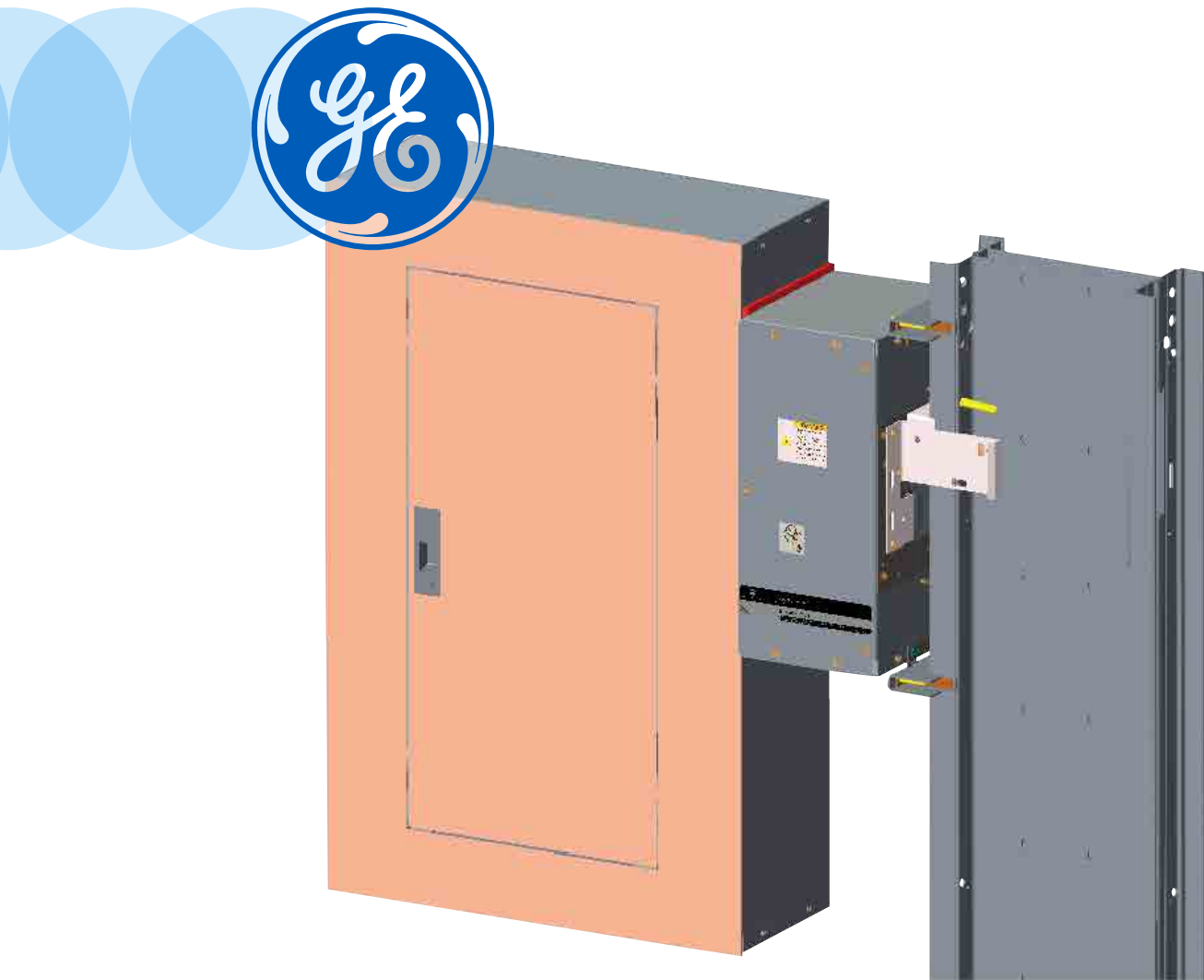


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# Spectra Series\* Busway Panel Plugs

For A-Series\* Lighting Panelboards

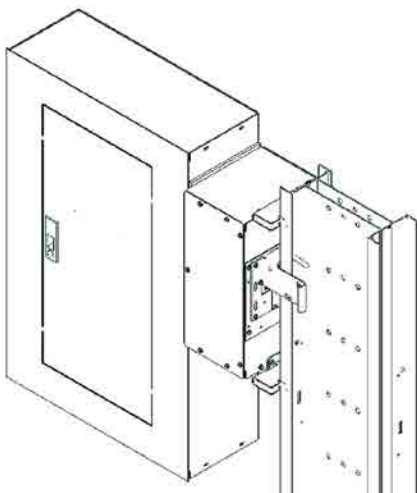


# Rethinking Busway Panel Plugs for the Real World



Spectra Series\* busway is the result of a simple but electrifying concept: that customers expect lighter and smaller power bus systems, flexible enough to expand or realign in facilities as needs change.

GE continues to listen and engineer products to lower your total cost of ownership. The Busway Panel Plug is a fully assembled device with labor-saving advantages not found in any panelboards available today.



Busway Panel Plug with Busway

## Product Description

The Busway Panel Plug allows an A-Series Lighting Panelboard (LP) to mount to a wall and stab directly into the plug-in outlet of vertically mounted, 3-phase, 4-wire, Al/Cu Spectra Series Busway.

This unit comes factory assembled, with the main circuit breaker (MCB) prewired to the busway plug-in unit. It's shipped all ready to stab into the vertical riser busway, mount to the wall, and wire the load side of A-Series LP branch breakers.

The Busway Panel Plug is a UL-listed device per UL857 (E22178) and UL67 (E21790). It is housed in standard A-Series LP enclosure sizes and surface-mounted fronts.

## Technical Specifications

- The short-circuit rating is limited to the lowest short-circuit rating of the A-Series LP interior, the vertical busway, or the main circuit breaker device.
- These "plug-and-play" panels will fit into any outlet of the plugin busway, provided that the MCB handle is within reachable height (6'7" per NEC).

## Ordering Requirements

- The A-Series LP **interior** must be engineered in Speedi and it must be ordered separately from the Mebane, NC plant and shipped to the Selmer, TN plant. When ordering in Speedi, use **MOD CODE INT** for interior only.
- The A-Series **front** must be ordered through SFDC and shipped to Selmer, TN plant, on the same order with interior. Use Speedi to obtain the correct enclosure height and front Cat. No. See Table 2.1 at right. The **Busway Panel Plug enclosure** is ordered from Selmer, TN plant, manufactured, wired, assembled, and shipped from Selmer, TN to the customer job site.
- Available only on A-Series LP with:
  - Top incoming feed location.
  - Enclosure box sizes 20" wide, up to 64.5" high (42 position panel – 400amps max.).
  - Surface-mounted fronts.
  - Applications for 3 phase, 4 wire, interiors and vertically mounted 3 phase, 4 wire Al/Cu Spectra Series Busway.
  - Main Circuit Breaker (MCB) devices as shown at right (See Table 2.2 - Main Circuit Breaker Availability).
  - With SG MCB, the A-Series LP interior must be engineered with 200% neutral lugs (MOD CODE N2). Feed through lugs (MOD CODE THRU) and sub-feed breakers cannot be selected with this configuration.
- The short circuit rating is limited to the lower short circuit rating of either the A-Series LP interior, the vertical Busway, or the main circuit breaker device.
- Right/Left Mounting refers to the stab location with respect to the busway, when facing the phase/front side of the busway.
- The service voltage of the vertical riser Busway, must match the service voltage of the A-Series LP. Only 60 hertz frequency is allowed for this application.
- For the Busway Panel Plug installation instructions refer to GEH5658B.
- For 150A Plug rating, with a horizontal Main Circuit Breaker (MCB), the MCB must be engineered in Speedi such that it is always on the same side as the stab enclosure plug-in unit.

## Ordering Information

Type	Code	Description
		SB
Amps	150	150 A
	250	250 A
	400	450 A
Service	4	3-Phase, 4-Wire, Grounded
Height	31	31.5" high
	37	37.5" high
	43	43.5" high
	49	49.5" high
	55	55.5" high
	64	64.5" high
Stab Location	R	Right side
	L	Left side
Phase Location	P	Phase A in front; Neutral in back

**Table 2.1**  
Example

<b>1A Interior</b>	AQF3424JTX AXN2
<b>1B Box</b>	AB64B Not Supplied
<b>1C Front</b>	AF64S Not Supplied
<b>Dimensions</b>	64.5"H x 20"W x 5.75"D

**Table 2.2**  
Main Circuit Breaker Availability

Plug Rating (A)	MCB Type	No. of Poles	Max. Voltage (V, RMS)	MCB Rating (A)	MCB Interruption Current Rating (ka)		
					240V	480V	600V
150	THQB	3	240	70-100	10	-	-
150	THHQB	3	240	70-100	22	-	-
150	TEYF	3	480	70-100	65	18-	-
150	TEYD	3	480	70-125	65	25	-
150	TEYH	3	480	70-125	65	35	-
150	TEYL	3	480	70-125	100	65	-
150	SED	2,3	600	15-150	18	18	14
150	SEH	2,3	600	15-150	65	25	18
150	SEL	2,3	600	15-150	100	65	25
150	SEP	2, 3	600	15-150	200	100	25
250	SFH	3	600	70-250	65	25	18
250	SFL	3	600	70-250	100	65	25
250	SFP	3	600	70-250	200	100	25
250	FEH	3	480	25-250	200	100	-
250	FEN	3	480	25-250	150	65	-
400	SGD	3	600	125-400	65	-	-
400	SGH	3	600	125-400	65	35	25
400	SGL	3	600	125-400	100	65	65
400	SGP	3	600	125-400	200	100	65



## Features and Benefits

### Right/Left Mounting

The Busway Panel Plug can be connected on either side of the busway, left or right.

### Alignment Pin

An alignment pin polarizes and locates only the correct position.

### Sliding Feature

While the A-Series LP stays rigidly attached to the wall, the stab enclosure and base slide along the panelboard within a stainless steel channel to provide a near frictionless finish. This design strategically accounts for the thermal expansion on either side, top or bottom, of the busway – up to 2" deflection corresponding to busway at 90 °C.

### Polarization

The vertical riser busway is always engineered with Phase A in the front, farther from the wall, to ensure that the phases are always matched between the Busway Panel Plug and the vertical riser Busway.

### One Design Fits All

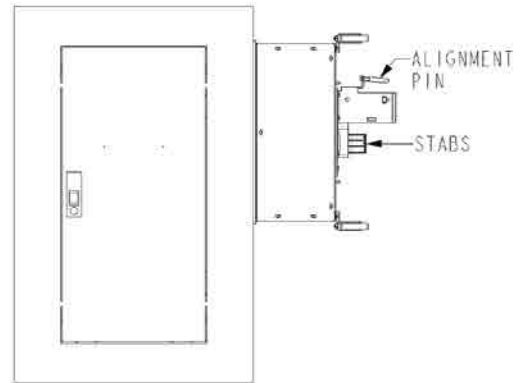
The stab enclosure plug is the same geometrically for 150 A – 400 A Busway Panel Plugs.

### Compression Terminals

The connections between the panelboard and plug stab assembly use compression terminals. Unlike mechanical terminals, compression terminals do not require re-torquing over time; thus, they need less maintenance, if any.

### Lower Install Cost

Since you no longer need to add another bus plug for every panelboard in the system, the installation costs – and the resulting electrical system costs – are lower.



Left-mounted with alignment pin above stabs

## Imagination at work

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