



Spectra Busway Features/Options

Spectra II Busway:

Spectra II is a hybrid of Spectra and Low Amp busway. This busway style uses plug-in sections manufactured similar to Low Amp and feeder and fitting sections manufactured as Spectra. This allows the customer the benefit of the lower cost of Low Amp plug-in with the dimensional flexibility of Spectra for the feeder and fitting sections of the busway run.

Special Paint:

Spectra busway can be manufactured with custom colors. We offer two options of custom color coverage options. Option 1 is a 10% adder where the busway housing and plug covers only are painted. Option 2 is a 15% adder where the complete busway system is painted including the hardware.

Busway Applications with harmonics:

For busway applications where non-linear loads are present, first determine the specific non-linear load condition for the application. Once the non-linear load condition is established, Spectra Series busway should be de-rated in accordance with Option A.

Where full nameplate loading is required, Spectra Series busway should be sized in accordance with Option B. By increasing both phase and neutral bars equally, The busway will operate within UL heat rise limits at full name plate rating, based on load conditions, up to twice rated neutral current in the neutral conductor.

Table 5.2

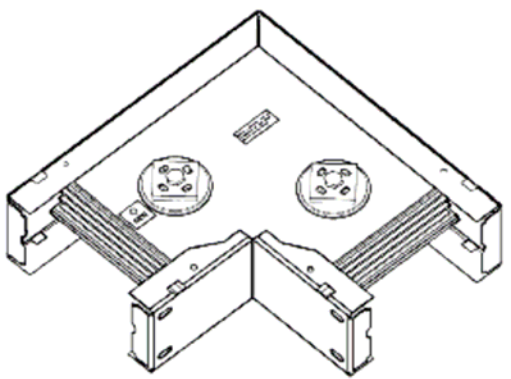
Non-linear Load (Neutral Harmonic Current/Total Phase Current)	Option A			Option B	
	Derating Factor	Phase Bar Width	Neutral Bar Width	Phase Bar Width	Neutral Bar Width
0.00	1.000	X	X	Not Required	
1.00	0.866	X	X	X * 1.15	X * 1.15
1.25	0.811	X	X	X * 1.23	X * 1.23
1.50	0.756	X	X	X * 1.32	X * 1.32
1.75	0.703	X	X	X * 1.42	X * 1.42
2.00	0.655	X	X	X * 1.53	X * 1.53

Fitting Pricing:

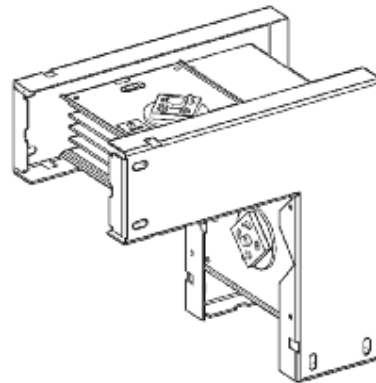
The fitting prices in Speedi are labor of forming charges and joint hardware only and do not include the busway footage through the fitting. This footage must be added through the fittings in order to have the correct amount of busway footage in the bill of material.

Joint Elbows:

The standard elbow fittings for Spectra busway are the joint elbow fittings shown below. Joint elbows will be provided unless, there is a dimensional reason to provide the traditional elbow with an extruded aluminum housing, or the customer requests at the time of order entry that the traditional type of elbows be provided.



Flatwise-joint elbow



Edgewise joint elbow

Joint elbows are available for all amp ratings, services, and conductor types.
Per the following table.

Table 15.1				
Bars per Phase	Bar Width (inches)	Center to Center Distance (inches)		
		Flatwise Elbows		Edgewise Elbows
		Indoor	Outdoor	Typical Indoor & Outdoor
1	1.625	3	4	6
	1.625	3	4	6
	2.250	3	4	6
	2.875	3	4	6
	3.375	4	4	6
	4.250	4	4	6
	4.500	4	4	6
	5.750	5	5	6
	6.500	5	5	6
	7.500	5	6	6
	8.250	5	6	6
2	4.000	8	N/A	6
	4.250	8	N/A	6
	4.500	8	N/A	6
	5.750	10	N/A	6
	6.500	10	N/A	6
	7.500	12	N/A	6
	8.250	12	N/A	6

Joint Stubs:

The standard stub fittings for Spectra busway are the joint stub fittings. These types of stubs will be provided unless there is a dimensional reason to provide the traditional stub. Joint stubs are not applicable on 5000 amp copper.

