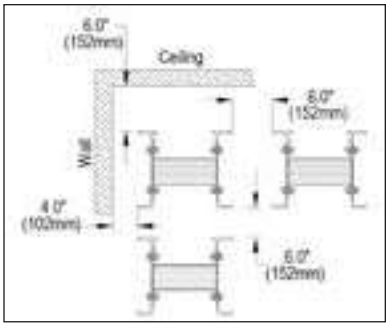
Critical Dimensions:

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



Feeder Busway minimal clearances

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

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 ONE-SIDED 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, at every transition to a vertical run, and at each building expansion joint.

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

Sentron Bus Plugs

Table of Contents



Non-Metered Sentron 3/6 Bus Plug



Sentron SLVB Bus Plug

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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 personel.

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)①
- 30-200 SLVBR Fusible (Riser)①
- 30-400 Circuit Breaker①
- 10-100A 3/6 Bus Plug (Horizontal)②

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:

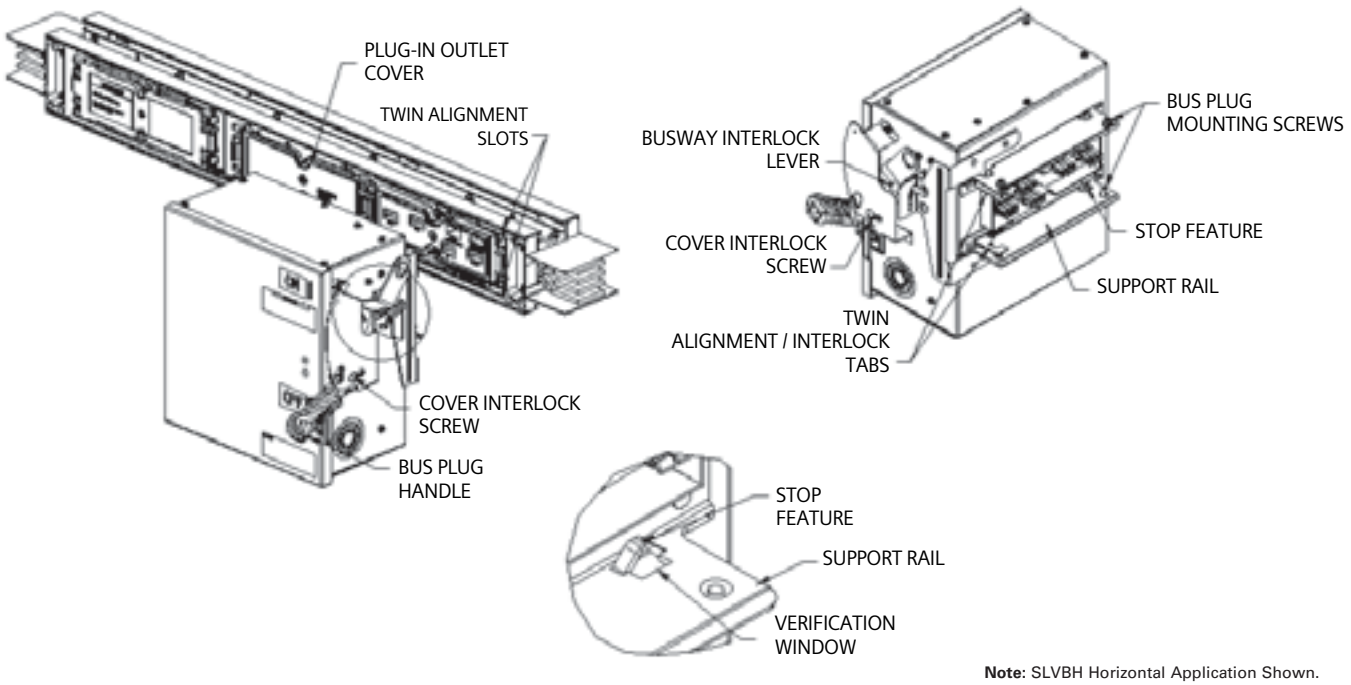
- IP40
- IP55

Conductors:

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

Grounding:

- Integral (Housing)
- Internal
- Isolated



Note: SLVBH Horizontal Application Shown.

① Contact Siemens for 200% Neutral Applications.
② IP55 enclosure not available.

Sentron Bus Plugs—Circuit Breaker (Installed)

S	L	E	C	S ①	3	2	0	1	5	0	G ②	E	D	2

Plug Type
SL = Sentron II

Circuit Breaker Frame
E =15–125A
F =70–250A
J =200–400A
L =250–600A
M =500–800A

Enclosure Type
C = Circuit Breaker Enclosure
L = Current Limiting Enclosure

Cradle Designation
S = 3Ø3W, 3Ø4W>400A 200%N>200A only

Configuration
3 = 3Ø, 3W
4 = 3Ø, 4W
5 = 3Ø, 4W 200% neutral③④

Breaker Voltage
2 = 240V⑤
4 = 480V⑥
6 = 600V

Ampere Trip Rating

IP Rating
0 = IP40
4 = IP55

Ground Designation
G = Internal Ground
IG = Isolated Ground

Circuit Breaker Frame Identification



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, SLEC32060ED2)
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, SLEC360150ED6)
③ Available through 250A only.
④ Available with E and F Frame breakers only.
⑤ Available with ED2 breakers only.
⑥ Available with ED4 and HHED6 breakers only.

Sentron® Bus Plugs

Circuit Breaker Bus Plugs

Overview

Standard Circuit Breakers, Bus Plug Ratings①

Plug-In Units Series	Circuit Breaker Max. Rating	Frame Size	Max. Short Circuit Current Rating
SLEC	125A, 600V	E Frame	100kA, 240V, 3 ph 65kA, 480V, 3 ph① 25kA, 600V, 3 ph
SLFC	250A, 600V	F Frame	200kA, 240V, 3 ph 100kA, 480V, 3 ph 25kA, 600V, 3 ph
SLJC	400A, 600V	J Frame	200kA, 240V, 3 ph 100kA, 480V, 3 ph 50kA, 600V, 3 ph
SLLCS	600A, 600V	L Frame	200kA, 240V, 3 ph 100kA, 480V, 3 ph 50kA, 600V, 3 ph
SLMCS	800A, 600V	M Frame	200kA, 240V, 3 ph 100kA, 480V, 3 ph 65kA, 600V, 3 ph

Current Limiting Circuit Breakers, Bus Plug Ratings①

Plug-In Units Series	Circuit Breaker Max. Rating	Frame Size	Max. Short Circuit Current Rating
SLEL	125A, 600V	CED Frame	200KA, 240V, 3 ph 200KA, 480V, 3 ph 100KA, 600V, 3 ph
SLFL	250A, 600V	CFD Frame	200KA, 240V, 3 ph 200KA, 480V, 3 ph 100KA, 600V, 3 ph
SLJL	400A, 600V	CJD Frame	200KA, 240V, 3 ph 150KA, 480V, 3 ph 100KA, 600V, 3 ph
SLLLS	600A, 600V	CLD Frame	200KA, 240V, 3 ph 150KA, 480V, 3 ph 100KA, 600V, 3 ph
SLMLS	800A, 600V	CMD Frame	200KA, 240V, 3 ph 100KA, 480V, 3 ph 65KA, 600V, 3 ph

Sentron Circuit Breaker Bus Plugs feature an easy to read "position indicator" label, designed to be visible from the floor, that clearly marks whether the bus plug is in the "Off," "On," or "Tripped" position. Circuit breaker bus plugs are available in frame sizes from 125 amps to 800 amps with interrupting ratings of standard, high or current limiting.

Circuit breaker bus plugs will be shipped complete with factory installed circuit breakers. The following Siemens molded case circuit breaker frames may be ordered with Sentron Circuit Breaker Bus Plugs: ED2, ED4, ED6, HED4, HHED6, CED6, FXD6, FD6, HFD6, CFD6 JXD6, JD6, HJD6, CJD6, LXD6, HLD6, CLD6, MXD6, HMD6, CMD6.

Refer to the diagram on page <?> for easy ordering instructions.

Sentron circuit breaker bus plugs can be custom configured to meet application specific requirements.

Consult your local Siemens sales office for details on custom pricing and ordering.

① Available in IP40 or IP55 variant.

Sentron® Bus Plugs

Bus Plugs with Standard Circuit Breakers①②③④

E Frame 3-Pole, 240 Volt, ED2 Breaker

Ampere Rating	Catalogue Number
15-60A	SLEC32***0ED2 SLEC32***0GED2 SLEC32***0IGED2
70-100A	SLEC32***0ED2 SLEC32***0GED2 SLEC32***0IGED2

E Frame 3-Pole, 480 Volt, ED4 Breaker

Ampere Rating	Catalogue Number
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

Ampere Rating	Catalogue Number
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

Ampere Rating	Catalogue Number
70-225A	SLFC36***0FXD6 SLFC36***0GFXD6 SLFC36***0IGFXD6
250A	SLFC362500FXD6 SLFC362500GFXD6 SLFC362500IGFXD6

J Frame 3-Pole, 600 Volt, JXD6 Breaker

Ampere Rating	Catalogue Number
200-400A④	SLJC36***0JXD6 SLJC36***0GJXD6 SLJC36***0IGJXD6

L Frame 3-Pole, 600 Volt, LXD6 Breaker

Ampere Rating	Catalogue Number
450-600A④	SLLCS36***0LXD6 SLLCS36***0GLXD6 SLLCS36***0IGLXD6

M Frame 3-Pole, 600 Volt, MXD6 Breaker

Ampere Rating	Catalogue Number
500-800A④	SLMCS36***0MXD6 SLMCS36***0GMXD6 SLMCS36***0IGMXD6

E Frame 4-Pole, 240 Volt, ED2 Breaker

Ampere Rating	Catalogue Number
15-60A	SLEC42***0ED2 SLEC42***0GED2 SLEC42***0IGED2
70-100A	SLEC42***0ED2 SLEC42***0GED2 SLEC42***0IGED2

E Frame 200% Neutral

Ampere Rating	Catalogue Number
15-60A	SLEC52***0ED2 SLEC52***0GED2 SLEC52***0IGED2
70-100A	SLEC52***0ED2 SLEC52***0GED2 SLEC52***0IGED2

E Frame 4-Pole, 480 Volt, ED4 Breaker

Ampere Rating	Catalogue Number
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 200% Neutral

Ampere Rating	Catalogue Number
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 4-Pole, 600 Volt, ED6 Breaker

Ampere Rating	Catalogue Number
15-60A	SLEC46***0ED6 SLEC46***0GED6 SLEC46***0IGED6
70-100A	SLEC46***0ED6 SLEC46***0GED6 SLEC46***0IGED6
110-125A	SLEC46***0ED6 SLEC46***0GED6 SLEC46***0IGED6

E Frame 200% Neutral

Ampere Rating	Catalogue Number
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 4-Pole, 600 Volt, FXD6 Breaker

Ampere Rating	Catalogue Number
70-225A	SLFC46***0FXD6 SLFC46***0GFXD6 SLFC46***0IGFXD6
250A	SLFC462500FXD6 SLFC462500GFXD6 SLFC462500IGFXD6

F Frame 200% Neutral

Ampere Rating	Catalogue Number
70-200A	SLFC56***0FXD6 SLFC56***0GFXD6 SLFC56***0IGFXD6
225-250A	SLFC56***0FXD6 SLFC56***0GFXD6 SLFC56***0IGFXD6

J Frame 4-Pole, 600 Volt, JXD6 Breaker

Ampere Rating	Catalogue Number
200-400A④	SLJC46***0JXD6 SLJC46***0GJXD6 SLJC46***0IGJXD6

L Frame 4-Pole, 600 Volt, LXD6 Breaker

Ampere Rating	Catalogue Number
450-600A④	SLLCS46***0LXD6 SLLCS46***0GLXD6 SLLCS46***0IGLXD6

M Frame 4-Pole, 600 Volt, MXD6 Breaker

Ampere Rating	Catalogue Number
500-800A④	SLMCS46***0MXD6 SLMCS46***0GMXD6 SLMCS46***0IGMXD6

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. Spring kits are automatically included when 400A and larger bus plug is selected.

① Replace "***" with breaker trip rating.
Example: SLEC36**060**ED6, 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. SLJC36100**JXD6**
L Frame: Ex. SLLCS365004LXD6
M Frame: Ex. SLMCS368004MXD6

③ For the following breaker substitutions, change the catalogue number suffix:
15-60A: HHED6 Ex. SLEC36***0**HHED6**
70-100A: HHED6 Ex. SLEC36***0**HHED6**
110-125A: HHED6 Ex. SLEC36***0**HHED6**
F Frame: FD6 Ex. SLFC36***0**FD6**
F Frame: HFD6 Ex. SLFC36***0**HFD6**
J Frame: JD6 Ex. SLJC36***0**JD6**
J Frame: HJD6 Ex. SLJC36***0**HJD6**
L Frame: LD6 Ex. SLLCS36***0**LD6**
L Frame: HLD6 Ex. SLLCS36***0**HLD6**
M Frame: MD6 Ex. SLMCS36***0**MD6**
M Frame: HMD6 Ex. SLMCS36***0**HMD6**

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

Sentron® Bus Plugs

Bus Plugs with Current Limiting Circuit Breakers①②

Selection

E Frame 3-Pole, 600 Volt, CED6 Breaker

Ampere Rating	Catalogue Number
15-60A	SLEL36***0CED6 SLEL36***0GCED6 SLEL36***0IGCED6
70-100A	SLEL36***0CED6 SLEL36***0GCED6 SLEL36***0IGCED6
110-125A	SLEL36***0CED6 SLEL36***0GCED6 SLEL36***0IGCED6

E Frame 4-Pole, 600 Volt, CED6 Breaker

Ampere Rating	Catalogue Number
15-60A	SLEL46***0CED6 SLEL46***0GCED6 SLEL46***0IGCED6
70-100A	SLEL46***0CED6 SLEL46***0GCED6 SLEL46***0IGCED6
110-125A	SLEL46***0CED6 SLEL46***0GCED6 SLEL46***0IGCED6

E Frame 200% Neutral

Ampere Rating	Catalogue Number
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 3-Pole, 600 Volt, CFD6 Breaker

100-225A	SLFL36***0CFD6 SLFL36***0GCFD6 SLFL36***0IGCFD6
250A	SLFL362500CFD6 SLFL362500CGFD6 SLFL362500ICGFD6

F Frame 4-Pole, 600 Volt, CFD6 Breaker

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

F Frame 200% Neutral

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

J Frame 3-Pole, 600 Volt, CJD6 Breaker

200-400A③	SLJL36***0CJD6 SLJL36***0CGJD6 SLJL36***0ICGJD6

J Frame 4-Pole, 600 Volt, CJD6 Breaker

200-400A③	SLJL46***0CJD6 — SLJL46***0GCJD6 — SLJL46***0IGCJD6 —

J Frame 200% Neutral

200A③	SLJL562000CJD6 SLJL562000GCJD6 SLJL562000IGCJD6
225-400A③	SLJLS56***0CJD6 SLJLS56***0GCJD6 SLJLS56***0IGCJD6

L Frame 3-Pole, 600 Volt, CLD6 Breaker

450-600A③	SLLLS36***0CLD6 SLLLS36***0GCLD6 SLLLS36***0IGCLD6

L Frame 4-Pole, 600 Volt, CLD6 Breaker

450-600A③	SLLLS46***0CLD6 SLLLS46***0GCLD6 SLLLS46***0IGCLD6

M Frame 3-Pole, 600 Volt, CMD6 Breaker

500-800A③	SLLLS36***0CMD6 SLLLS36***0GCMD6 SLLLS36***0IGCMD6

M Frame 4-Pole, 600 Volt, CMD6 Breaker

500-800A③	SLLLS46***0CMD6 SLLLS46***0GCMD6 SLLLS46***0IGCMD6

① Replace "***" with breaker trip rating.
Example: SLEC36**060**ED6, 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

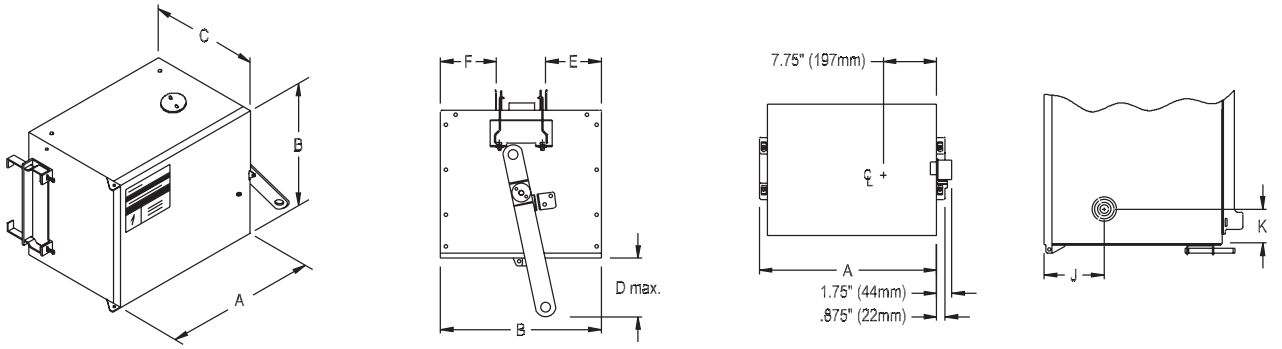
③ 400A and larger bus plugs that require auxiliary support. See also SXSK Spring Kit.

Circuit Breaker Bus Plugs Dimensions and Weights

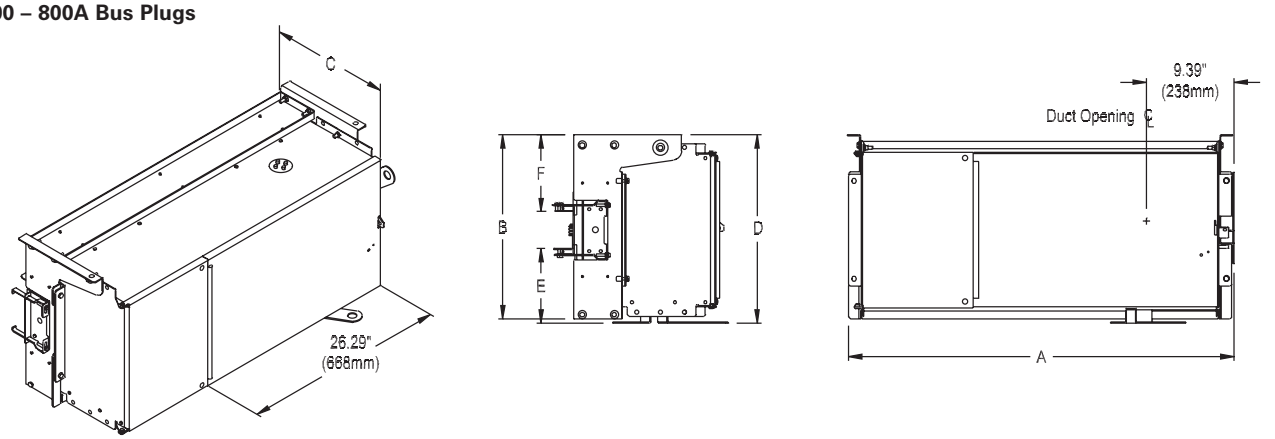
Circuit Breaker Bus Plugs, Dimensions and Weights (Enclosure only)

Ampere Rating	Dimensions Inches (mm) "A"①	"B"	"C"	"D" max.	"E"	"F"	"J"	"K"	Weight lbs (kg)
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



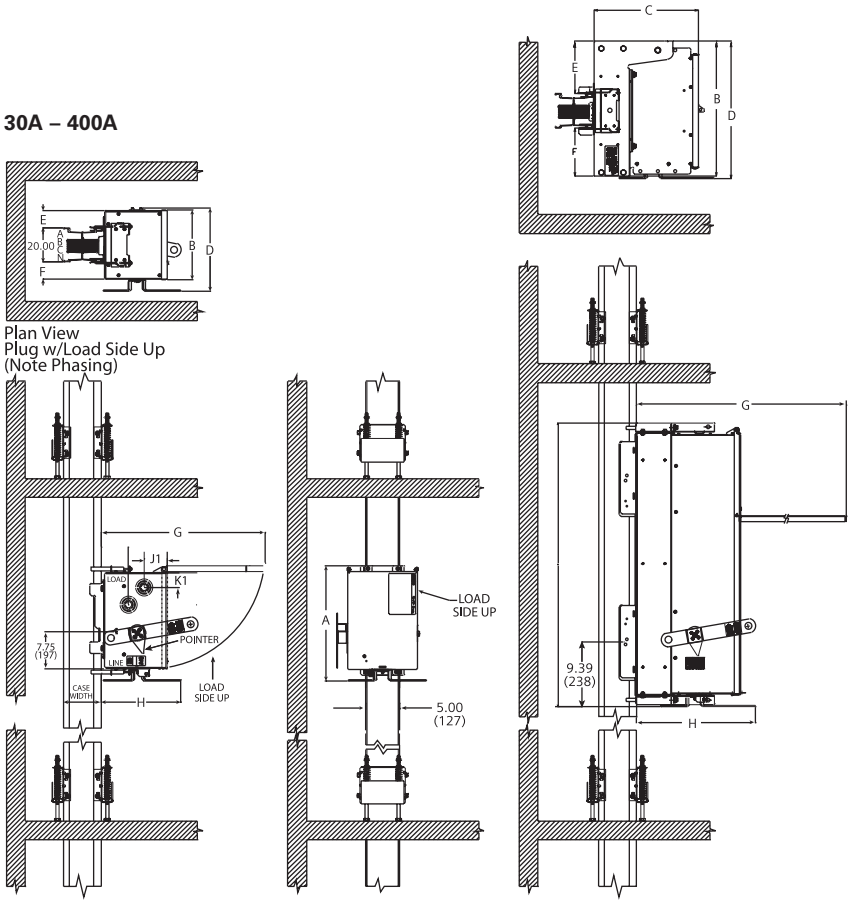
Circuit Breaker Bus Plugs, Load Lugs and Knockouts

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)
F Frame	#14-2	#6-350 kcmil	#6-350 kcmil	7/8 (22)
J Frame	#14-2	(2) #4-500 kcmil	(2) 3/0-500 kcmil	7/8 (22)
L Frame	#6-350 kcmil	(2) 3/0-500 kcmil	(2) 3/0-500 kcmil	No Knockouts
J Frame	(2) #4-500 kcmil	(3) #1-500 kcmil	(3) #1-500 kcmil	No Knockouts

① Current limiting breakers add 5-7 inches to dimension A, depending upon breaker amperage.

600A and 800A Cradle Mounted

30A – 400A



Dim. Legend	Circuit Breaker Plugs No Cradle						Circuit Breaker Plugs w/Cradle			
	E Frame Current		F Frame① Current		J Frame① 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)①	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)

① 200%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.

Catalogue Numbering System

Sentron SLVB Bus Plugs—Fusible

S	L	V	B	R	3	2	1	0	G ①

Plug Type
SL = Sentron II

Heavy Duty Fusible Switch
VB

Orientation
R = Vertical
H = Horizontal

Configuration (Poles/Wires)
3 = 3Ø3W
4 = 3Ø4W
5 = 3Ø4W 200% Neutral②

Voltage
2 = 240V
6 = 600V

Max Ampere Rating
1 = 30A
2 = 60A
3 = 100A
4 = 200A
5 = 400A
6 = 600A

IP Rating
0 = IP40
4 = IP55

Ground Designation
G = Internal Ground
IG = Isolated Ground



① 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, SLEC360150ED6)
② Available through 400A only.

Fusible Bus Plugs

The Sentron SLVB Bus Plug meets all UL and CSA standards to assure reliable performance in all environments. The installer and end user will appreciate new features like Highly Visible Position Indicator, Dual Stab Busway Interlocks, Dual Cover Interlocks, and Bolt-on Mounting.

Sentron SLVB Fusible Bus Plugs are available in 30, 60, 100, 200, 400 and 600 amp ratings (compatible with H, R, T, K and J fuses).



Standard Fusible, Bus Plug Ratings

Plug-In Units Series	Max. Rating Fused Switch	Fuse Class	Fuse Kits		Max. Short Circuit Current Rating
			R Fuse Kits	T Fuse Kits	
SLVB_21	30A, 240V	H, K, R	SLR2030	—	200kA, 240V, 3ph
SLVB_61	30A, 600V	H, K, R, J	SLR6030	—	200kA, 600V, 3ph
SLVB_22	60A, 240V	H, K, R	SLR2060	—	200kA, 240V, 3ph
SLVB_62	60A, 600V	H, K, R, J	SLR6060	—	200kA, 600V, 3ph
SLVB_23	100A, 240V	H, K, R, J, T	SLR2100	SLT2100	200kA, 240V, 3ph
SLVB_63	100A, 600V	H, K, R, J, T	SLR6100	SLT6100	200kA, 600V, 3ph
SLVB_24	200A, 240V	H, K, R, J, T	SLR2200	SLT2200	200kA, 240V, 3ph
SLVB_64	200A, 600V	H, K, R, J, T	SLR6200	SLT6200	200kA, 600V, 3ph
SLVB_25	400A, 240V	H, K, R, J, T	SLR2400	SLT2400	200kA, 240V, 3ph
SLVB_65	400A, 600V	H, K, R, J, T	SLR6400	SLT6400	200kA, 600V, 3ph
SLVB_26	600A, 240V	H, K, R, J, T	SLR2600	SLT2600	200kA, 240V, 3ph
SLVB_66	600A, 600V	H, K, R, J, T	SLR6600	SLT6600	200kA, 600V, 3ph

Standard Fusible, Bus Plug Horsepower Ratings

Plug-In Units Series	Fused Switch Max. Rating	240V, 1 ph		240V, 3 ph		480V, 3 ph		600V, 3 ph	
		Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.
SLVB_21	30A, 240V	1.5	3.0	3.0	7.5	—	—	—	—
SLVB_61	30A, 600V	—	—	—	—	5.0	15.0	7.5	20.0
SLVB_22	60A, 240V	3.0	10.0	7.5	15.0	—	—	—	—
SLVB_62	60A, 600V	—	—	—	—	15.0	30.0	15.0	50.0
SLVB_23	100A, 240V	7.5	15.0	15.0	30.0	—	—	—	—
SLVB_63	100A, 600V	—	—	—	—	25.0	60.0	30.0	75.0
SLVB_24	200A, 240V	15.0	—	25.0	60.0	—	—	—	—
SLVB_64	200A, 600V	—	—	—	—	50.0	125.0	60.0	150.0
SLVB_25	400A, 240V	15.0	—	50.0	125.0	—	—	—	—
SLVB_65	400A, 600V	—	—	—	—	100.0	250.0	125.0	350.0
SLVB_26	600A, 240V	15.0	—	75.0	200.0	—	—	—	—
SLVB_66	600A, 600V	—	—	—	—	150.0	400.0	200.0	500.0

Sentron® SLVB Bus Plugs

Bus Plugs / Fusible Plugs

Ampere Rating	Catalogue Number
3-Pole, 250 Volt①	
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
400A②	SLVB*3250 SLVB*3250G SLVB*3250IG
600A②	SLVB*3260 SLVB*3260G SLVB*3260IG

Ampere Rating	Catalogue Number	Catalogue Number
4-Pole, 250 Volt,①		**200% Neutral①**
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
400A②	SLVB*4250 SLVB*4250G SLVB*4250IG	SLVB*5250 SLVB*5250G SLVB*5250IG
600A②	SLVB*4260 SLVB*4260G SLVB*4260IG	

Ampere Rating	Catalogue Number
3-Pole, 600 Volt①	
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
400A②	SLVB*3650 SLVB*3650G SLVB*3650IG
600A②	SLVB*3660 SLVB*3660G SLVB*3660IG

Ampere Rating	Catalogue Number	Catalogue Number
4-Pole, 600 Volt①		**200% Neutral①**
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
400A②	SLVB*4650 SLVB*4650G SLVB*4650IG	SLVB*5650 SLVB*5650G SLVB*5650IG
600A②	SLVB*4660 SLVB*4660G SLVB*4660IG	

Note: Replace * in catalog 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.	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. Spring kits are automatically included when 400A and larger bus plug is selected.

Fuse Adapter Kits

Switch Rating	Std Fuse Class	Class R Catalogue Number	Class T Catalogue Number	Class J Catalogue Number
250V				
30A③	H, K	SLR2030		
60A③	H, K	SLR2060		
100A③	H, K	SLR2100	SLT2100	
200A③	H, K	SLR2200	SLT2200	
400A②	H, K, J	SLR2400	SLT2400	
600A②	H, K, J	SLR2600	SLT2600	SLJ2600
600V				
30A③	H, K, J	SLR6030		
60A③	H, K, J	SLR6060		
100A③	H, K, J	SLR6100	SLT6100	
200A③	H, K, J	SLR6200	SLT6200	
400A②	H, K, J	SLR6400	SLT6400	
600A②	H, K, J	SLR6600	SLT6600	SLJ6600

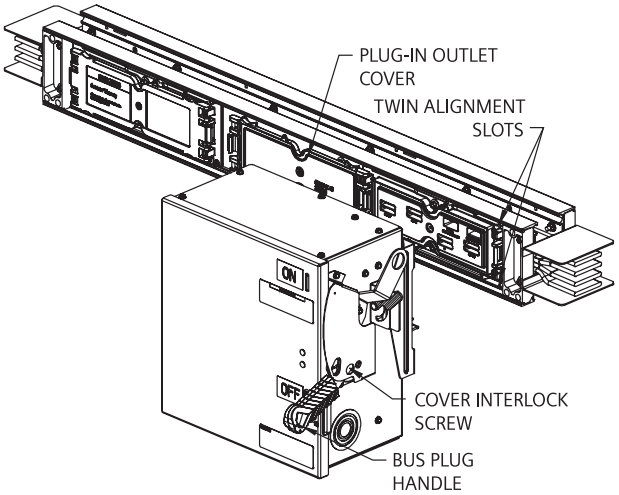
① All plugs shown are rated IP40; if IP55 rating is desired, substitute a "4" for "0" in position 8.

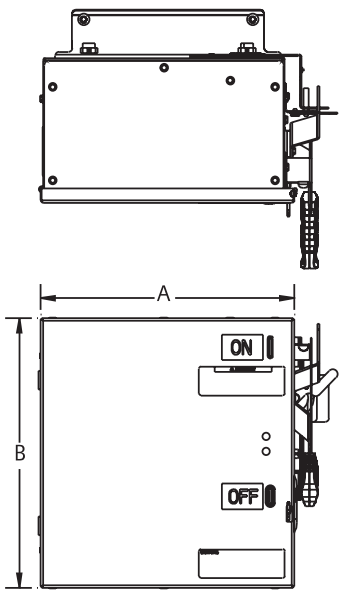
② 400A and larger bus plugs require auxiliary support. See also SXSK Spring Kit.

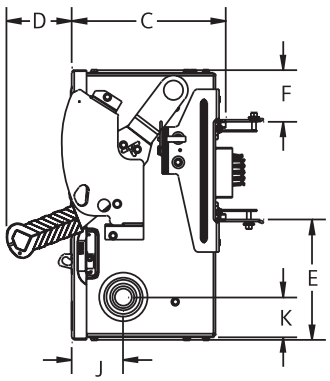
③ Fuse kits per page 3-21, General and Heavy Duty Safety Switch Accessories.

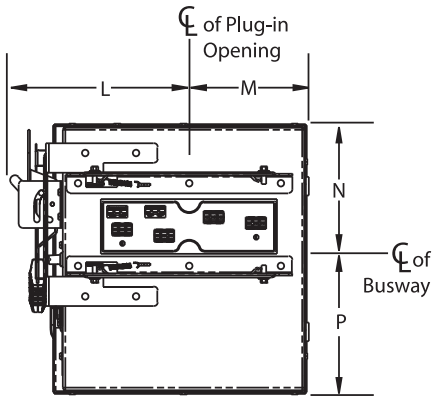
Horizontal Fusible Bus Plug Dimensions and Weighs (Enclosure Only)

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)	5.27 (134)	17.59 (447)	49.0 (22.22)
400	18.63 (473)	25.48 (647)	15.67 (398)	5.50 (140)	12.67 (322)	7.67 (195)	12.15 (309)	3.06 (78)	11.80 (299)	9.43 (239)	11.91 (303)	15.14 (385)	100.0 (254)
600	18.63 (473)	25.48 (647)	15.67 (398)	5.50 (140)	12.67 (322)	7.67 (195)	12.15 (309)	3.06 (78)	11.80 (299)	9.43 (239)	11.91 (303)	15.14 (385)	100.0 (254)





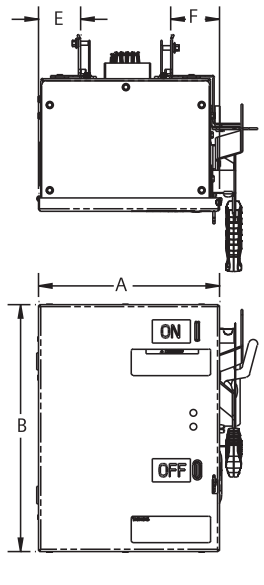


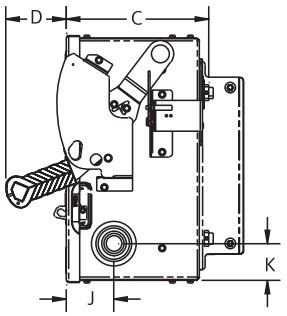


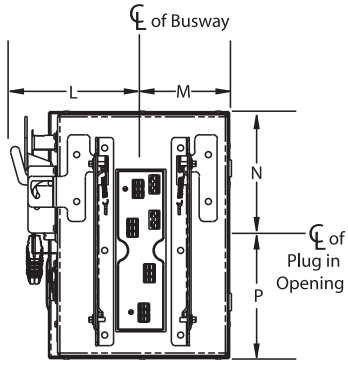
Fusible Bus Plugs Dimensions and Weights

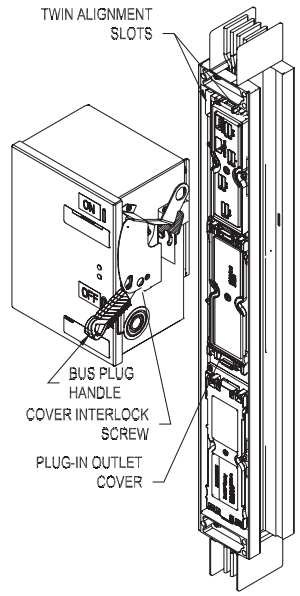
Riser Fusible Bus Plug Dimensions and Weighs (Enclosure Only)

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)	7.8 (198)	6.06 (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)	7.8 (198)	7.06 (179)	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)	7.8 (198)	8.06 (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)	9.05 (230)	13.81 (351)	49.0 (22.22)
400	18.63 (473)	25.48 (647)	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)	25.48 (647)	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)







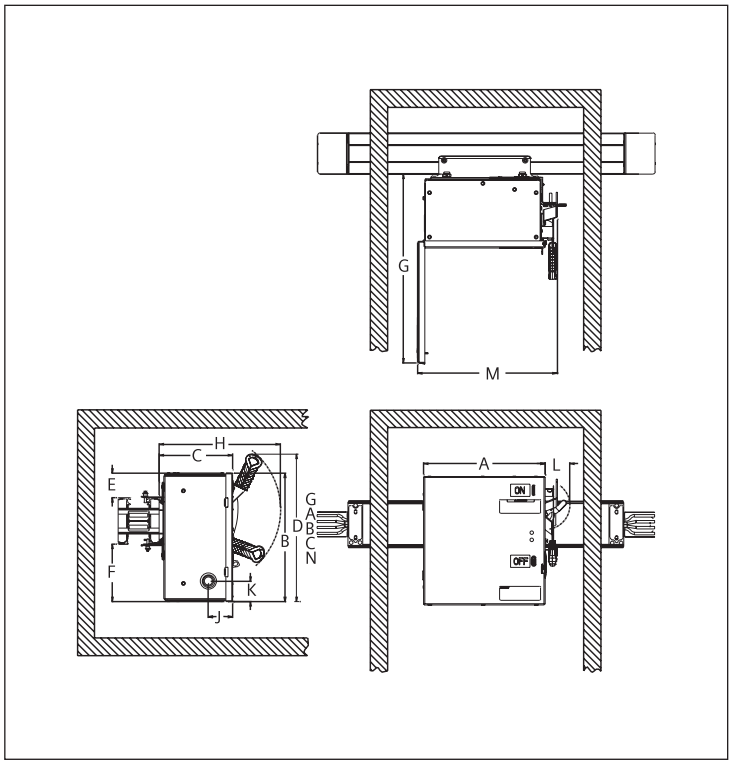


Fusible Switch Plug, Load Lugs, and Knockouts

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)
60	#14-1/0	#14-1/0	#14-2	7/8 (22)
100	#14-1/0	#14-1/0	#14-1/0	7/8 (22)
200	#14-1/0	#6-300MCM	#6-300MCM	7/8 (22)
400	(2)#6-350MCM	(2) 1/0-250MCM or (1) 1/0-750MCM	(2) 1/0-250MCM or (1) 1/0-750MCM	7/8 (22)
600	(2)#6-350MCM	(4) 1/0-250MCM or (2) 1/0-750MCM	(4) 1/0-250MCM or (2) 1/0-750MCM	7/8 (22)

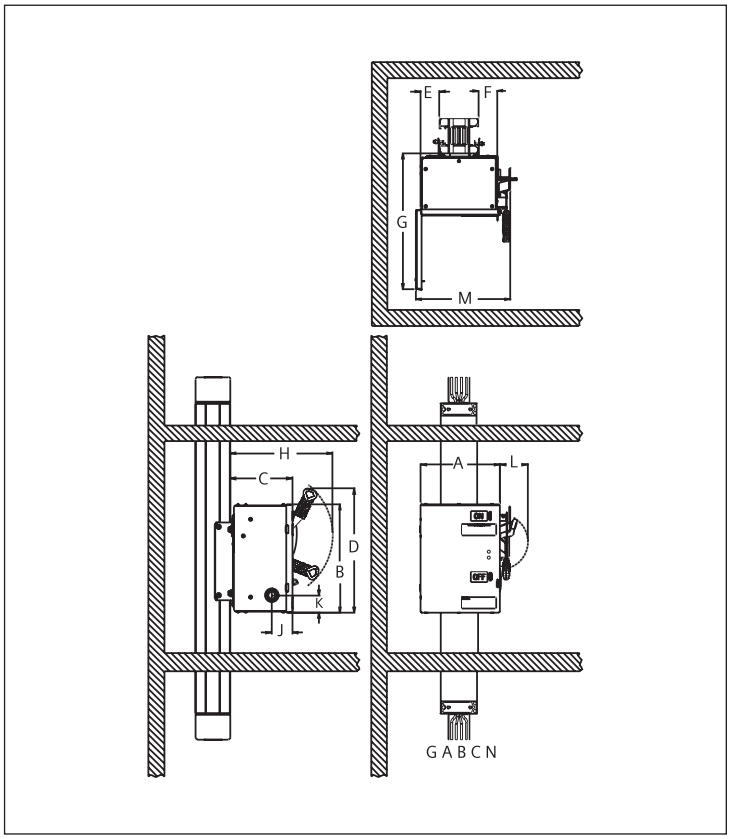
Wall Clearance and Bus Plug Dimensions Horizontal (Inches/mm)

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 (237)	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)



The Siemens advantage...

Siemens history of innovation and safety continues with our line of UL 1449 4th 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 4th 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

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

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

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





Sentron® SLVB Bus Plugs

Sentron SPD Bus Plugs

Catalog Number Logic

Sentron SPD Bus Plug Numbering System

S	T	P	H	4	4	G	E	0	6	2	4		

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

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
L = 600Y/347V 3Ø 4W

TPS Model Number
01 = TPS3 01③
1L = TPS3 L1 (10 Mode)①③
06 = TPS3 06③
6L = TPS3 L6 (10 Mode)①③
09 = TPS3 09②

Surge Current (kA)

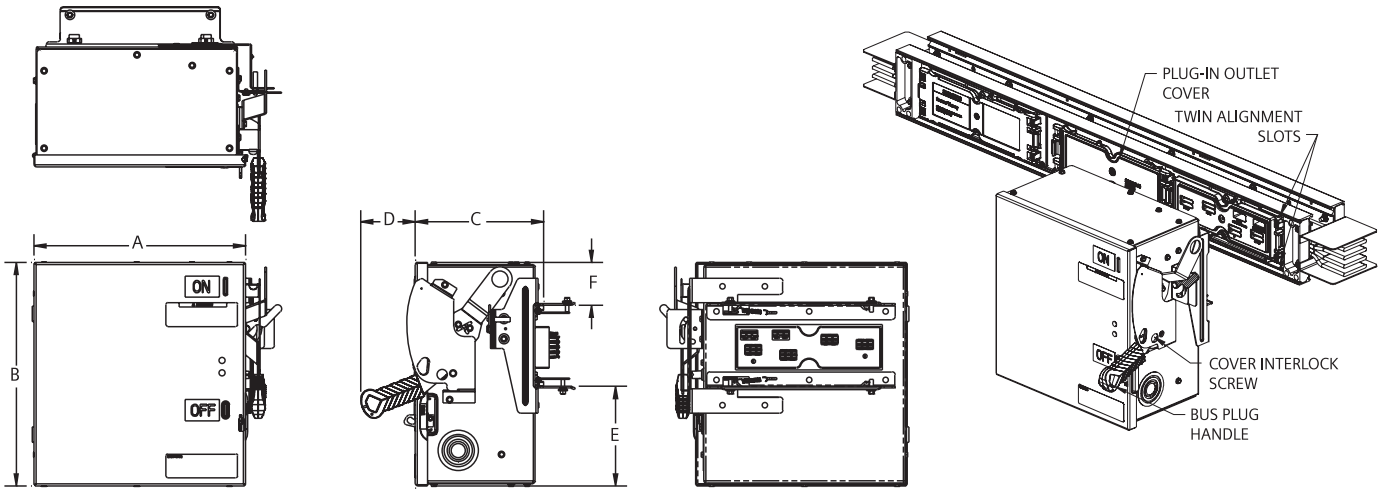
10 = 100kA per Phase	TPS3 01, TPS3 09
15 = 150kA per Phase	TPS3 L1
20 = 200kA per Phase	TPS3 01
25 = 250KA per phase	TPS3 01
30 = 300kA per Phase	TPS3 01, TPS3 L1
40 = 400kA per Phase	TPS3 06
45 = 450kA per Phase	TPS3 L6
50 = 500kA per Phase	TPS3 06

Options
TPS3 01 and TPS3 06:
R = Remote Monitor
X = Surge Counter
TPS 9:
D = Dry Contact & Audible Alarm

Notes:
① 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.
② Standard features: indicator lights.
③ Standard features: indicator lights, dry contacts, audible alarm with silence switch, test button.

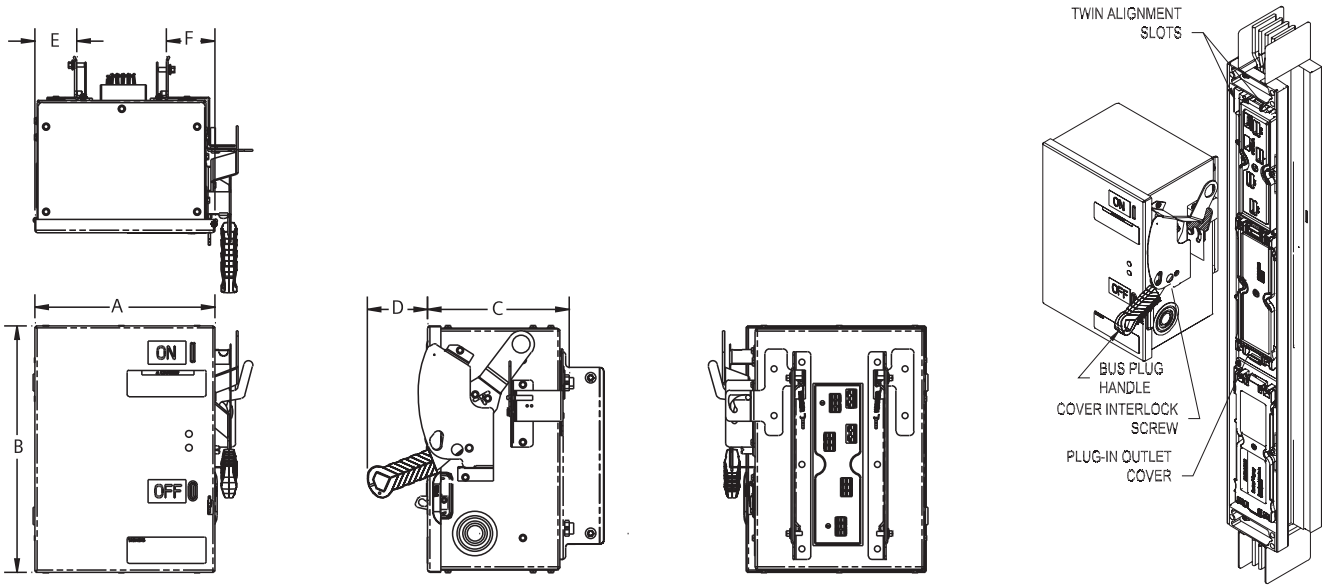
Horizontal SPD bus plugs dimensions and weights

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)



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)

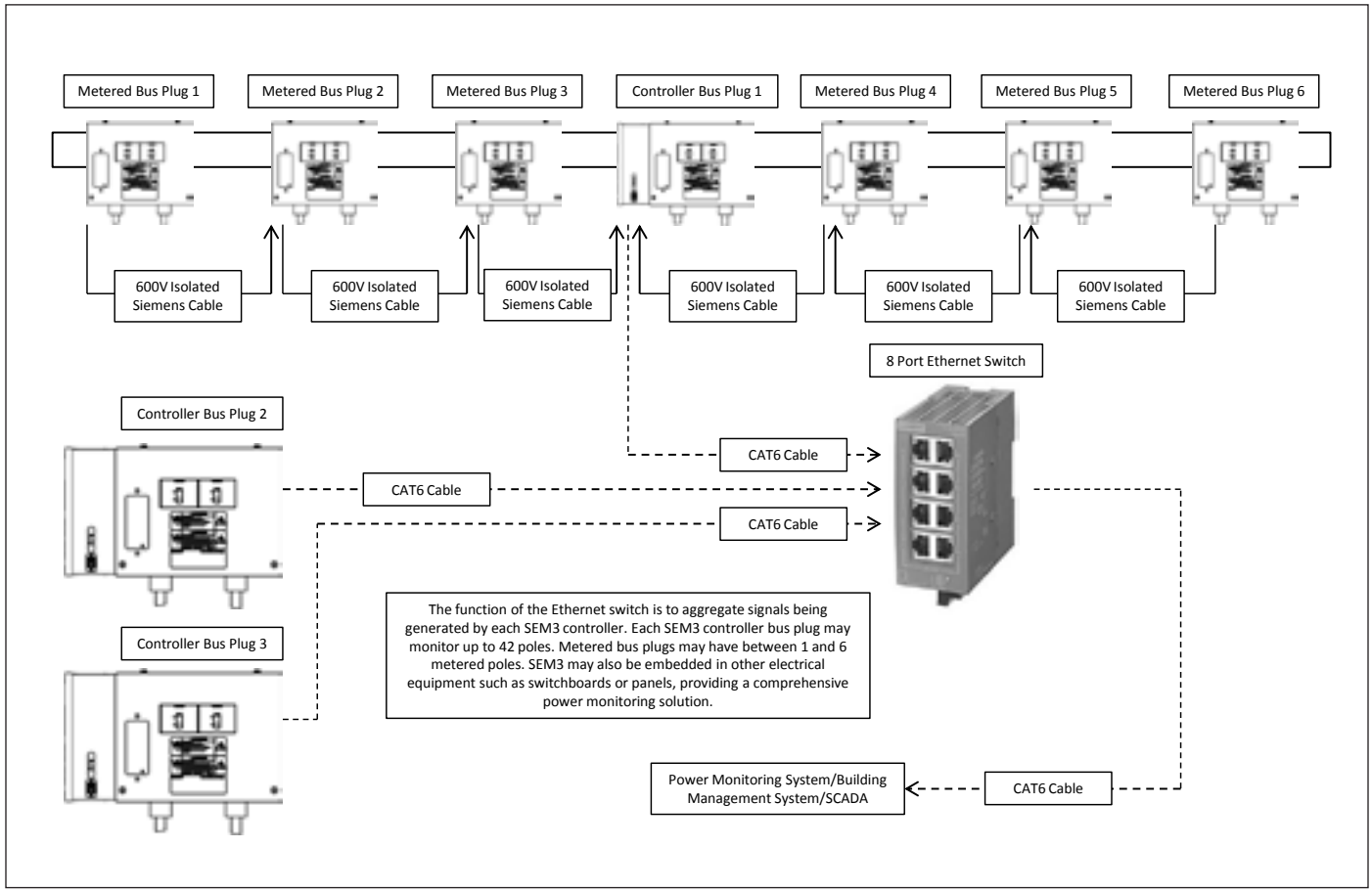


Product Overview

The Sentron 3/6 bus plug is designed for light industrial, commercial, and data center applications. Factory installed receptacles range from 10 to 100A per pole, and the bus plug allows for anywhere between 1 and 6 poles of distribution (i.e. two 3Ø receptacles per plug). This product combines plug-and-play capabilities, minimizing installation time and cost, with the option for preconfigured embedded branch circuit metering utilizing SEM3™.

Product Application

Building your metered network of Sentron 3/6 bus plugs is easy. There are two variations of metered bus plugs, simple meter plugs (child) and controller plugs (parent). Each SEM3™ controller can monitor 42 bus plug poles. Depending on the number of metered poles per bus plug in the network, one parent controller plug can monitor between 6 to 41 bus plugs. An example showing a network of seven 6-pole bus plugs is shown below (in this case there is one controller and six metered plugs). Upstream of the controller, outputs from multiple controller plugs may be consolidated at an Ethernet switch (shown below) or integrated directly into a building or site management system.



Sentron 3/6 Bus Plugs—Circuit Breaker (Installed)



Prefix
BP = Bus Plug

Type
S = Sentron

Enclosure
A =13 x 10in (60A max branch, corded receptacle)
C = 13 x 14in (60A max branch, flush mount receptacle)
D = 13 x 14in (100A max branch, any receptacle)

System Configuration
1 = 3Ø
2 = 3Ø + Internal Grd
3 = 3Ø + Isolated Grd
5 = 3Ø + Neutral
6 = 3Ø + Neutral + Internal Grd
7 = 3Ø + Neutral + Isolated Grd
9 = 3Ø + 200% Neutral
0 = 3Ø + 200% Neutral + Internal Grd
Z = 3Ø + 200%

Color
A = Graphite
G = ANSI 61
X = Other

Connection Type
0 = Enclosure Only
1 = Breaker Only
2 = Flush Mount Receptacle
3 = 3ft Corded Connector
4 = 5ft Corded Connector
5 = 7ft Corded Connector
6 = 10ft Corded Connector
7 = Custom

Number of Circuits and Phasing
A1-D4

Breaker Frame
A = BL
B = BLH
C = HBL
D = BQD
E = NGB

Device Amps
00 = No Breaker

9A = 10A	**9H** = 45A
9B = 15A	**9J** = 50A
9C = 20A	**9K** = 60A
9D = 25A	**9L** = 70A
9E = 30A	**9M** = 80A
9F = 35A	**9N** = 90A
9G = 40A	**9P** = 100A

Metering System
N = None
C = SEM3 Controller
M = SEM3 Meter Only

Meter Type
N = None
G = 3 Meter Rack, Low Accuracy Meters
H = 3 Meter Rack, High Accuracy Meters
X = 6 Meter Rack, Low Accuracy Meters
Y = 6 Meter Rack, High Accuracy Meters

Product Configurations

Field Wire-able Bus Plug

- Enclosure height of 14.20"
- Customer supplied receptacle or corded connector
- Stocking program for specific variants

Non-Metered Bus Plug

- Standard enclosure height of 10.18" at 60A (per pole) and below
- Enclosure height of 14.20" for all surface mounted receptacle variants
- Factory installed corded or surface mount receptacles/connectors

Metered Bus Plug

- Standard enclosure height of 10.18" at 60A (per pole) and below
- Enclosure height of 14.20" for all surface mounted receptacle variants
- Factory installed corded or surface mount receptacles/connectors
- Preconfigured SEM3 meter rack (slave)

Controller Bus Plug

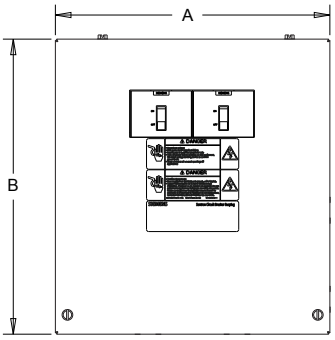
- Standard enclosure height of 10.18" at 60A (per pole) and below
- Enclosure height of 14.20" for all surface mounted receptacle variants
- Factory installed corded or surface mount receptacles/connectors
- Preconfigured SEM3 meter rack and controller (master)

Product Configurations

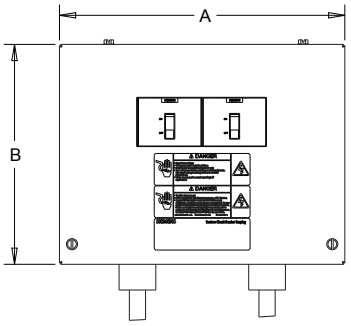
Circuit	**• 1-6 poles of distribution • 10-100A per pole • 100 and 200% neutral options**
Siemens Breaker Frames	BL, BLH, HBL, BQD, NGB
Load Connection	• Field wired (with KO's), no receptacles • Surface or flush mount receptacles • Corded Connector(s) or receptacle(s) at 3, 5, 7, or 10 ft
Branch Circuit Metering (SEM3™)	• Meter only lug or meter and controller plug • 3 and 6 meter racks available • Low (1%) and high (.2%) accuracy meters available



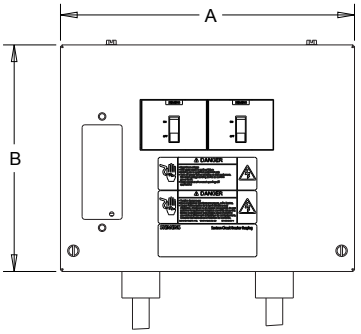
Field Wire-able Bus Plug



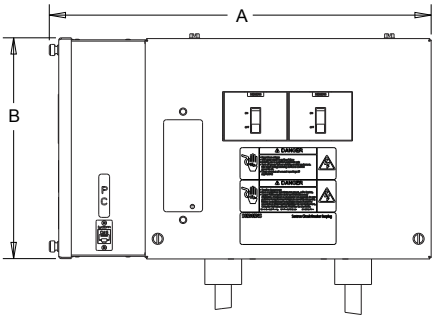
Non-Metered Bus Plug



Metered Bus Plug



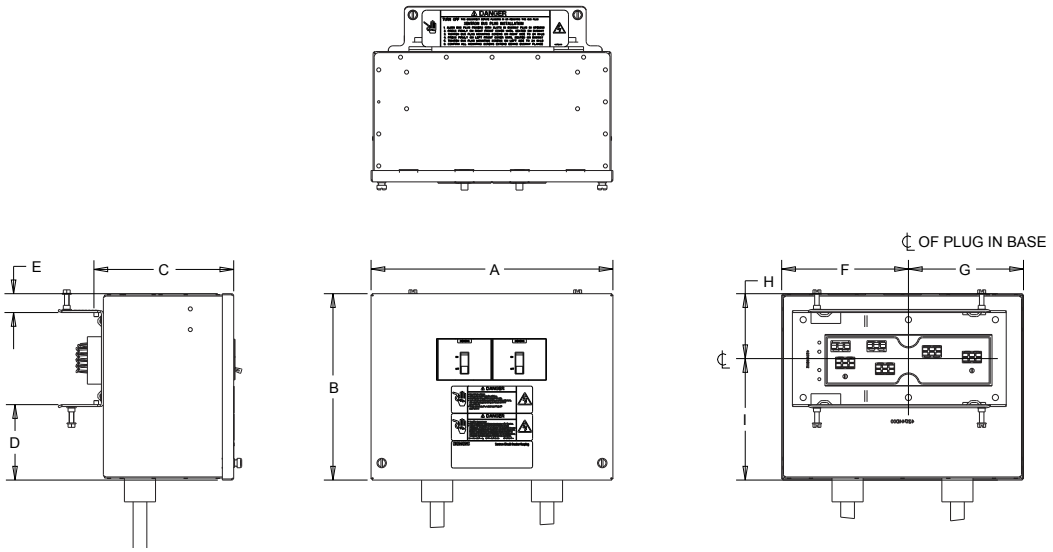
Controller Bus Plug



Corded Bus Plug (Non-Metered and Metered) Dimensions and Weights

Ampere Rating	Dimensions inches (mm)									
	"A"	"B"	"C"	"D".	"E"	"F"	"G"	"H"	"I"	Weight lbs. (kgs)*
10-60A	13.21 (336)	10.18 (259)	7.64 (194)	4.12 (105)	1.03 (26)	6.93 (176)	6.29 (160)	3.55 (90)	6.64 (169)	21 (9.52)
70-100A	13.21 (336)	14.20 (361)	7.64 (194)	8.12 (206)	1.03 (26)	6.93 (176)	6.29 (160)	3.55 (90)	10.64 (270)	23 (10.43)

*Approximate weight without cord of heaviest plug in amperage range.



Corded Bus Plug (Controller) Dimensions and Weights

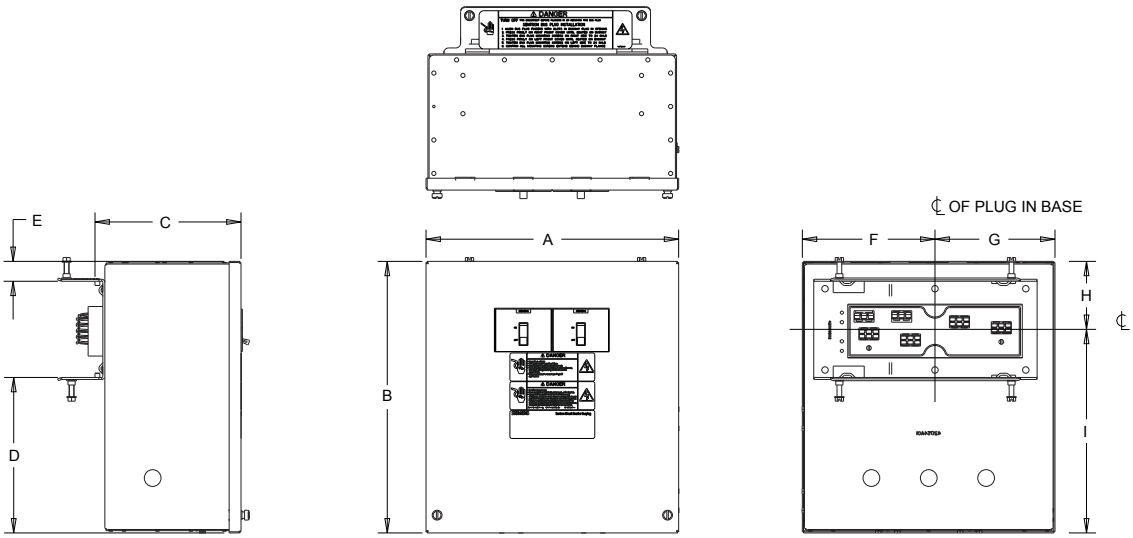
Ampere Rating	Dimensions inches (mm)									
	"A"	"B"	"C"	"D".	"E"	"F"	"G"	"H"	"I"	Weight lbs. (kgs)*
10-60A	17.64 (448)	10.20 (259)	7.64 (194)	4.12 (105)	1.03 (26)	6.93 (176)	10.71 (272)	3.55 (90)	6.64 (169)	29 (13.15)
70-100A	17.64 (448)	14.20 (361)	7.64 (194)	8.12 (206)	1.03 (26)	6.93 (176)	10.71 (272)	3.55 (90)	10.64 (270)	31 (14.06)

*Approximate weight without cord of heaviest plug in amperage range.

Surface Mount Receptacle Bus Plug (Non-Metered and Metered) Dimensions and Weights

Ampere Rating	Dimensions inches (mm)									Weight lbs. (kgs)*
	"A"	"B"	"C"	"D".	"E"	"F"	"G"	"H"	"I"	
10-100A	13.21 (336)	14.20 (361)	7.64 (194)	8.12 (206)	1.03 (26)	6.93 (176)	6.29 (160)	3.55 (90)	10.64 (270)	23 (10.43)

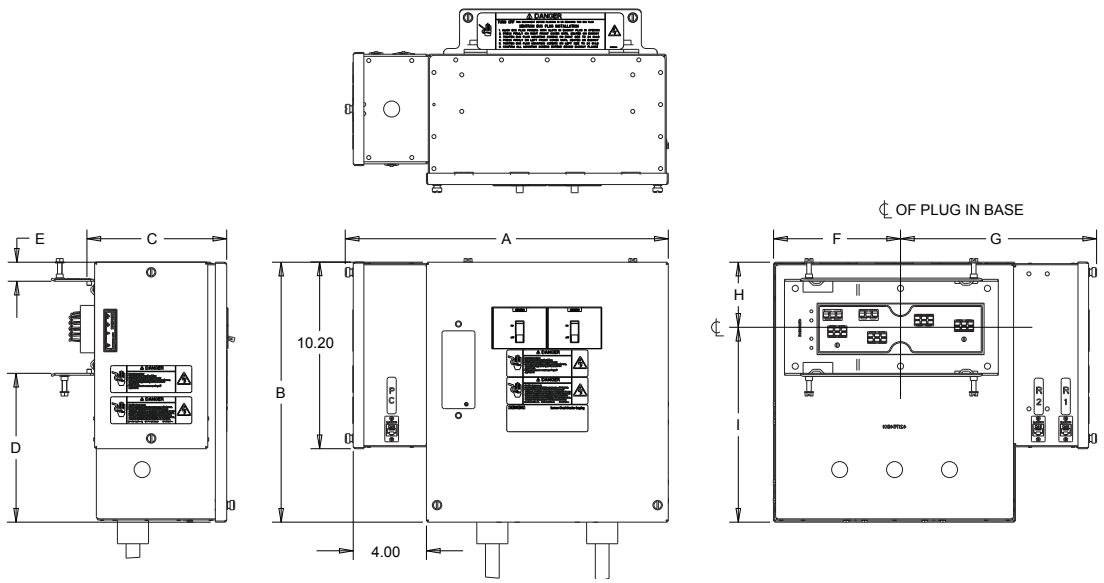
*Approximate weight without cord of heaviest plug in amperage range.



Surface Mount Receptacle Bus Plug (Controller) Dimensions and Weights

Ampere Rating	Dimensions inches (mm)									Weight lbs. (kgs)*
	"A"	"B"	"C"	"D".	"E"	"F"	"G"	"H"	"I"	
10-100A	17.64 (448)	14.20 (361)	7.64 (194)	8.12 (206)	1.03 (26)	6.93 (176)	10.71 (272)	3.55 (90)	10.64 (270)	33 (14.97)

*Approximate weight without cord of heaviest plug in amperage range.



XJ-L™ HD Busway System

XJ-L HD Busway Introduction

Competitive Advantages

XJ-L HD Busway is available up to 400A. XJ-L Busway is 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
- 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, 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 the entire product range.

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 critical power, manufacturing, laboratory 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 critical power 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 isolated 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 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 Gray or Graphite Gray. 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 locatons. The plastic, non-tracking outlets are located on 20 or 9.75 inch centers and support the bus bars providing bracing during short circuit conditions. The plug-in outlets are IP2X (finger safe).

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 twleve 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 max①
Short circuit:	100A – 10kAIC
	225A – 22kAIC
	400A – 35kAIC





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

① 225A three phase four or five wire has 277/480V max

XJ-L™ HD Busway System

Straight Sections

Plug-in section

												Plug-in Busway Only	
Prefix	Type	Fitting Type				Amp	Configuration	Color	Plug-In Location	Plug-In Spacing
BW	**J**	**P**	**1**	**2**	**0**	**1**	**6**	**G**	**L**	**2**
		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 Side① **2** = 9.75″ Single Side②

XJ-L HD

Plug-in

Notes:
① Use for Plug-in Length = "S"
② Use for Plug-in Length = "L" or "R"

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	Color
BW	**J**	**F**	**1**	**2**	**0**	**1**	**6**	**G**
		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

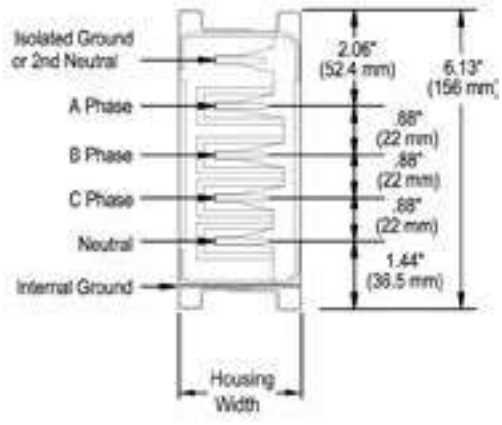
XJ-L HD

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.

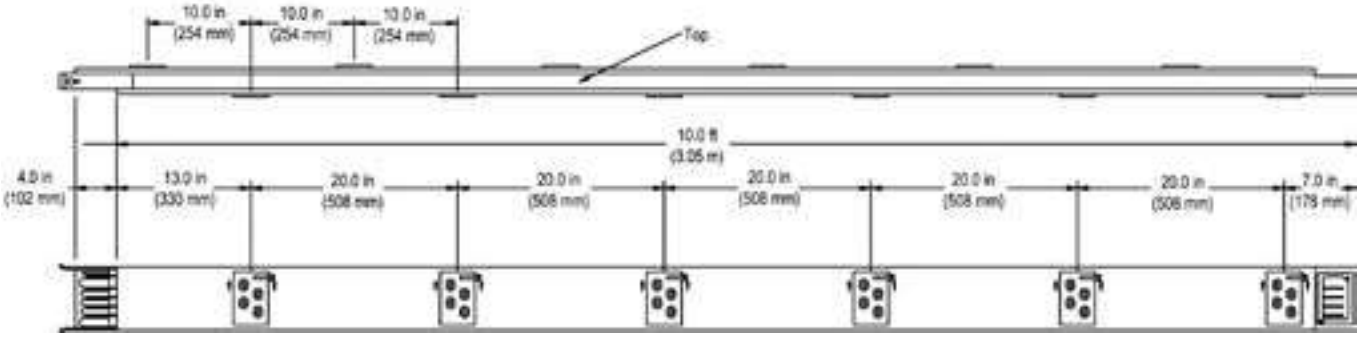




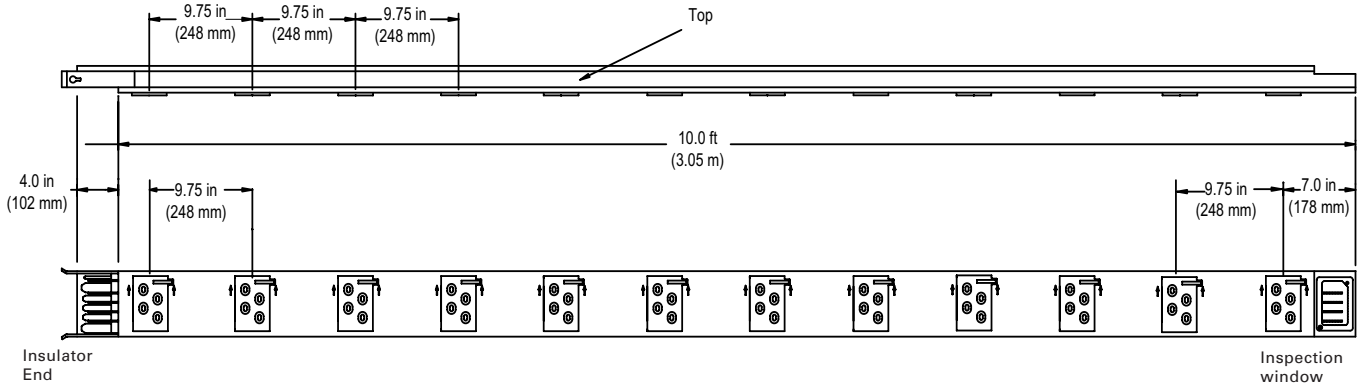
XJ-L™ HD Busway System

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	
									Model Number①	Wgt. (lb)	Model Number①	Wgt. (lb)
100	Copper	.125 (3.2)	.5 (13)	2.0 (51)	6.13 (156)	600V	10kA	10.0 (3.05)	**BWJP12011GS1**	42	**BWJP12015GS1**	45
100	Copper	.125 (3.2)	.5 (13)	2.0 (51)	6.13 (156)	600V	10kA	5.0 (1.52)	**BWJP06011GS1**	21	**BWJP06015GS1**	23
100	Copper	.125 (3.2)	.5 (13)	2.0 (51)	6.13 (156)	600V	10kA	2.0 (.61)	**BWJP02411GS1**	8	**BWJP02415GS1**	9
225	Copper	.125 (3.2)	1.0 (25)	2.5 (64)	6.13 (156)	600V	22kA	10.0 (3.05)	**BWJP12021GS1**	56	**BWJP12025GS1**	62
225	Copper	.125 (3.2)	1.0 (25)	2.5 (64)	6.13 (156)	600V	22kA	5.0 (1.52)	**BWJP06021GS1**	28	**BWJP06025GS1**	30
225	Copper	.125 (3.2)	1.0 (25)	2.5 (64)	6.13 (156)	600V	22kA	2.0 (.61)	**BWJP02421GS1**	10	**BWJP02425GS1**	12
400	Copper	.125 (3.2)	2.12 (54)	3.6 (92)	6.13 (156)	600V	35kA	10.0 (3.05)	**BWJP12041GS1**	69	**BWJP12045GS1**	79
400	Copper	.125 (3.2)	2.12 (54)	3.6 (92)	6.13 (156)	600V	35kA	5.0 (1.52)	**BWJP06041GS1**	35	**BWJP06045GS1**	40
400	Copper	.125 (3.2)	2.12 (54)	3.6 (92)	6.13 (156)	600V	35kA	2.0 (.61)	**BWJP02441GS1**	15	**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' Model Number①	Wgt. (lb/ft)	10' Model Number①	Wgt. (lb/ft)
100	Copper	.125 (3.2)	.5 (13)	2.0 (51)	6.13 (156)	600V	10kA	16.0-120.0 (406 - 3048)	**BWJF12011GS1**	4.2	**BWJP12015GS1**	4.5
225	Copper	.125 (3.2)	1.0 (26)	2.5 (64)	6.13 (156)	600V	22kA		**BWJF12021GS1**	5.6	**BWJP12025GS1**	6.2
400	Copper	.125 (3.2)	2.12 (54)	3.6 (92)	6.13 (156)	600V	35kA		**BWJF12041GS1**	6.9	**BWJP12045GS1**	7.9

XJ-L™ HD Busway System

Elbows

Fittings

Prefix	Type	Fitting Type				Amp	Configuration	Color
BW	J	E	L	E	L	1	7	A
	XJ-L HD	E	L	E = Edge	L = Left	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
	Elbow			F = Flat	R = Right			

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 catalog number suffix to identify the required fitting.

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 catalog number suffix to identify the required fitting.

Flat Elbow

Ampere Rating	Poles	Model Number Right	Model Number Left
100	3	**BWJELFR11G**	**BWJELFL11G**
100	4	**BWJELFR15G**	**BWJELFL15G**
225	3	**BWJELFR21G**	**BWJELFL21G**
225	4	**BWJELFR25G**	**BWJELFL25G**
400	3	**BWJELFR41G**	**BWJELFL41G**
400	4	**BWJELFR45G**	**BWJELFL45G**

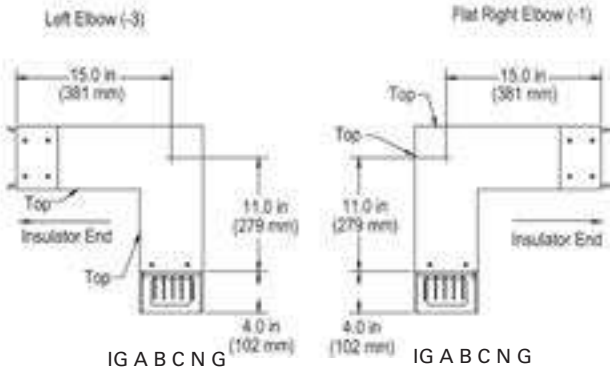
Edge Elbow

Ampere Rating	Poles	Model Number Right	Model Number Left
100	3	**BWJELER11G**	**BWJELEL11G**
100	4	**BWJELER15G**	**BWJELEL15G**
225	3	**BWJELER21G**	**BWJELEL21G**
225	4	**BWJELER25G**	**BWJELEL25G**
400	3	**BWJELER41G**	**BWJELEL41G**
400	4	**BWJELER45G**	**BWJELEL45G**

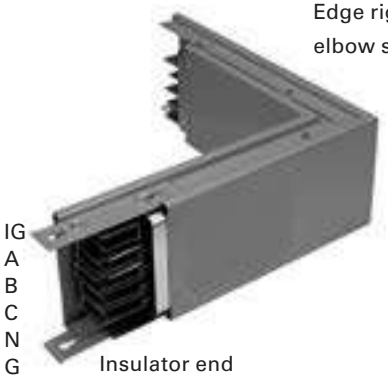
Flat right elbow shown

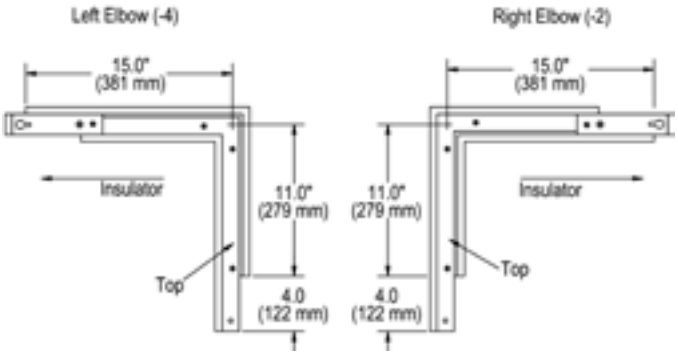
Insulator end





Edge right elbow shown





XJ-L™ HD Busway System

Tees and Crosses

Fittings

Prefix	Type	Fitting Type				Amp	Configuration	Color
BW	J	C	R	E	2	1	7	A

XJ-L HD — Cross

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
Neutral
Neutral + Internal Ground

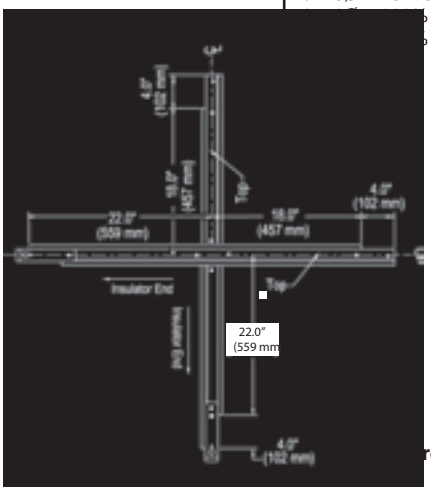
A = Graphite
G = ANSI 61
X = Other

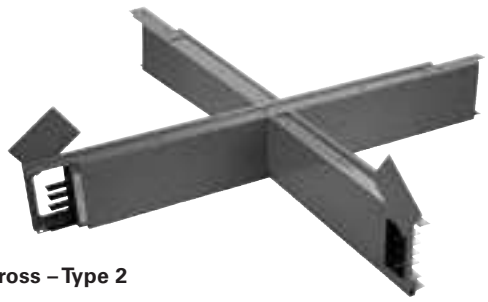
Cross

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

Cross

Ampere Rating	Poles	Model Number
100	3	**BWJCRE211G**
100	4	**BWJCRE215G**
225	3	**BWJCRE221G**
225	4	**BWJCRE225G**
400	3	**BWJCRE241G**
400	4	**BWJCRE245G**





ross – Type 2

Fittings

Prefix	Type	Fitting Type				Amp	Configuration	Color
BW	J	T	E	E	2	1	7	A

XJ-L HD — Tee

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

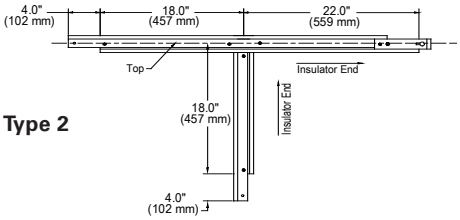
A = Graphite
G = ANSI 61
X = Other

Tee

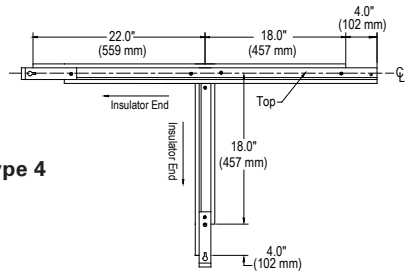
Tees permit a second run of busway to extend at right angles to a straight busway run.

Tees

Ampere Rating	Poles	Model Number	Model Number
100	3	**BWJTEE211G**	**BWJTEE411G**
100	4	**BWJTEE215G**	**BWJTEE415G**
225	3	**BWJTEE221G**	**BWJTEE421G**
225	4	**BWJTEE225G**	**BWJTEE425G**
400	3	**BWJTEE241G**	**BWJTEE441G**
400	4	**BWJTEE245G**	**BWJTEE445G**



Tee – Type 2



Tee – Type 4



Right Hand Shown

XJ-L™ HD Busway System

Tap Boxes

Center Tap Boxes

									Tap Box Only②			
Prefix	Type	Fitting Type				Amp	Config.	Color	Tap Box Steel	Lug opt.	Meter	Meter Surface
BW	J	C	T	L	N	2	4	A	S	A	1	N
				L = Left (rear) **R** = Right (front)		**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

XJ-L HD → **C** **T** **N**

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

A = Std Mech Lug
B = 1.75 Dual Hole (No Lug)
X = Custom / Other①
D = Extended Box with 500MCM Mechanical

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

Figure 1
Right

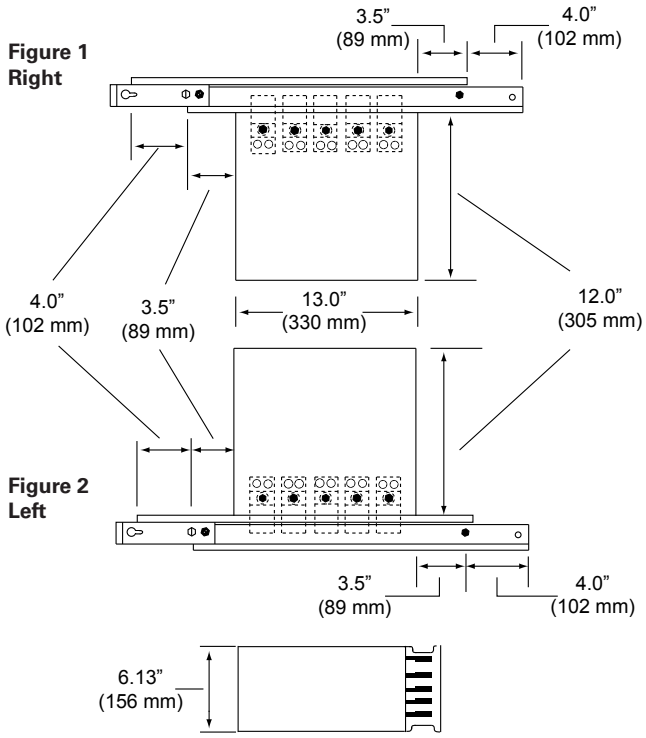


Figure 2
Left

Center Tap Box

Ampere Rating	Poles	Model Number Right Connected Fig 1	Model Number Left Connected Fig 2	Teminals Provided Qty/Pole and Size Cu/Al wire
225	3	**BWJCTRN21GSANN**	**BWJCTLN21GSANN**	(1) 350MCM - #6
225	4	**BWJCTRN25GSANN**	**BWJCTLN25GSANN**	(1) 350MCM - #6
400	3	**BWJCTRN41GSANN**	**BWJCTLN41GSANN**	(2) 350MCM - #6
400	4	**BWJCTRN45GSANN**	**BWJCTLN45GSANN**	(2) 350MCM - #6

XJ-L™ HD Busway System

Tap Boxes

End Tap Boxes

									Tap Box Only②			
Prefix	Type	Fitting Type				Amp	Config.	Color	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
	End 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

A = Std Mech Lug
B = 1.75 Dual Hole (No Lug)
X = Custom / Other①
D = Extended Box with 500MCM Mechanical

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

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.

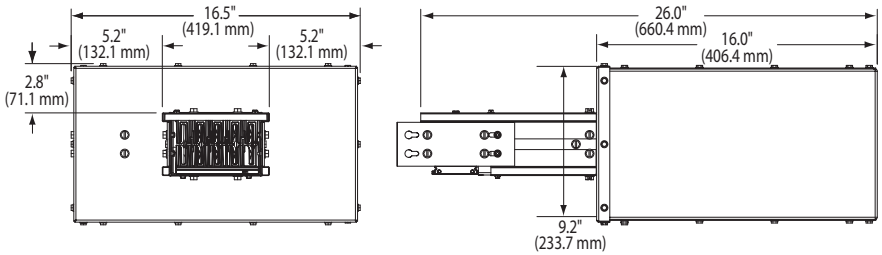




Right Hand Shown

End Tap Box

Ampere Rating	Poles	Model Number	Teminals Provided Qty/Pole and Size Cu/Al wire
100	3	**BWJETBR11GS**	(1) 1/0 - #14
100	4	**BWJETBR15GS**	(1) 1/0 - #14
225	3	**BWJETBR21GS**	(1) 350MCM - #6
225	4	**BWJETBR25GS**	(1) 350MCM - #6
400	3	**BWJETBR41GS**	(2) 350MCM - #6
400	4	**BWJETBR45GS**	(2) 350MCM - #6



XJ-L™ HD Busway System

Flanged Ends

Flanged End

Prefix	Type	Fitting Type				Amp	Config.	Color
BW	J	F	R	N	N	2	4	A

XJ-L HD

Flanged End

F

E = Std.
R = Nema
X = Other

N N

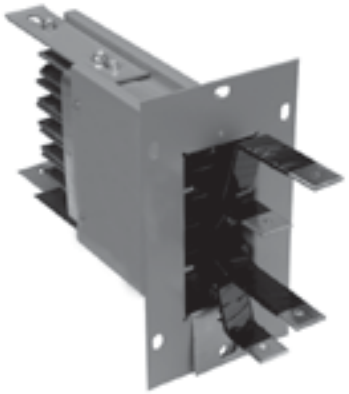
1 = 100
2 = 225
4 = 400

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

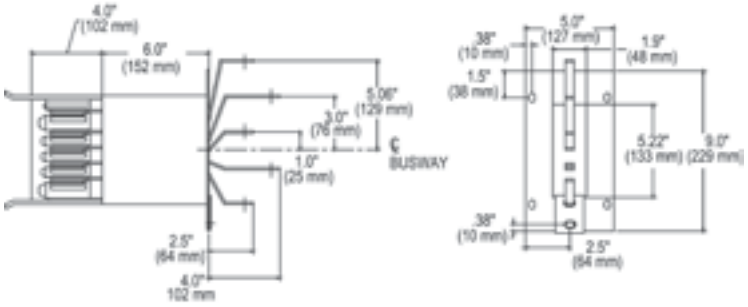
Flanged end

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	Model Number
100	3	**BWJFENN11GS**
100	4	**BWJFENN15GS**
225	3	**BWJFENN21GS**
225	4	**BWJFENN25GS**
400	3	**BWJFENN41GS**
400	4	**BWJFENN45GS**



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	Model Number	Dimn A in. (mm)
100	**BWJH0011G**	2.25 (57)
225	**BWJH0012G**	2.75 (69)
400	**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	Color
BW	**J**	**H**	**0**	**0**	**1**	**1**	**G**

XJ-L HD

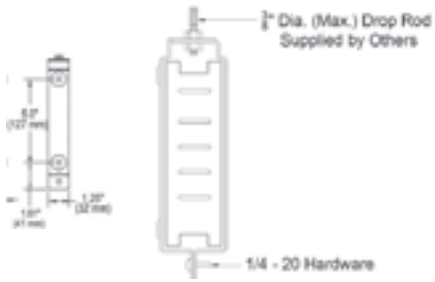
Hanger → **H**

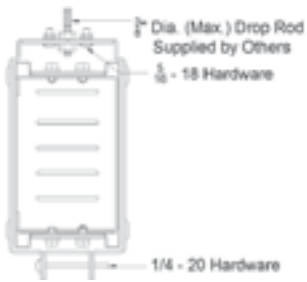
001 = Singe Drop Rod (XH style)
002 = Side Mount for strut channel①
003 = Saddle Mount for strut channel①
004 = Pole Mount①
005 = Dual Drop Rod Saddle①
006 = Dual/Single Drop Rod Frame
XXX = Other①

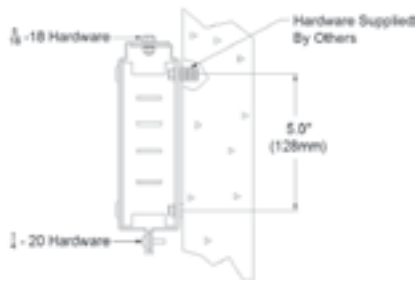
1 = 100
2 = 225
4 = 400

A = Graphite
G = ANSI 61
X = Other

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

Ampere Rating	Model Number	Dimn. A in (mm)	Dimn. B in (mm)
100	**BWJXENN1G**	2.06 (52)	0.94 (24)
225	**BWJXENN2G**	2.31 (59)	1.44 (37)
400	**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.

End Closer

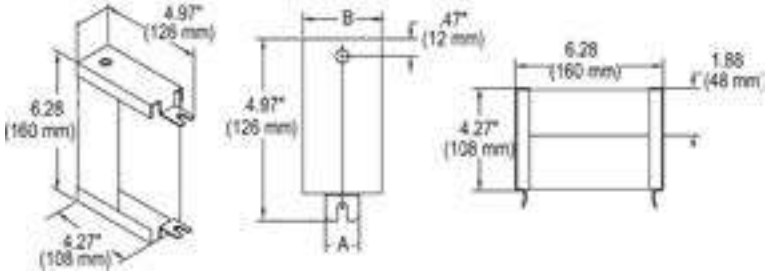
Prefix	Type	Fitting Type				Amp	Color
BW	**J**	**X**	**E**	**N**	**N**	**1**	**G**

XJ-L HD

End Closer → **X** **E** **N** **N**

1 = 100
2 = 225
4 = 400

A = Graphite
G = ANSI 61
X = Other



XOC outlet covers

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

Outlet Cover

Ampere Rating	Model Number①
100	**BWJXOCN1G**
225	**BWJXOCN2G**
400	**BWJXOCN4G**



Outlet Cover

Prefix	Type	Fitting Type				Amp	Color
BW	**J**	**X**	**O**	**C**	**N**	**1**	**G**

XJ-L HD

Plug-in Cover → **X** **O** **C** **N**

1 = 100
2 = 225
4 = 400

A = Graphite
G = ANSI 61
X = Other

XJ-L™ HD Busway System

Bus Plugs

Bus plugs for XJ-L Busway are available from 15A to 100A, 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 Bus Plugs are available with 3 or 6 branch circuit protection in both single and 3-phase configurations, ranging from 15A – 100A for maximum power density and flexibility.

A wide variety of NEMA and IEC receptacles or cord connections are available for the XJ-L Bus Plugs.





Selection Guide

Enclosure Type	Plug-in Spacing	Breaker Type	Application
A = 3 Circuit - XQ Series	20.00 & 9.75	BQ, BQH, HBQ	XQ style - No receptacle
B = 3 Circuit - XQR Series	20.00 & 9.75⑩		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		Use for applications that require factory installed breakers and receptacles
D = 3-6 Circuit HD XPM	20.00 & 9.75	BL, BLH, HBL, BQD, NGB	
G = XLEC	20.00 & 9.75⑩	ED2,ED4,ED6, HED4	Cover operable handle. Uses heavy duty E-Frame Breakers
H = XEC	20.00 & 9.75⑩		Uses heavy duty E-Frame breakers
J = Plug-in Tap Box	20.00	na	Plug-in tap off device - lugs only
K = XLVB Fusible	20.00 & 9.75⑩	na	Cover operable Vacu-Break Switch

Siemens XJ-L™ HD Bus Plugs and Power Modules

Use For Breaker Group = A, B, X⑨

Prefix	Type	Enclosure	System Config.	Color	Breaker Group	Ampere Rating or Breaker/Receptacle Arrangement⑤⑥⑦⑧	Custom Features
BP	J	H	6	A	A	E D 4 6 0	N N
Bus Plug		**A** = 3 Circuit XQ Series **B** = 3 Circuit – XQ Series Receptacle Provision **C** = 3 Circuit HD XPM **D** = 3-6 Circuit HD XPM **G** = XLEC②⑥⑩⑪ **H** = XEC③⑥⑩ **J** = Plug-in Tap Box②④⑧⑪ **K** = XLVB Fusible②④⑦⑩	**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 Breakers① **E** = Enclosure Only (no Breaker)①⑨ **X** = Other / Fusible④	See Notes below for information	**NN** = None / NA
XJ-L HD							

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

XJ-L™ HD Busway System

Bus Plugs

XQ and XQR Series

XQ and XQR bus plugs accept 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	Model Number	Model Number
BQ, BQH and HBQ	120/240	3	**BPJA1GE**	**BPJA5GE**

Enclosure Only





XQR Series Bus plug (60A max)

Breaker Type	Volts	No. of Spaces	Model Number	Model Number
BQ, BQH and HBQ	120/240	3	**BPJB1GE**	**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



XEQH



W62890



W68101

Bus Plugs

XPM Series

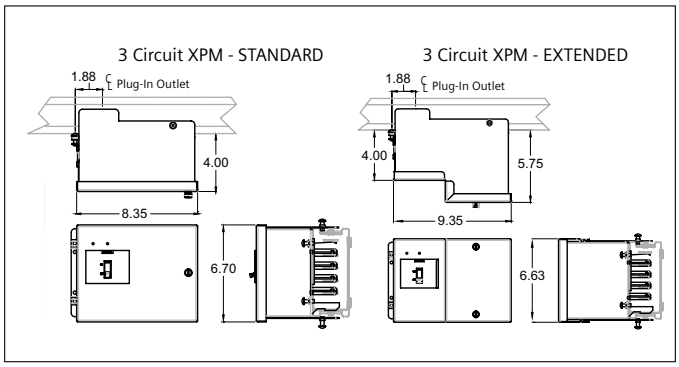
Use for applications that require factory installed breakers and receptacles.

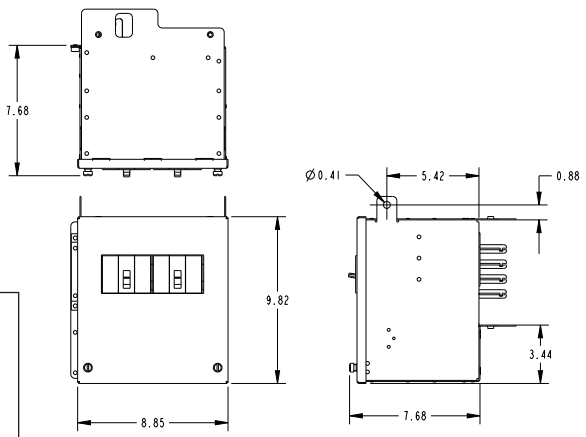
XPM Series HD Bus plug 3/6

Breaker Type	Interrupt Rating (RMS kA)	Config.	No. of Spaces	Model Number
BL	10	1-pole 120V	6	BPJE...
BLH	10	1-pole 120V		
	22	1-pole 120V		
	22	3-pole 240V		
	10	2-pole 120/240V		
	10	3-pole 120/240V		
	22	2-pole 120/240V		
	22	3-pole 120/240V		
HBL	10	1-pole 120V		
	22	1-pole 120V		
	65	1-pole 120V		
	22	3-pole 240V		
	65	3-pole 240V		
	10	2-pole 120/240V		
	10	3-pole 120/240V		
	22	2-pole 120/240V		
	22	3-pole 120/240V		
	65	2-pole 120/240V		
	65	3-pole 120/240V		
BQD	10	1-pole 120V		
	22	1-pole 120V		
	65	1-pole 120V		
	10	2-pole 240V		
	10	3-pole 240V		
	22	2-pole 240V		
	22	3-pole 240V		
	65	2-pole 240V		
	65	3-pole 240V		
	10	2-pole 120/240V		
	10	3-pole 120/240V		
	22	2-pole 120/240V		
	22	3-pole 120/240V		
	65	2-pole 120/240V		
	65	3-pole 120/240V		
	14	1-pole 227V		
	14	2-pole 227/480V		
	14	3-pole 227/480V		
NGB	10	1-pole 120V		
	22	1-pole 120V		
	65	1-pole 120V		
	10	2-pole 240V		
	10	3-pole 240V		
	22	2-pole 240V		
	22	3-pole 240V		
	65	2-pole 240V		
	65	3-pole 240V		
	10	2-pole 120/240V		
	10	3-pole 120/240V		
	22	2-pole 120/240V		
	22	3-pole 120/240V		
	65	2-pole 120/240V		
	65	3-pole 120/240V		
	14	1-pole 227V		
	25	1-pole 227V		
	14	2-pole 227/480V		
	14	3-pole 227/480V		
	25	2-pole 227/480V		
	25	3-pole 227/480V		
	14	1-pole 347V		
	14	2-pole 347/600V		
	14	3-pole 347/600V		

XPM Series HD Bus plug 3 Circuit

Breaker Type	Interrupt Rating (RMS kA)	Config.	No. of Spaces	Model Number
BQ	10	1-pole 120V	6	BPJC...
	10	2-pole 240 V		
	10	3-pole 240 V		
	10	2-pole 120/240 V		
	10	3-pole 120/240 V		
BQH	10	1-pole 120V		
	22	1-pole 120V		
	22	3-pole 240 V		
	10	2-pole 120/240 V		
	10	3-pole 120/240 V		
	22	2-pole 120/240 V		
	22	3-pole 120/240 V		
HBQ	10	1-pole 120V		
	22	1-pole 120V		
	65	1-pole 120V		
	22	3-pole 240 V		
	65	3-pole 240 V		
	10	2-pole 120/240 V		
	10	3-pole 120/240 V		
	22	2-pole 120/240 V		
	22	3-pole 120/240 V		
	65	2-pole 120/240 V		
	65	3-pole 120/240 V		







3-6 Circuit XPM



3 Circuit XPM

XJ-L™ HD Busway System

Bus Plugs

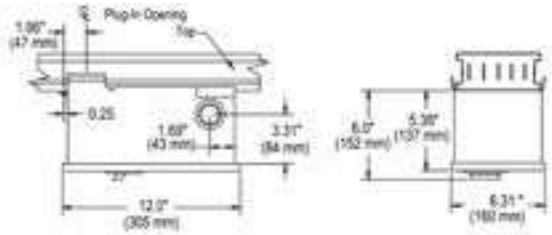
XEC Series

(Cover operable, 100A max)
XEC bus plugs accept ED2, ED4, ED6 and HED6 circuit breakers. The plugs feature a spacious chassis which allows room for wire bending and knockout provisions. Isolated ground plugs are available from the factory.

XEC Series bus plug

Breaker Type	Volts	Ampere Rating	Model Number	Model Number
ED2	240	100	**BPJH1GAED200NN**	**BPJH5GAED200NN**
ED4	480	30	**BPJH1GAED430NN**	**BPJH5GAED430NN**
ED6	600	60	**BPJH1GAED660NN**	**BPJH5GAED660NN**
Enclosure Only	600 Max	15-100	**BPJH1GE**	**BPJH5GE**







W62890
bonded
ground kit

XLEC Series

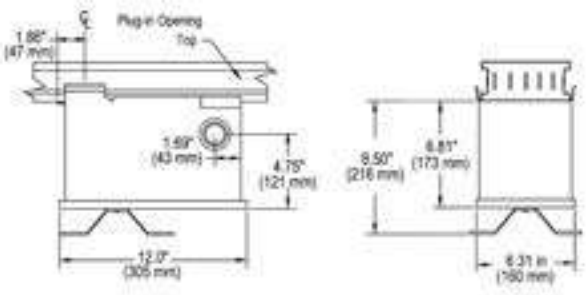
(Floor operable, 100A max)
XLEC bus plugs accept ED2, ED4, ED6 and HED4 circuit breakers. The plugs feature a spacious chassis which allows room for wire bending and knockout provisions. These plugs may be operated from the floor with a pull chain or hookstick.

XLEC Series bus plug

Breaker Type	Volts	Ampere Rating	Model Number	Model Number
ED2	240	100	**BPJG1GAED200NN**	**BPJG5GAED200NN**
ED4	480	30	**BPJG1GAED430NN**	**BPJG5GAED430NN**
ED6	600	60	**BPJG1GAED660NN**	**BPJG5GAED660NN**
Enclosure Only	600 Max	15-100	**BPJG1GE**	**BPJG5GE**

Additional add-on features, such as shunt trips, alarm switches, and auxillary contacts are also available for XEC and XLEC bus plugs.





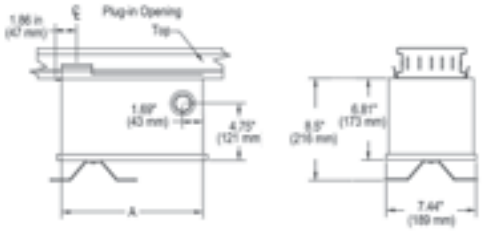
XJ-L™ HD Busway System

Bus Plugs

XLVB Series

(Floor operable, 100A max)
XLVB fusible bus plugs utilize the Vacu-Break switching principle, which minimizes arcing and reduces maintenance costs. The Vacu-Break bus plugs are quick-make and quick-break, cover interlocked, horsepower rated, and may be operated from the floor with a pull chain or hookstick.





XLVB Series bus plug

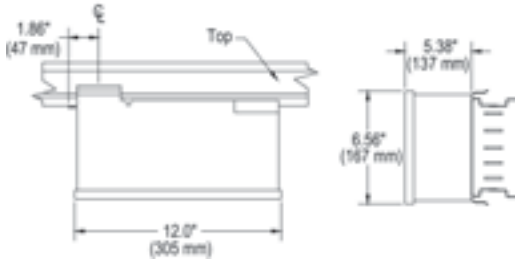
Volts	Ampere Rating	Model Number	Model Number
240	30	**BPJK1GX02030NN**	**BPJK5GX02030NN**
240	60	**BPJK1GX02060NN**	**BPJK5GX02060NN**
240	100	**BPJK1GX02100NN**	**BPJK5GX02100NN**
600	30	**BPJK1GX06030NN**	**BPJK5GX06030NN**
600	60	**BPJK1GX06060NN**	**BPJK5GX06060NN**
600	100	**BPJK1GX06100NN**	**BPJK5GX06100NN**

W47185
ON/OFF labels



100A Plug-in tap box

Plug-in cable tap boxes are non-fusible devices used for end or center feed. The 100A tap boxes can be attached at any plug-in opening.





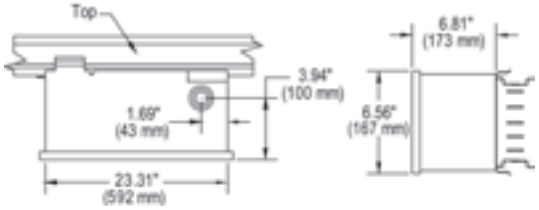
100A Plug-in Tap Box

Ampere Rating	Poles	Model Number
100	3	**BWJJ1GXPB100NN**
100	4	**BWJJ5GXPB100NN**

Note: Add suffix letter "G" to catalog number for ground bus.

200A Plug-in tap box

Plug-in cable tap boxes are non-fusible devices used for end or center feed. The 200A tap box requires two adjacent openings on 20" centers. 200A plug-in tap boxes are not suitable for use with XJ-L HD Busway.



200A Plug-in Tap Box

Ampere Rating	Poles	Model Number
200	3	**BWJJ1GXPB200NN**
200	4	**BWJJ5GXPB200NN**

Note: Add suffix letter "G" to catalog number for ground bus.



W62892
Grd Finger Kit

Busway Power Distribution

BD® Plug-In (225 — 1600 Ampere) Copper

Selection

Ampere Rating	Plug In 10'–0" Straight Length Catalog Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.	90° Elbow Prefix ③④ Catalog Number	Switch-Board Connection⑤ Prefix	Building Expansion Fitting Catalog Number	Cable Tap Box End⑥ Catalog Number	Cable Tap Box Center⑦ Catalog Number	End Closure Catalog Number	Hangers⑧ Catalog Number
3-Phase, 3-Wire										**600V or Less**
225	**BDP302**	4⅛ x 8⅜	9	**LDP302**	**FEP302**	**EJP302**	**ETB302**	**CTB302**	**ECP6**	**BDH10**
400	**BDP304**	4⅛ x 8⅜	12½	**LDP304**	**FEP304**	**EJP304**	**ETB304**	**CTB304**	**ECP6**	
600	**BDP306**	4⅛ x 8⅜	13½	**LDP306**	**FEP306**	**EJP306**	**ETB306**	**CTB306**	**ECP6**	
800	**BDP308**	6⅛ x 8⅜	18½	**LDP308**	**FEP308**	**EJP308**	**ETB308**	**CTB308**	**ECP10**	
1000	**BDP310**	6⅛ x 8⅜	22	**LDP310**	**FEP310**	**EJP310**	**ETB310**	**CTB310**	**ECP10**	
1350	**BDP313**	12⅛ x 8⅜	28	**LDP313**	**FEP313**	**EJP313**	**ETB313**	**CTB313**	**ECA10**	**BDH12**
1600	**BDP316**	12⅛ x 8⅜	29	**LDP316**	**FEP316**	**EJP316**	**ETB316**	**CTB316**	**ECA10**	
3-Phase, 4-Wire — Full Capacity Neutral										**480V or Less**
225	**BDP4024**	4⅛ x 8⅜	12	**LDP4024**	**FEP4024**	**EJP4024**	**ETB4024**	**CTB4024**	**ECP6**	**BDH10**
400	**BDP4044**	4⅛ x 8⅜	14½	**LDP4044**	**FEP4044**	**EJP4044**	**ETB4044**	**CTB4044**	**ECP6**	
600	**BDP4064**	4⅛ x 8⅜	15½	**LDP4064**	**FEP4064**	**EJP4064**	**ETB4064**	**CTB4064**	**ECP6**	
800	**BDP4084**	8⅛ x 8⅜	28	**LDP4084**	**FEP4084**	**EJP4084**	**ETB4084**	**CTB4084**	**ECA8**	**BDH12**
1000	**BDP4104**	8⅛ x 8⅜	32	**LDP4104**	**FEP4104**	**EJP4104**	**ETB4101**	**CTB4101**	**ECA8**	
Rod-Hanger Adapter (optional)			**UJ100**							

Aluminum to Copper Cross Reference

Aluminum BD Busway is no longer available. Please use the cross reference below to identify compatible copper equivalent.

Aluminum

3-Phase, 3-Wire

Ampere Rating	Plug In 10'–0" Straight Length Catalog Number	Case Dimensions (inches)
225	**ABD302**	4⅛ x 8⅜
400	**ABD304**	4⅛ x 8⅜
600	**ABD306**	6⅛ x 8⅜
800	**ABD308**	6⅛ x 8⅜
1000	**ABD310**	12⅛ x 8⅜
1200	**ABD312**	12⅛ x 8⅜

3-Phase, 4-Wire — Full Capacity Neutral

225	**ABD4024**	4⅛ x 8⅜
400	**ABD4044**	4⅛ x 8⅜
600	**ABD4064**	6⅛ x 8⅜
800	**ABD4084**	8⅛ x 8⅜
1000	**ABD4104**	12⅛ x 8⅜
1200	**ABD4124**	12⅛ x 8⅜

Copper

3-Phase, 3-Wire

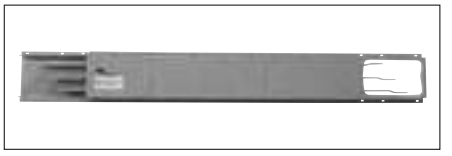
Ampere Rating	Plug In 10'–0" Straight Length Catalog Number	Case Dimensions (inches)
225	**BDP302**	4⅛ x 8⅜
400	**BDP304**	4⅛ x 8⅜
600	**BDP306**	4⅛ x 8⅜
800	**BDP308**	6⅛ x 8⅜
1000	**BDP310**	6⅛ x 8⅜
1350	**BDP313**	12⅛ x 8⅜
1600	**BDP316**	12⅛ x 8⅜

3-Phase, 4-Wire — Full Capacity Neutral

225	**BDP4024**	4⅛ x 8⅜
400	**BDP4044**	4⅛ x 8⅜
600	**BDP4064**	4⅛ x 8⅜
800	**BDP4084**	8⅛ x 8⅜
1000	**BDP4104**	8⅛ x 8⅜

"M" Rating / Standard Rating Conversion Table

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

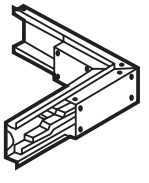


For inches / millimeters conversion, see Application Data Section.

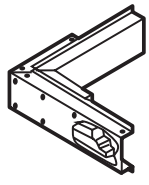
For higher short circuit ratings add an "H" after the "D" or "P" (ABDH302 or BDPH302). Consult sales office for ratings. "GK" suffix is an internal ground bus. For any other ground configuration, consult local sales office. Please use following footage for fittings:

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

③



Right Edgewise Elbow (-2)



Left Edgewise Elbow (-4)

Suffix	Description
-1	Right Flatwise
-2	Right Edgewise
-3	Left Flatwise
-4	Left Edgewise

Appropriate suffix must be added to Elbow Catalog Number to order.

Switchboard stub bus bars to cover cutout in switchboard. Connecting hardware supplied by switchboard manufacturer.
Includes busware stub. Total length added to run is 2" for 225A and 400A aluminum or 225A–600A copper, 6" for all others. Box is designed to connect to offset bus-bar ends. When it is to be connected to straight bus-bar ends, adapter will be furnished upon request.
Must be factory-assembled to busway. Complete device includes 10' busway.
Two hangers included free of charge with each busway section, elbow, tee and cross.

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				Wall Flange Catalogue Number	Floor Support Catalogue Number	End Closure Catalogue Number	Hangers② Catalog Number
Ampere Rating	Basic Catalogue Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.				
3-Pole							
225	**UH302AB**	4½ x 10	8	**UF145**	**UFS145**	**UE145**	**UH145**
400	**UH304AB**	4½ x 10	9	**UF145**	**UFS145**	**UE145**	**UH145**
600	**UH306AB**	5½ x 10	10	**UF145**	**UFS145**	**UE155**	**UH155**
4-Pole Full Neutral							
225	**UH502AB**	4½ x 10	8	**UF145**	**UFS145**	**UE145**	**UH145**
400	**UH504AB**	4½ x 10	9	**UF145**	**UFS145**	**UE145**	**UH145**
600	**UH506AB**	5½ x 10	10	**UF145**	**UFS145**	**UE155**	**UH155**

Ventilated 800–5000 Amperes With Ground Bus

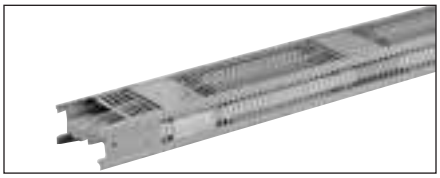
Busway Sections Complete					Wall Flange Catalogue Number	Floor Support Catalogue Number	End Closure Catalogue Number	Hangers② Catalogue Number
Ampere Rating①								
Edge-wise ‖	Flat-wise ═	Basic Catalogue Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.				
3-Pole								
800	800	**UH308AV**	4½ x 10	10	**UF145**	**UFS145**	**UE145**	**UH145**
1000	800	**UH310AV**	4½ x 10	11	**UF145**	**UFS145**	**UE145**	**UH145**
1200	1000	**UH312AV**	5½ x 10	12	**UF155**	**UFS145**	**UE155**	**UH155**
1350	1200	**UH313AV**	5½ x 10	13	**UF155**	**UFS145**	**UE155**	**UH155**
1600	1350	**UH316AV**	7½ x 10	16	**UF175**	**UFS179**	**UE175**	**UH175**
2000	1600	**UH320AV**	7½ x 10	19	**UF175**	**UFS179**	**UE175**	**UH175**
2500	2000	**UH325AV**	9½ x 10	23	**UF195**	**UFS179**	**UE175**	**UH195**
3000	3000	**UH330AV**	7½ x 20⅝	32	**UF275**	**UFS279**	**UE275**	**UH275**
4000	3500	**UH340AV**	9½ x 20⅝	41	**UF295**	**UFS279**	**UE295**	**UH295**
5000	4000	**UH350AV**	9½ x 20⅝	45	**UF295**	**UFS279**	**UE295**	**UH295**
4-Pole Full Neutral								
800	800	**UH508AV**	4½ x 10	11	**UF145**	**UFS145**	**UE145**	**UH145**
1000	800	**UH510AV**	4½ x 10	12	**UF145**	**UFS145**	**UE145**	**UH145**
1200	1000	**UH512AV**	5½ x 10	14	**UF155**	**UFS145**	**UE155**	**UH155**
1350	1200	**UH513AV**	5½ x 10	15	**UF155**	**UFS145**	**UE155**	**UH155**
1600	1350	**UH516AV**	7½ x 10	18	**UF175**	**UFS179**	**UE175**	**UH175**
2000	1600	**UH520AV**	7½ x 10	21	**UF175**	**UFS179**	**UE175**	**UH175**
2500	2000	**UH525AV**	9½ x 10	26	**UF195**	**UFS179**	**UE195**	**UH195**
3000	3000	**UH530AV**	7½ x 20⅝	35	**UF275**	**UFS279**	**UE275**	**UH275**
4000	3500	**UH540AV**	9½ x 20⅝	47	**UF295**	**UFS279**	**UE295**	**UH295**
5000	4000	**UH550AV**	9½ x 20⅝	52	**UF295**	**UFS279**	**UE295**	**UH295**

XLU Suffix Table

Description	Suffix
Feeder	F
Plug-in	P
Elbow	L
Tee	T
Cross	X
Switchboard Connection	S
Expansion Section	J
Center Tap Box	M
End Tap Box	B
XFMR Throat	—
XFMR Tap 1-3 Phase	—
XFMR Tap 3-1 Phase	—
Roof Flange	—
Fused Reducer	—
Non Fused Reducer	—

① Ventilated XL-U busway has two ratings; see above for edgewise or flatwise mounting.
② For rod-hanger adapter UJ100 see page 13-80.

GENERAL NOTES:
1) For inches / millimeters conversion, see Technical Section.
2) To form complete catalog number, use basic catalog number and substitute suffix of required item. Example: Basic busway Catalog Number U316AV— accessory switchboard stub with ground bus U316AVSG.
3) Totally Enclosed offering is available up to 3000A Al. Replace "V" with "E" in catalog number.
4) The following feeder busway footages apply:
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′
5) For higher short circuit rating add an "HH" after the "U" (UHH302ABP)
6) Floor and ceiling flanges are ordered by description.
7) Internal ground bar provided as standard.
8) For elbows other than 90°, accessory charge is doubled.
9) Switchboard stub includes flange to cover cutout in top of indoor switchboard and 8" of bus inside switchboard. Connecting hardware supplied by switchboard manufacturer.
10) 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® Copper (225–6500 Amperes)

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

Busway Catalogue Number				Wall Flange Catalogue Number	Floor Support Catalogue Number	End Closure Catalogue Number	Hangers② Catalogue Number
Ampere Rating	Basic Catalogue Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.				
3-Pole							
225	**UH302CB**	4½ x 10	8	**UF145**	**UFS145**	**UE145**	**UH145**
400	**UH304CB**		12	**UF145**	**UFS145**	**UE145**	**UH145**
600	**UH306CB**		13	**UF145**	**UFS145**	**UE145**	**UH145**
4-Pole Full Neutral							
225	**UH502CB**	4½ x 10	9	**UF145**	**UFS145**	**UE145**	**UH145**
400	**UH504CB**		13	**UF145**	**UFS145**	**UE145**	**UH145**
600	**UH506CB**		15	**UF145**	**UFS145**	**UE145**	**UH145**

Ventilated 800–5000 Amperes With Ground Bus

Busway Sections Complete					Wall Flange Catalogue Number	Floor Support Catalogue Number	End Closure Catalogue Number	Hangers② Catalogue Number
Ampere Rating①								
Edge-wise ‖	Flat-wise ═	Basic Catalogue Number	Case Dimensions (inches)	Shipping Weight Lb./Ft.				
3-Pole								
	800	**UH308CV**	4½ x 10	12	**UF145**	**UFS145**	**UE145**	**UH145**
1000	1000	**UH310CV**	4½ x 10	15	**UF145**	**UFS145**	**UE145**	**UH145**
1200	1000	**UH312CV**	4½ x 10	16	**UF145**	**UFS145**	**UE145**	**UH145**
1350	1200	**UH313CV**	4½ x 10	19	**UF145**	**UFS145**	**UE145**	**UH145**
1600	1350	**UH316CV**	5½ x 10	23	**UF155**	**UFS145**	**UE155**	**UH155**
2000	1600	**UH320CV**	5½ x 10	26	**UF155**	**UFS145**	**UE155**	**UH155**
2500	2000	**UH325CV**	7½ x 10	34	**UF175**	**UFS179**	**UE175**	**UH175**
3000	2500	**UH330CV**	9½ x 10	41	**UF195**	**UFS179**	**UE195**	**UH195**
4000	4000	**UH340CV**	7½ x 20⅝	57	**UF275**	**UFS279**	**UE275**	**UH275**
5000	4500	**UH350CV**	7½ x 20⅝	70	**UF275**	**UFS275**	**UE275**	**UH275**
6000	5000	**UH360CV**	9½ x 20⅝	85	**UF295**	**UFS279**	**UE295**	**UH295**
6500	5500	**UH365CV**	9½ x 20⅝	98	**UF295**	**UFS279**	**UE295**	**UH295**
4-Pole Full Neutral								
800	800	**UH508CV**	4½ x 10	14	**UF145**	**UFS145**	**UE145**	**UH145**
1000	1000	**UH510CV**	4½ x 10	18	**UF145**	**UFS145**	**UE145**	**UH145**
1200	1000	**UH512CV**	4½ x 10	19	**UF145**	**UFS145**	**UE145**	**UH145**
1350	1200	**UH513CV**	4½ x 10	23	**UF145**	**UFS145**	**UE145**	**UH145**
1600	1350	**UH516CV**	5½ x 10	28	**UF155**	**UFS145**	**UE155**	**UH155**
2000	1600	**UH520CV**	5½ x 10	30	**UF155**	**UFS145**	**UE155**	**UH155**
2500	2000	**UH525CV**	7½ x 10	42	**UF175**	**UFS179**	**UE175**	**UH175**
3000	2500	**UH530CV**	7½ x 10	61	**UF195**	**UFS179**	**UE195**	**UH195**
4000	4000	**UH540CV**	7½ x 20⅝	70	**UF275**	**UFS279**	**UE275**	**UH275**
5000	4500	**UH550CV**	7½ x 20⅝	86	**UF275**	**UFS279**	**UE275**	**UH275**
6000	5000	**UH560CV**	9½ x 20⅝	105	**UF295**	**UFS279**	**UE295**	**UH295**
6500	5500	**UH565CV**	9½ x 20⅝	122	**UF295**	**UFS279**	**UE295**	**UH295**

XLU Suffix Table

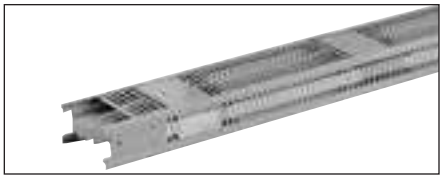
Description	Suffix
Feeder	F
Plug-in	P
Elbow	L
Tee	T
Cross	X
Switchboard Connection	S
Expansion Section	J
Center Tap Box	M
End Tap Box	B
XFMR Throat	—
XFMR Tap 1-3 Phase	—
XFMR Tap 3-1 Phase	—
Roof Flange	—
Fused Reducer	—
Non Fused Reducer	—

"M" Rating / Standard Rating Conversion Table

1000/A Square Inch "M" Rating	Standard Rating Equivalent
225	—
400	—
600	800
800	1200
1000	1350
1200	1600
1350	2000
1600	2500
2000	2500
2500	3000
3000	4000
4000	5000

① Ventilated XL-U busway has two ratings; see above for edgewise or flatwise mounting.
② For rod-hanger adapter UJ100 see page 13-80.

GENERAL NOTES:
1) For inches / millimeters conversion, see Technical Section.
2) 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.
3) Totally Enclosed offering is available up to 4000A Cu. Replace "V" with "E" in catalog number.
4) The following feeder busway footages apply:
   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′
5) For higher short circuit rating add an "HH" after the "U" (UHH302CBP)
6) Floor and ceiling flanges are ordered by description.
7) Internal ground bar provided as standard.



8) For elbows other than 90°, accessory charge is doubled.
9) Switchboard stub includes flange to cover cutout in top of indoor switchboard and 8" of bus inside switchboard. Connecting hardware supplied by switchboard manufacturer.
10) 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

Circuit Breaker Plugs

As of June 2014, Siemens no longer supplies a complete solution for Legacy bus plug offerings.

Floor Operable

Breaker Type	AC Volts	Ampere Rating	3-Phase, 3-Wire Enclosure Only② Catalog Number② XL-X	3-Phase, 3-Wire Enclosure Only② Catalog Number② XL-U	3-Phase, 3-Wire Enclosure Only② Catalog Number BD Plug-In①②	3-Phase, 4-Wire Enclosure Only② Catalog Number② XL-X	3-Phase, 4-Wire Enclosure Only② Catalog Number② XL-U	3-Phase, 4-Wire Enclosure Only② Catalog Number BD Plug-In①②③
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

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

Volts	Ampere Rating	3-Phase, 3-Wire Horsepower Ratings Standard (NEC)	Horsepower Ratings Maximum (Time Delay)	Catalog Number XL-X	XL-U	BD③ Plug-In①	3-Phase, 4-Wire Horsepower Ratings, AC Standard (NEC)	Maximum (Time Delay)	Catalog Number XL-X	XL-U	BD③ Plug-In①
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
	200	25	60	RV324G	UV324G	BOS14324	25	60	RV424G	UV424G	BOS16424
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
	200	60	150	RV364G	UV364G	BOS14354	50	125	RV464G	UV464G	BOS16454

Fuse Adapter Kits — RV and UV⑥

Amperage	Class "J" Catalogue Number	Class "T" Catalogue Number	Class "R" Catalogue Number
240V AC/250V DC			
30	④	④	W56626
60	④	④	W56628
100	④	TFAK32	W55365
200	④	TFAK42	W55366
600V			
30	④	④	W56627
60	④	④	W56629
100	④	TFAK35	W55365
200	④	TFAK45	W55366

Field Addable Ground Kits for BD Bus Plugs Fusible

Ampere Rating	Catalogue Number
30–60	W63231
100	W63232
200	W63233

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 Adapter Kits — BOS⑥

Amperage	Class "J" Catalogue Number	Class "T" Catalogue Number	Class "R" Catalogue Number
240V AC/250V DC			
30	④	④	W56626
60	④	④	W56628
100	W49827	TFAK32	W55365
200	W49819	TFAK42	W55366
600V			
30	W49832	④	W56627
60	W49830	④	W56629
100	W49828	TFAK35	W55365
200	W49818	TFAK45	W55366

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

③ 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.
④ Not required.
⑤ Replace "_" with "1" or "2" .
See Table: BD Bus Plug Catalog Number Ref. shown on Page 13-80.

⑥ Class R and Class J Fuse Kits are single unit part numbers. Order (2) kits for dual units. Class T Fuse Kits are single pole part numbers. Order (3) kits for a 3-pole unit.

XL-X®, XL-U® and BD® Plug-In Units and Cubicles

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	15	13	15	14	10
FD6, FXD	70–250	1	27	51	37	45	28	55	38

Shipping Weights — Pounds

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	Prefix BOS	Prefix RV UV	Prefix BOS
30,60	17	15	19	12
100	17	18	19	18
200	36	34	38	36

Fusible and Molded Case Circuit Breaker Cubicles

See page 13-34 for typical configurations.

BD Bus Plug Catalog Number Reference

Catalog Number	ABD4 Busway						BDP4 Busway						
	225 ABD402	400 ABD404	600 ABD406	800 ABD408	1000 ABD410	1200 ABD412	225 BDP402	400 BDP404	600 BDP406	800 BDP408	1000 BDP410	1350 BDP413	1600 BDP416
BOS16451	—	—	√	—	√	√	—	—	—	—	—	√	√
BOS16452	—	√	—	√	—	—	—	√	√	√	√	—	—

As of June 2014, Siemens no longer supplies a complete solution for Legacy bus plug offerings.