



# Vertiv™ High Powerbar (HPB)



## Overview

The busduct is housed in an aluminum casing which acts as a ground with ingress protection rating of IP55..

### Features:

- Class B insulated epoxy coated conductor with tin plating
- Sandwich style busduct with spliced joint pack
- Maximum 6 busplug outlets with a busbar length of 12ft
- All busplugs have mechanical/ electrical interlocks with a 'ground first, break last' safety feature
- Stamped conductor tabs for busplug connections. All aluminum housing for reduced heat loss and better ground continuity

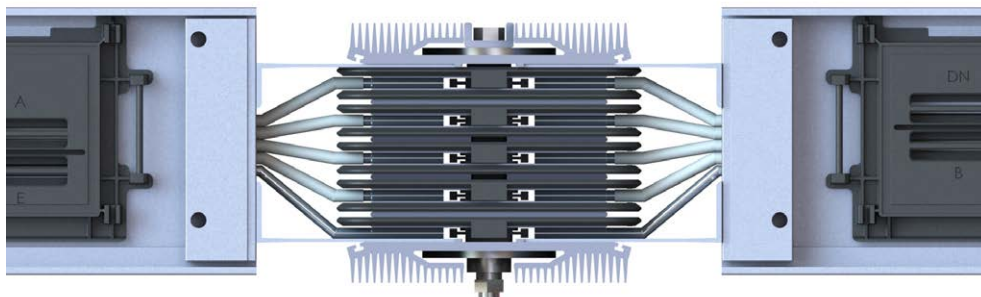
**All certificates available on request**



*Vertiv™ High Powerbar (HPB) is 600 Volt totally encased, non-ventilated, low impedance busduct. Vertiv HPB is available from 1000-4000A in Aluminum and 1000-5000A in Copper with multiple bar configurations to suit project requirements.*

## Standards

Vertiv HPB is UL857 listed and manufactured in a certified management system environment where Quality ISO 9001 standards are applied to all aspects of the manufacturing and installation processes. We meet the requirements of NEMA, CSA, IEEE & ANSI.

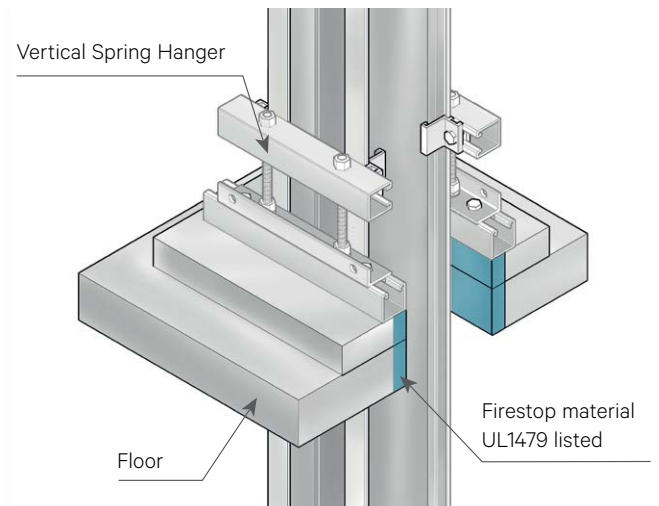


## Seismic Compliance

Vertiv HPB is certified for Seismic withstand capability and has a qualification level - high (Zone-5) in accordance to IEEE standard 693-2005.

## Technical Features

- Constructed from high density 99.99% conductivity copper or 57% aluminum.
- The conductors are insulated with a Class B epoxy insulation applied uniformly using an electrostatic coating process. The epoxy coating is non-hygroscopic and chemical resistant with outstanding heat transfer characteristics.
- The low impedance sandwich design:
  - Improves heat dissipation
  - Improves short circuit rating
  - Reduces voltage drop/ impedance
  - Removes potential pathways for flame, smoke and gas
- Constructed with an all-aluminum housing. Aluminum is much lighter than steel, making it more economical and easier to install. Aluminum is also less reactive than steel so it is more durable and easier to maintain.
- Offers 100% fully isolated ground for systems where ground isolation is required.
- Can be used in 'Through-Penetration Fire Stop Systems' as listed in the UL Fire Resistance Directory.



UL Fire Stop System

## Copper

Configuration	Phases	Neutral	Ground
3W	100%	0%	Case
4W	100%	100%	Case
3W+G	100%	0%	100%
4W+G	100%	100%	100%

## Aluminium

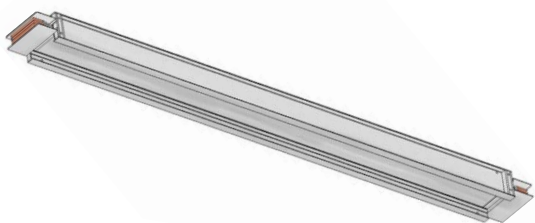
Configuration	Phases	Neutral	Ground
3W	100%	0%	Case
4W	100%	100%	Case
3W+G	100%	0%	100%
4W+G	100%	100%	100%

**Note:** Case refers to the aluminum casing being used as an integral ground. 100% ground bar can either be supplied as an isolated ground (ISO) or uninsulated internal ground (INT).

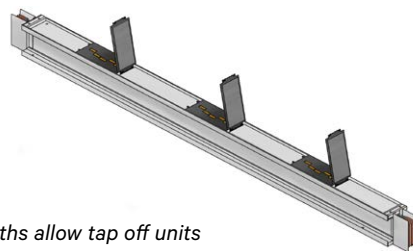
## STRAIGHT LENGTHS

### Straight Lengths

- Straight lengths can be supplied at any length between 2ft - 12ft.
- The busplug slot outlet and cover are made from a durable, high strength, Class B, 130°C insulation material.
- The busplug slot cover prevents access to the contacts behind the cover and protects it from the entry of dirt, dust or moisture. Busplugs are IP55 rated.



Feeder lengths account for the bulk of a busbar run



Distribution lengths allow tap off units to be plugged into the busbar run

### Copper

Busduct Rating (Amps)	Construction Type	Busduct Size			
		Width		Height	
		in	mm	in	mm
1000	Single	4.33	110	5.83	148
1200	Single	4.72	120	5.83	148
1350	Single	5.32	135	5.83	148
1600	Single	6.30	160	5.83	148
2000	Single	7.87	200	5.83	148
2500	Single	9.84	250	5.83	148
3000	Single	13.58	345	5.83	148
3200	Double	14.65	372	5.83	148
4000	Triple	19.69	500	5.83	148
5000	Triple	23.82	605	5.83	148

### Aluminium

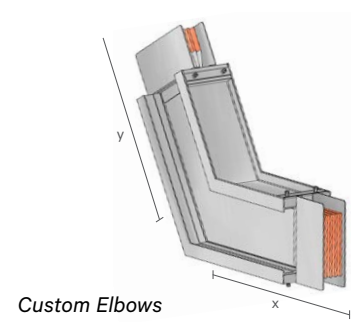
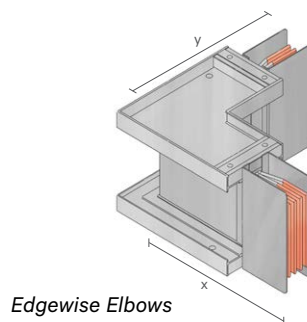
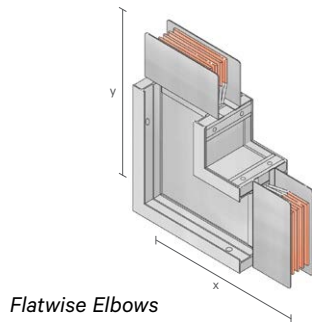
Busduct Rating (Amps)	Construction Type	Busduct Size			
		Width		Height	
		in	mm	in	mm
1000	Single	5.51	140	5.83	148
1200	Single	6.30	160	5.83	148
1350	Single	6.89	175	5.83	148
1600	Single	8.07	205	5.83	148
2000	Single	10.24	260	5.83	148
2500	Double	14.76	375	5.83	148
3000	Double	17.13	435	5.83	148
4000	Triple	23.82	605	5.83	148

**Note:** The maximum and minimum sizes recommended are not the limits of what can be produced but a guideline to help you choose the correct product. Dimensions are taken from the center of the joint.

## ELBOWS

### Flatwise and Edgewise Elbows

- Flatwise and edgewise elbows are used to make 90° changes in the direction of the busduct system. Vertiv™ can also manufacture specially angled elbows for both flatwise and edgewise products.



### Copper Flatwise Elbow (Up or Down)

Ratings (Amps)	Minimum Leg Size		Standard Leg Size		Maximum Leg Size	
	X and Y		X and Y		X and Y	
	in		in		in	
1000	9.84	250	14	355	30	762
1200	10.04	255	14	355	30	762
1350	10.33	263	14	355	30	762
1600	10.83	275	14	355	30	762
2000	11.61	295	14	355	30	762
2500	12.60	320	14	355	30	762
3000	14.47	368	14	355	30	762
3200	15.00	381	20	508	30	762
4000	17.52	445	20	508	30	762
5000	19.59	498	20	508	30	762

### Aluminium Flatwise Elbow (Up or Down)

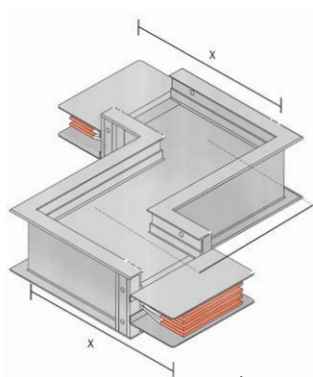
Ratings (Amps)	Minimum Leg Size		Standard Leg Size		Maximum Leg Size	
	X and Y		X and Y		X and Y	
	in	mm	in	mm	in	mm
1000	10.43	265	14	356	30	762
1200	10.83	275	14	356	30	762
1350	11.12	283	14	356	30	762
1600	11.71	298	14	356	30	762
2000	12.80	325	14	356	30	762
2500	15.06	383	20	508	30	762
3000	16.24	413	20	508	30	762
4000	19.59	498	20	508	30	762

### Edgewise Elbow (Left or Right)

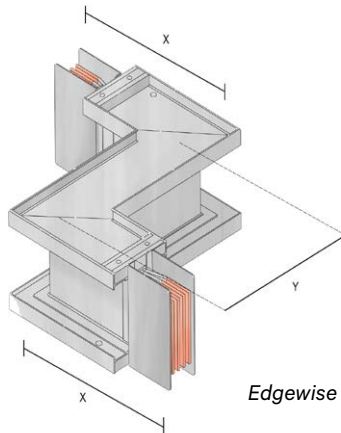
Ratings (Amps)	Minimum Leg Size		Standard Leg Size		Maximum Leg Size	
	X and Y		X and Y		X and Y	
	in	mm	in	mm	in	mm
1000, 1200, 1350, 1600, 2000, 2500, 3000, 3200, 4000, 5000	11.26	286	14	355	24	610

(3200A and 5000A for CU only)

## OFFSETS



Flatwise Offset



Edgewise Offset

### Offset Sections

- An offset is used to avoid any obstacles eg. pipes or to steel columns and to conform to the structure of the building.

### Copper Flatwise Offset (Up or Down)

Ratings (Amps)	Minimum Leg Size				Maximum Leg Size			
	X		Y		X		Y	
	in	mm	in	mm	in	mm	in	mm
1000	9.84	250	2	51	26	660	19.69	500
1200	10.04	255	2	51	26	660	20.08	510
1350	10.33	263	2	51	26	660	20.67	525
1600	10.83	275	2	51	26	660	21.65	550
2000	11.61	295	2	51	26	660	23.23	590
2500	12.60	320	2	51	26	660	25.20	640
3000	14.47	368	2	51	26	660	28.94	735
3200	15.00	381	2	51	26	660	30.00	762
4000	17.52	445	2	51	26	660	35.04	890
5000	19.59	498	2	51	26	660	39.17	995

### Aluminium Flatwise Offset (Up or Down)

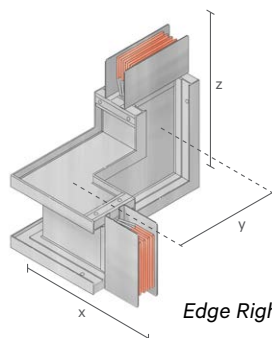
Ratings (Amps)	Minimum Leg Size				Maximum Leg Size			
	X		Y		X		Y	
	in	mm	in	mm	in	mm	in	mm
1000	10.43	265	2	51	26	660	20.87	530
1200	10.83	275	2	51	26	660	21.65	550
1350	11.12	283	2	51	26	660	22.24	565
1600	11.71	298	2	51	26	660	23.43	595
2000	12.80	325	2	51	26	660	25.59	650
2500	15.06	383	2	51	26	660	30.12	765
3000	16.24	413	2	51	26	660	32.48	825
4000	19.59	498	2	51	26	660	39.17	995

### Edgewise Offset (Left or Right)

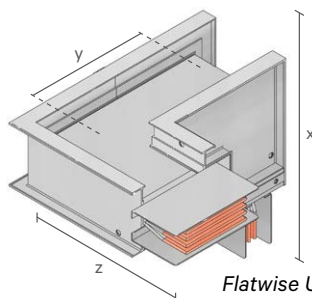
Ratings (Amps)	Minimum Leg Size				Maximum Leg Size			
	X		Y		X		Y	
	in	mm	in	mm	in	mm	in	mm
1000, 1200, 1350, 1600, 2000, 2500, 3000, 3200, 4000, 5000	11.26	286	3	76	20	508	24	610

(3200A and 5000A for CU only)

## COMBINATIONS



Edge Right Flatwise Up



Flatwise Up Edgewise Right

### Combination Elbows

- Combination elbows are used to conform to the building's structure and to change the direction of the busduct within a confined space.

### Copper

Ratings (Amps)	Minimum Leg Size					
	X (Edgewise side)		Y		Z (Flatwise side)	
	in	mm	in	mm	in	mm
1000	11.26	286	7.56	192	9.84	250
1200	11.26	286	7.76	197	10.04	255
1350	11.26	286	8.05	205	10.33	263
1600	11.26	286	8.54	217	10.83	275
2000	11.26	286	9.33	237	11.61	295
2500	11.26	286	10.31	262	12.60	320
3000	11.26	286	12.19	310	14.47	368
3200	11.26	286	12.72	323	15.00	381
4000	11.26	286	15.24	387	17.52	445
5000	11.26	286	17.30	440	19.59	498

Ratings (Amps)	Maximum Leg Size					
	X (Edgewise side)		Y		Z (Flatwise side)	
	in	mm	in	mm	in	mm
1000	24	610	21.10	536	30	762
1200	24	610	21.30	541	30	762
1350	24	610	21.59	549	30	762
1600	24	610	22.09	561	30	762
2000	24	610	22.87	581	30	762
2500	24	610	23.86	606	30	762
3000	24	610	25.73	654	30	762
3200	24	610	26.26	667	30	762
4000	24	610	28.78	731	30	762
5000	24	610	30.85	784	30	762

### Aluminium

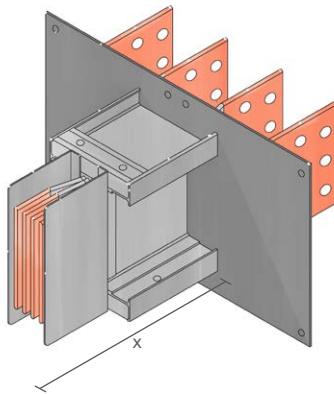
Ratings (Amps)	Minimum Leg Size					
	X (Edgewise side)		Y		Z (Flatwise side)	
	in	mm	in	mm	in	mm
800	11.26	286	7.76	197	10.04	255
1000	11.26	286	8.15	207	10.43	265
1200	11.26	286	8.54	217	10.83	275
1350	11.26	286	8.84	225	11.12	283
1600	11.26	286	9.43	240	11.71	298
2000	11.26	286	10.51	267	12.80	325
2500	11.26	286	12.78	325	15.06	383
3000	11.26	286	13.96	355	16.24	413
4000	11.26	286	17.30	440	19.59	498

Ratings (Amps)	Maximum Leg Size					
	X (Edgewise side)		Y		Z (Flatwise side)	
	in	mm	in	mm	in	mm
800	24	610	21.30	541	30	762
1000	24	610	21.69	551	30	762
1200	24	610	22.09	561	30	762
1350	24	610	22.38	568.5	30	762
1600	24	610	22.97	583.5	30	762
2000	24	610	24.06	611	30	762
2500	24	610	26.32	668.5	30	762
3000	24	610	27.50	698.5	30	762
4000	24	610	30.85	783.5	30	762

## FLANGES

### Flange Connections

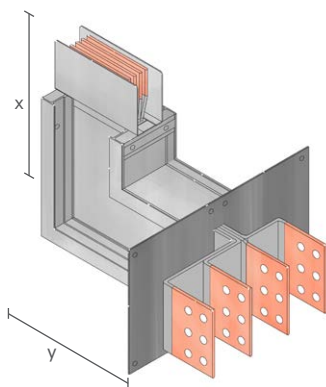
- Flange connections provide a direct connection to low voltage switchgear, transformer enclosures and other electrical equipment. Standard flanges can be offset to the left or right of the section as required.



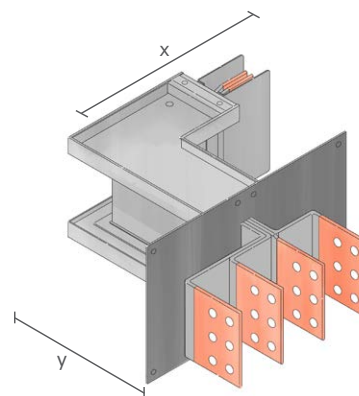
*Panel Flange*

### Combination Flange

- A combination flange is used when the minimum leg lengths for either the standard elbow or the standard flange cannot be met.



*Flatwise Elbow Flange*



*Edgewise Elbow Flange*





Flange/Elbows Flatwise



Flange/Elbows Edgewise

### Copper Flange/Elbows (Flatwise)

Ratings (Amps)	Minimum Leg Size				Maximum Leg Size			
	X		Y		X		Y	
	in	mm	in	mm	in	mm	in	mm
1000	9.84	250	3.31	84	30	762	19.69	500
1200	10.04	255	3.41	87	30	762	20.08	510
1350	10.33	263	3.55	90	30	762	20.67	525
1600	10.83	275	3.80	97	30	762	21.65	550
2000	11.61	295	4.19	107	30	762	23.23	590
2500	12.60	320	4.69	119	30	762	25.20	640
3000	14.47	368	5.62	143	30	762	28.94	735
3200	15.00	381	5.89	150	30	762	30.00	762
4000	17.52	445	7.15	182	30	762	35.04	890
5000	19.59	498	8.18	208	30	762	39.17	995

### Aluminium Flange/Elbows (Flatwise)

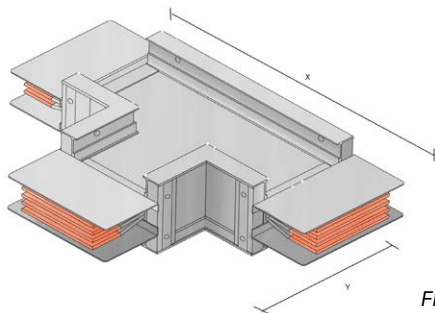
Ratings (Amps)	Minimum Leg Size				Maximum Leg Size			
	X		Y		X		Y	
	in	mm	in	mm	in	mm	in	mm
1000	10.43	265	3.60	92	30	762	20.87	530
1200	10.83	275	3.80	97	30	762	21.65	550
1350	11.12	283	3.95	100	30	762	22.24	565
1600	11.71	298	4.24	108	30	762	23.43	595
2000	12.80	325	4.78	122	30	762	25.59	650
2500	15.06	383	5.92	150	30	762	30.12	765
3000	16.24	413	6.51	165	30	762	32.48	825
4000	19.59	498	8.18	208	30	762	39.17	995

### Flange/Elbows (Edgewise)

Ratings (Amps)	Minimum Leg Size				Maximum Leg Size			
	X		Y		X		Y	
	in	mm	in	mm	in	mm	in	mm
1000, 1200, 1350, 1600, 2000, 2500, 3000, 3200, 4000, 5000	11.26	286	4.88	124	24	610	22.52	527

(3200A and 5000A for CU only)

## SPECIALS



Flatwise Tee

### Flatwise Tee's

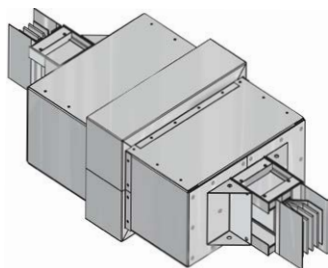
- Flatwise tee's are used to split one busduct run into two runs going in different directions.

### Copper

Ratings (Amps)	Minimum Leg Size				Standard Leg Size				Maximum Leg Size			
	X		Y		X		Y		X		Y	
	in		in		in		in		in		in	
1000	19.69	500	9.84	250	28	712	14	356	60	1524	26	660
1200	20.08	510	10.04	255	28	712	14	356	60	1524	26	660
1350	20.67	525	10.33	263	28	712	14	356	60	1524	26	660
1600	21.65	550	10.83	275	28	712	14	356	60	1524	26	660
2000	23.23	590	11.61	295	28	712	14	356	60	1524	26	660
2500	25.20	640	12.60	320	28	712	14	356	60	1524	26	660
3000	28.94	735	14.47	368	28	712	14	356	60	1524	26	660
3200	30.00	762	15.00	381	40	1016	20	508	60	1524	26	660
4000	35.04	890	17.52	445	40	1016	20	508	60	1524	26	660
5000	39.17	995	19.59	498	40	1016	20	508	60	1524	26	660

### Aluminium

Ratings (Amps)	Minimum Leg Size				Standard Leg Size				Maximum Leg Size			
	X		Y		X		Y		X		Y	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1000	20.87	530	10.43	265	28	711	14	356	60	1524	26	660
1200	21.65	550	10.83	275	28	711	14	356	60	1524	26	660
1350	22.24	565	11.12	283	28	711	14	356	60	1524	26	660
1600	23.43	595	11.71	298	28	711	14	356	60	1524	26	660
2000	25.59	650	12.80	325	28	711	14	356	60	1524	26	660
2500	30.12	765	15.06	383	40	1016	20	508	60	1524	26	660
3000	32.48	825	16.24	413	40	1016	20	508	60	1524	26	660
4000	39.17	995	19.59	498	40	1016	20	508	60	1524	26	660



Expansion Unit

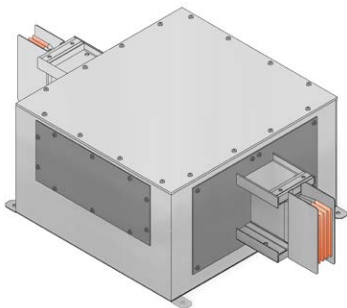
### Expansion Units

- Expansion units are used to accommodate the expansion and contraction of a busduct system as well as allow for building movement. They allow for a 2" movement along the length of the busduct.
- Expansion units are recommended when a straight busduct run exceeds 196ft.

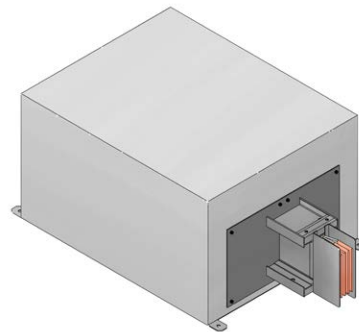
## FEED UNITS & CAPS

### Cable Feed Units

- End feed units are used on the ends of busduct risers which are cable fed. Center feed units are used in the middle of busduct risers which are cable fed.
- The size of cable feed required depends on a number of factors:
  - rating of busduct
  - size of cable
  - number of cables
  - use of a protective device or isolator



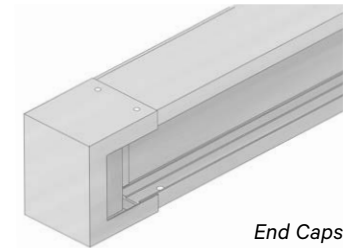
*Center Feed Units*



*End Feed Units*

### End Caps

- End caps are used to safely cap off the end of a busduct run. The end cap units are factory fitted but can be easily removed to allow for the extension of the system.



*End Caps*

## JOINT



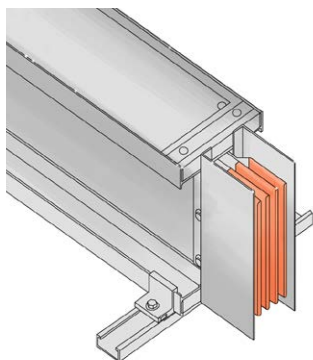
*Joint*

### Joint

- Vertiv™ HPB splice is a compression joint design should be utilizing a specially designed conical washer to distribute the pressure evenly over the splice. The joint is supplied in specific sizes depending on the rating of busduct required.

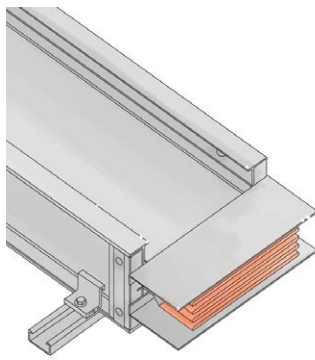
## INSTALLATION

The modular design of HPB allows it to be installed flat or on its edge.



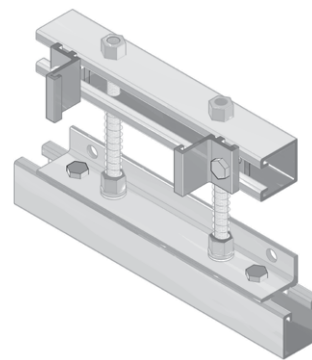
### Edge Installation

- Edge installation is the preferred method of installation for a smaller rated busduct system.



### Flat Installation

- Flat installation is the preferred method of installation for a higher rated, multistack busduct system. When installed on its flat all busduct rating has a height of 150mm.



### Spring Hanger

- Spring hangers are used to support vertical busbar runs on each floor. They compensate for building movement and thermal expansion.

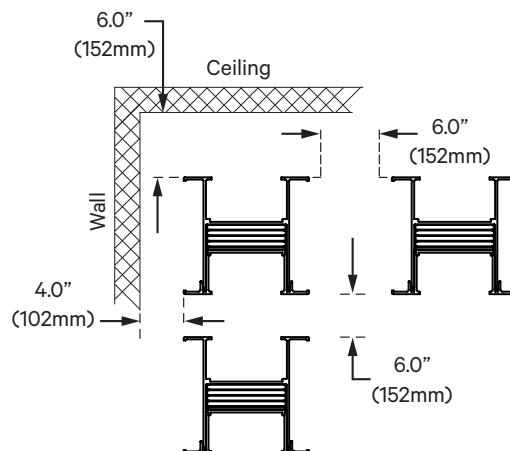
### Special Pieces

**Vertiv manufactures a variety of more specialized units and components to meet unique system requirements. These include: edgewise tee's, flatwise cross, step up/ step down reducers, in-line disconnect cubicles, in-line tap off units, custom built busbar connection units.**

## Quick Reference Guide

### Critical Dimensions

- All joints must be accessible for maintenance. Joints should not be located inside a wall, ceiling or floor.
- Allow adequate space for busplug units to be installed easily and safely.
- Busbar lengths are available from 2ft - 12ft (CU up to 10 ft.).
- Distribution busbar lengths are available from 2ft - 12ft (CU up to 10 ft.).
- Edgewise elbow sections are available with leg lengths from 10in - 2ft.
- Flatwise elbow sections are available with a maximum leg length of 2.5ft. The minimum leg length varies depending on the busbar.

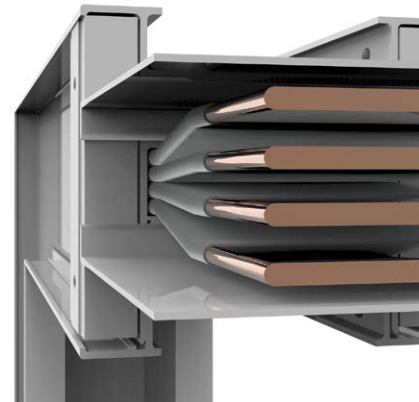


## Operating Conditions

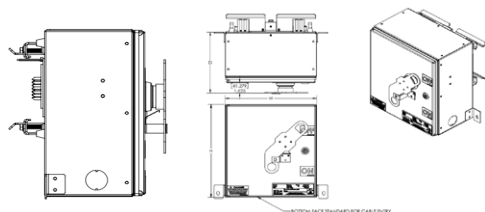
- Ambient temperature from -22°F to +131°F.
- This product designed for indoor use and can be installed horizontally or vertically.

## Critical Details

- Busduct drawings must include all relevant dimensions. Center-line dimensions are expected. Please highlight any dimensions that are not center-line.
- Walls and floors must be indicated and the relevant dimensions provided.
- The phasing and location of all switchboards must be provided.
- Full details are required for any transformer connections.
- Horizontal busduct must be installed with the neutral phase to the top. Please indicate the phase orientation for vertically installed busduct.



## BUS PLUGS FOR HORIZONTAL BUSDUCT APPLICATIONS



- Fusible bus plugs are rated 200 kA at 600V
- Maximum rating dependent upon circuit breaker rating
- All bus plugs have mechanical interlock which does not allow the door to be opened while busplug is in the “on” position
- Lugs not included
- Hook stick operational

### Fusible Bus plugs, 600V, J fuse, IP55

Amperage	Device Manufacturer	H		W		D	
		in		in		in	
30, 60, 100	ABB, Socomec	17.91	455	10.24	260	9.843	250
200	ABB, Socomec	20.2	513	17.91	455	9.921	252
400	ABB, Socomec	21.81	554	22.83	580	14.76	375
600*	ABB, Socomec	24.02	610	32.99	838	16.54	420

### Circuit Breaker, IP55

Amperage	CB Manufacturer	H		W		D	
		in		in		in	
125	ABB, Schneider	19.69	500	10.71	272	11.81	300
250	ABB, Schneider	21.26	540	12.99	330	11.81	300
400	ABB, Schneider	22.17	690	18.5	470	11.81	300
600/800*	ABB, Schneider	18.5	470	35.87	911	11.81	300

\*Busplug requires Qty (2) plug positions

## Technical Data AL

<b>Ampere Rating at 600Vac (max)</b>	<b>800</b>	<b>1000</b>	<b>1200</b>	<b>1350</b>	<b>1600</b>	<b>2000</b>	<b>2500</b>	<b>3000</b>	<b>4000</b>
Busway Width x Ht. inches (mm)	4.72 x 5.83 (120 x 148)	5.51 x 5.83 (140 x 148)	6.30 x 5.83 (160 x 148)	6.89 x 5.83 (175 x 148)	8.07 x 5.83 (205 x 148)	10.24 x 5.83 (260 x 148)	14.76 x 5.83 (375 x 148)	17.13 x 5.83 (435 x 148)	23.82 x 5.83 (605 x 148)
Bar Width x 6mm Thick (#/phase)	60	80	100	115	145	200	115 (2)	145 (2)	125 (3)
<b>Ohms x 103 per 100 feet (includes joint packs)</b>									
<b>Line to neutral</b>									
R Resistance at 68°F (20°C)	2.092	2.009	1.397	1.245	1.165	0.844	0.741	0.582	0.397
R Resistance at 176°F (80°C)	2.628	2.527	1.754	1.562	1.466	1.061	0.93	0.732	0.497
X Reactance at 60Hz	0.436	0.43	0.308	0.278	0.265	0.201	0.16	0.134	0.094
Z Impedance at 176°F (80°C)	2.139	2.058	1.427	1.285	1.195	0.866	0.758	0.598	0.406
<b>Voltage Drop Full Load 60 Hz per 100 ft</b>									
<b>(V/100ft) at 176°F (80°C)</b>									
Power Factor = 0.7	2.98	3.60	3.01	3.02	3.37	3.07	3.32	3.16	2.88
Power Factor = 0.8	3.28	3.95	4.09	3.31	3.69	3.36	3.64	3.46	3.15
Power Factor = 0.9	3.54	4.26	3.56	3.57	3.98	3.61	3.93	3.73	3.39
Power Factor = 1.0	3.64	4.38	3.65	3.65	4.06	3.68	4.03	3.80	3.45
<b>Approximate Weight</b>									
<b>3ø, 3-Wire</b>									
lbs/ft	8	9	10	10	12	15	21	24	33
kg/m	11	13	14	15	18	22	31	35	49
<b>3ø, 3-Wire with internal ground</b>									
lbs/ft	8	9	11	12	14	17	24	27	37
kg/m	12	14	16	17	20	25	35	41	55
<b>3ø, 4-Wire</b>									
lbs/ft	8	9	11	12	14	17	24	27	37
kg/m	12	14	16	17	20	25	35	41	55
<b>3ø, 4-Wire with internal ground</b>									
lbs/ft	9	10	12	13	15	19	26	31	42
kg/m	13	16	18	20	23	29	39	46	62

## Technical Data CU

Ampere Rating at 600Vac (max)	800	1000	1200	1350	1600	2000	2500	3000	3200	4000	5000
Busway Width x Ht. inches (mm)		4.33 x 5.83 (110 x 148)	4.72 x 5.83 (120 x 148)	5.32 x 5.83 (135 x 148)	6.30 x 5.83 (160 x 148)	7.87 x 5.83 (200 x 148)	9.84 x 5.83 (250 x 148)	13.58 x 5.83 (345 x 148)	14.65 x 5.83 (372 x 148)	19.69 x 5.83 (500 x 148)	23.82 x 5.83 (605 x 148)
Bar Width x 6mm Thick (#/phase)	45	50	60	75	100	140	190	100 (2)	110 (2)	90 (3)	125 (3)

### Ohms x 103 per 100 feet (includes joint packs)

#### Line to neutral

R Resistance at 68°F (20°C)	1.45	1.45	1.098	0.838	0.564	0.48	0.327	0.293	0.29	0.232	0.149
R Resistance at 176°F (80°C)	1.785	1.785	1.385	1.042	0.732	0.587	0.403	0.341	0.335	0.283	0.199
X Reactance at 60Hz	0.558	0.558	0.497	0.406	0.293	0.267	0.176	0.146	0.144	0.129	0.075
Z Impedance at 176°F (80°C)	1.84	1.84	1.437	1.092	0.756	0.64	0.428	0.366	0.359	0.309	0.199

### Voltage Drop Full Load 60 Hz per 100 ft

#### (V/100ft) at 176°F (80°C)

Power Factor = 0.7	2.85	2.85	2.75	2.38	2.00	2.08	1.77	1.79	1.87	2.01	1.67
Power Factor = 0.8	3.05	3.05	2.92	2.52	2.11	2.18	1.85	1.88	1.97	2.10	1.77
Power Factor = 0.9	3.20	3.20	3.04	2.61	2.18	2.23	1.90	1.93	2.02	2.15	1.83
Power Factor = 1.0	3.09	3.09	2.88	2.44	2.02	2.03	1.75	1.77	1.86	1.96	1.72

### Approximate Weight

#### 3Ø, 3-Wire

lbs/ft	14	16	18	21	26	34	43	N/A	53	72	74
kg/m	9	11	12	14	17	23	29	N/A	35	48	50

#### 3Ø, 3-Wire with internal ground

lbs/ft	16	19	22	25	32	42	54	N/A	64	87	89
kg/m	10	13	15	17	21	28	36	N/A	43	58	60

#### 3Ø, 4-Wire

lbs/ft	16	19	22	25	32	42	54	N/A	64	87	89
kg/m	10	13	15	17	21	28	36	N/A	43	58	60

#### 3Ø, 4-Wire with internal ground

lbs/ft	18	22	25	30	37	50	65	N/A	76	102	104
kg/m	12	15	17	20	25	33	44	N/A	51	68	70



**Vertiv.com** | Vertiv Headquarters, 505 N Cleveland Ave, Westerville, OH 43082, USA

© 2023 Vertiv Group Corp. All rights reserved. Vertiv™ and the Vertiv logo are trademarks or registered trademarks of Vertiv Group Corp. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness here, Vertiv Group Corp. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications, rebates and other promotional offers are subject to change at Vertiv's sole discretion upon notice.