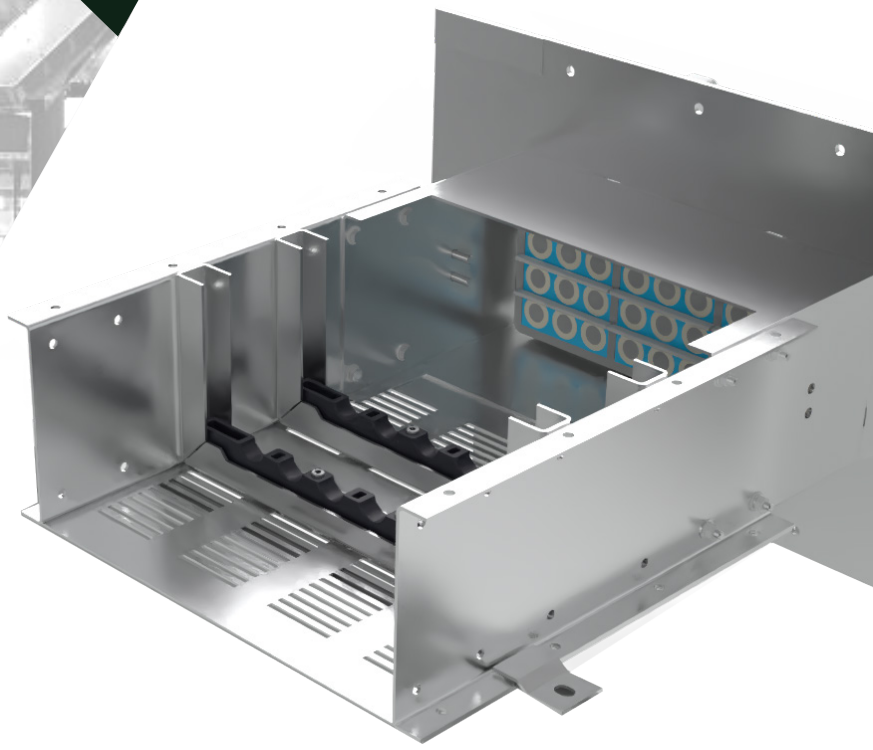
POWELL

CABLE BUS CATALOG



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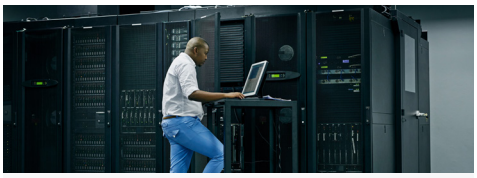
TYPICAL APPLICATIONS

Cable bus is a safe and cost effective way to carry high currents at voltage classes ranging from < 600V to 38kV. The system utilizes cable conductors that are spaced using engineered cable supports to facilitate convective cooling, and thereby maximize system ampacity. Powell's Cable Bus has been designed and tested to withstand forces resultant from short circuit events, ensuring safe and efficient power transmission while protecting personnel and critical assets.



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COMMERCIAL

ENERGY

ELECTRICAL UTILITIES

RENEWABLE ENERGY

CABLE BUS VS ALTERNATIVES

Competitive Systems

Cable bus is competitive with other cable management systems. Installation is very similar to cable tray products, while offering superior safety features and a lower total system cost.

Ampacity Comparison

Powell's Cable Bus solutions allow for increased current density per conductor by aligning with the free-air ratings as defined within NEC and CEC. The example table shows the advantage of Cable Bus for 90°C Temperature applications. Data Center applications at 75°C Temperature will show a similar advantage as compared to tray and conduit.

Made in America/Canada

Ampacity Comparison: Powell Cable Bus vs the Field

System Rating	Conductor Size	Powell Cable Bus Systems[1]	Insulated Three Conductor Copper Cable in Tray[2]	3 Single-Conductor Copper Cable in Conduit in Air[3]
600V	500 kcmil	637	391	391
	750 kcmil	805	487	487
	1000 kcmil	960	560	560
5kV	500 kcmil	695	485	475
	750 kcmil	900	615	600
	1000 kcmil	1075	705	690
15kV	500 kcmil	685	535	480
	750 kcmil	885	670	585
	1000 kcmil	1060	770	675

Table 1: Comparison for copper cable, 90C temperature, 40C ambient .

[1] Per NEC, Copper Cable, 90°C Temp, 40°C Ambient
[2] Per NEC Table 310.16 (LV) and Table 311.60(C)(71) MV
[3] Per NEC Table 310.16 (LV) and Table 311.60(C)(73) MV

Cable bus system is typically a more cost competitive solution as compared to bus bars, and a safer solution than regular cable tray, offering a completely engineered system that is used in multiple industries and markets in need of power distribution. Please contact your Powell representative with any questions on how cable bus fits your specific application.

SYSTEM DESIGN & CONSTRUCTION

Powell's cable bus system is engineered to provide a robust and efficient solution for power distribution. This system is characterized by its unique design, which ensures that the conductors are housed within a single metal enclosure, effectively minimizing electromagnetic interference, maximizing safety, and increasing current carrying capacity of the system.

Safety Features

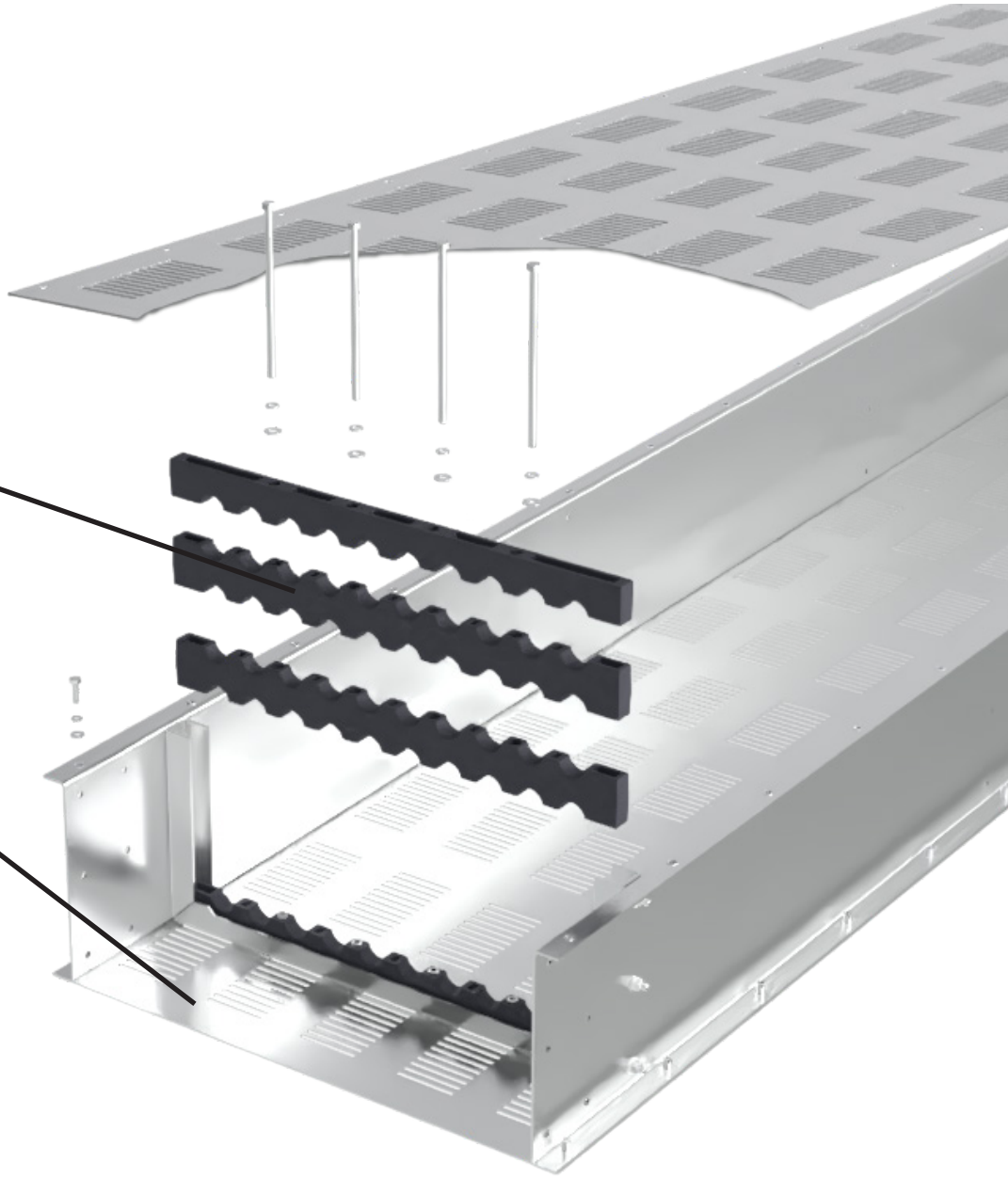
Safety is paramount in the design of all Powell's products, including Powell's cable bus system. The rigid U-frame construction is engineered and tested to withstand the short circuit forces during an electrical fault. The enclosure is designed to withstand environmental challenges, including moisture ingress and external contaminants, thanks to dedicated vapor barriers and fire stop assemblies that protect against hazardous conditions.

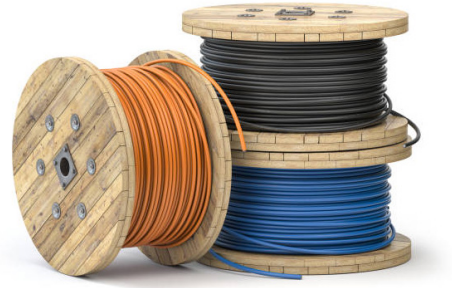
Molded Cable Support

Cables within the bus are supported using polymer supports that are strategically placed to maintain the required spacing between cables, enabling free-air ampacity ratings. The cable supports are engineered to accommodate a full range of cable sizes and constructions, providing a secure fit throughout the entire length of the circuit.

Ventilated Enclosed Covers

The cable bus enclosure is typically constructed from high-strength, non-coated aluminum alloy, which minimizes weight for improved handling and installation. The enclosure includes ventilated top and bottom covers to allow for proper air circulation and to prevent overheating for optimal performance.





Electrical Terminations

The cable bus system also features specialized terminations that ensure reliable connections to various electrical equipment. These terminations are designed to meet or exceed industry standards, providing a secure and low-resistance connection.

CONFIGURATION & CODE TABLES

This catalog is for metal-enclosed cable bus from 600V through 38kV applications, suitable for indoor or outdoor installations with nominal current ratings operating in ambient temperatures to 40°C. Configurations shown are based on a 40°C ambient condition. For standard configurations based on other ambient conditions, please contact you local Powell Sales representative. The parts and assembly drawings will form the basis for developing the cable bus arrangements to manufacture and install. Configurations of cable bus include low voltage and medium voltage ratings according to the following tables.

The tables below meet the requirement of NEC for conductor ampacities within the 75°C temperature rise in enclosed spaces, such as termination in most UL891 Switchboards. Note that Powell's UL891 switchboard FlexBoardTM accepts terminations at 90°C when using copper conductors in Powell's Cable bus. Additional configuration tables for 4W, higher termination temperature ratings, and higher voltage classes, are available in Appendix A. Enclosure sizes shown in bold are available as fast-track order

LV - 40C Ambient (Compliant to NEC 110.14) 3-Wire Configurations

COPPER CONDUCTOR CU								
		8 x 18	10 x 18	10 x 21	**10 x 25**	**12 x 25**	**12 x 32**	15 x 32
75C, 3-Wire	800A	3/500 MCM						
	1200A	4/500 MCM 3/750 MCM						
	1600A	4/750 MCM	5/500 MCM					
	2000A		6/500 MCM 5/750 MCM					
	2500A			8/500 MCM 7/600 MCM				
	3000A			8/600 MCM	9/500 MCM			
	3500A				10/600 MCM 9/750 MCM			
	4000A				10/750 MCM 9/1000 MCM	11/600 MCM		
	5000A					12/750 MCM 11/1000 MCM		
	6000A						14/750 MCM	

ALUMINUM CONDUCTOR AL								
		8 x 18	10 x 18	10 x 21	**10 x 25**	**12 x 25**	**12 x 32**	15 x 32
75C, 3-Wire	800A	3/500 MCM						
	1200A		5/500 MCM 4/600 MCM					
	1600A		6/500 MCM 5/750 MCM					
	2000A		6/750 MCM	7/600 MCM				
	2500A			8/750 MCM	9/500 MCM			
	3000A				10/600 MCM 9/750 MCM			
	3500A				10/750 MCM 9/1000 MCM			
	4000A				10/1000 MCM		13/600 MCM 12/750 MCM	
	5000A						13/1000 MCM	15/750 MCM
	6000A							15/1000 MCM

CODE TABLES CONTINUED

The following is a description of the part numbering system, which includes key information about each cable bus part. The tables provide a definition of each field comprising the part number. Default values are underlined in the charts below. Non-standard values can result in additional engineering time as compared to a standard design.

ASSEMBLY/KIT	
Description	**Code**
Straight Horizontal	SH
Straight Vertical	SV
Horizontal Elbow (90Deg)	EH
Vertical Elbow Top (90Deg)	ET
Vertical Elbow Bottom (90Deg)	EB
Horizontal Partial Elbow (30, 45, 60 Deg)	PH
Vertical Partial Elbow Top (30, 45, 60 Deg)	PT
Vertical Partial Elbow Bottom (30, 45, 60 Deg)	PB
Splice Kit	SK
Horizontal Seismic Kit	HSK
Vertical Seismic Kit	VSK
Expansion Housing Kit	ESK
Knee Brace Kit	KB
Knee Brace Splice	KBS
Enclosure Termination Kit Horizontal	ETH
Enclosure Termination Kit Vertical	ETV
MCT Wall Penetration	EWK
Environmental Seal Kit	EVK
Support Block	SB
Cable Termination Kit	CTK
Fire Rated Wall Penetration	FWK
Enclosure Hold Down Clip	HDK

VOLTAGE	
Voltage	**Code**
<1058V	LV
5kV to 38kV	MV

CONDUCTOR MATERIAL	
Material	**Code**
Copper	CU
Aluminum	AL

MATERIAL	
Hardware/ Conductor	**Code**
304SS	**SS4**
316SS	SS6
GR5 Zinc	GR5
Si-Bronze	BRZ
Enclosure	**Code**
1100AL	AL1
5052AL	**AL2**

LUG HW ARRANGEMENT	
Value	**Code**
Std.	**L1**
One Belv.	L2
Two Belv.	L3
TBD	L4

FIRE RATING	
Value	**Code**
2 Hour	F2
3 Hour	F3

WALL THICKNESS	
Value	**Code**
Up to 6"	W06
Up to 12"	W12
Up to 18"	W18
Up to 24"	W24

EXPANSION KIT GAB	
Voltage	**Code**
6"	G06
12"	G12

FRATIONAL LENGTH	
Value	**Code**
0.00"	**0**
0.25"	25
0.50"	50
0.75"	75

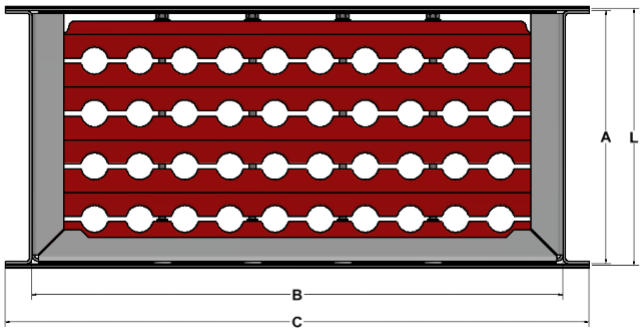
OFFSET ANGLES	
Value	**Code**
45	D45
30	D30

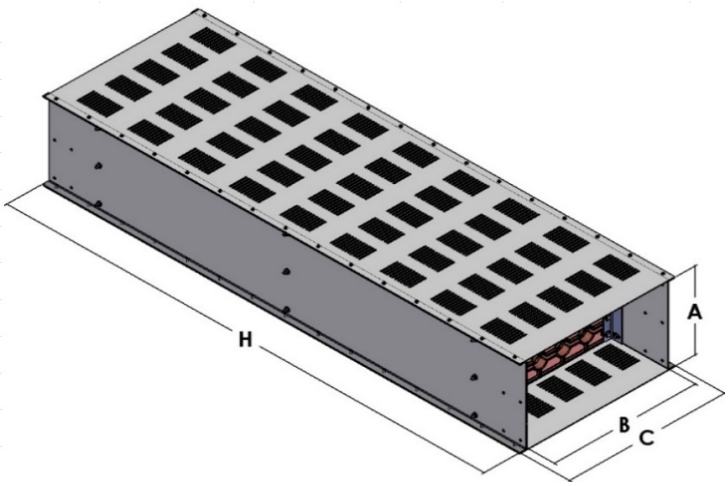
BLOCK CABLE RANGE	
Value	**Code**
0.75" -> 1.00"	A
1.00" -> 1.28"	B
1.28" -> 1.50"	C
1.50" -> 1.75"	D
1.75" -> 2.00"	E
2.00" -> 2.25"	F
2.25" -> 2.50"	G

PART SECTIONS

HORIZONTAL STRAIGHT SECTIONS

HORIZONTAL CODE: (SH)





Straight Sections of Cable Bus include top and bottom covers, fastening hardware, mountings for internal cable supports. Splicing kits are excluded, and can be found on Page 16.

- Horizontal Straight Section (HS) with Cable Supports positioned not to exceed 36in spacing.
- Vertical Straight Section (VS) with Cable Supports positioned not to exceed 18in spacing.

Notes:

- Cable Support Blocks to be ordered separately.
- For a 12ft horizontal straight section, a total number of 4 sets of blocks should be ordered.
- For a 6ft section, a total of 2 sets of blocks should be ordered.
- Hardware for top and bottom cover is included.

TABLE: DIMENSIONS (in Inches)

CONFIG.	A	B	C	L
6 X 12	6	12	14.5	6.25
8 X 12	8	12	14.5	8.25
8 X 18	8	18	20.5	8.25
10 X 18	10	18	20.5	10.25
10 X 21	10	21	23.5	10.25
10 X 25	10	25	27.5	10.25
12 X 21	12	21	23.5	12.25
12 X 25	12	25	27.5	12.25
12 X 28	12	28	30.5	12.25
12 X 32	12	32	34.5	12.25
15 X 32	15	32	34.5	15.25
16 X 28	16	28	30.5	16.25
18 X 28	18	28	30.5	18.25
20 X 28	20	28	30.5	20.25

Enclosure sizes shown in bold are available as fast-track order.

SECTION PART NUMBER EXAMPLE:

SH . **LV** . **10** . **25** . **AL2** . **144** . **00**

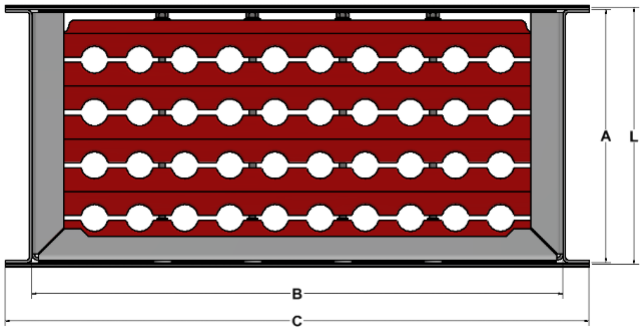
- **SH**: Straight Horizontal (SH)
- **LV**: Voltage Class
- **10**: Nominal Enclosure Height
- **25**: Nominal Enclosure Width
- **AL2**: Housing Material
- **144**: Length (in)
- **00**: Length (in, fractional)

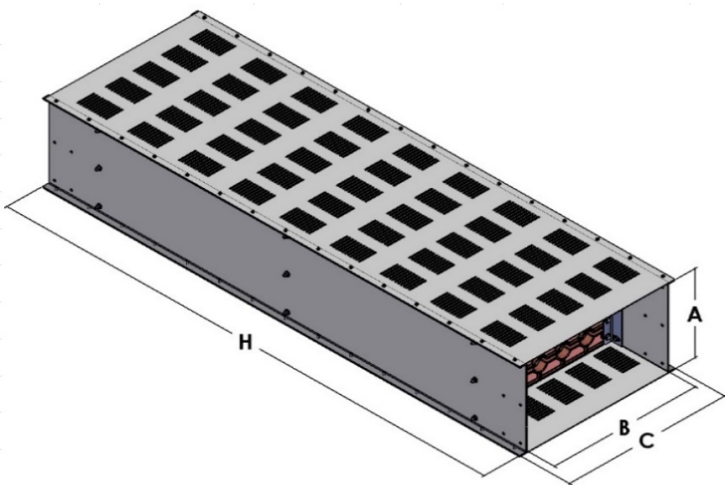
Sample Naming Output:

Fitting, Straight Horz., LV, 10 x 25 Nom., 5052 AL Enclosure, 144.00 Length

VERTICAL STRAIGHT SECTIONS

VERTICAL CODE: (SV)





Straight Sections of Cable Bus include top and bottom covers, fastening hardware, mountings for internal cable supports. Splicing kits are excluded, and can be found on Page 16.

- Horizontal Straight Section (HS) with Cable Supports positioned not to exceed 36in spacing.
- Vertical Straight Section (VS) with Cable Supports positioned not to exceed 18in spacing.

Notes:

- Cable Support Blocks to be ordered separately.
- For a 12ft horizontal straight section, a total number of 4 sets of blocks should be ordered.
- For a 6ft section, a total of 2 sets of blocks should be ordered.
- Hardware for top and bottom cover is included.

DIMENSIONS (in Inches)				
CONFIG.	A	B	C	L
6 X 12	6	12	14.5	6.25
8 X 12	8	12	14.5	8.25
8 X 18	8	18	20.5	8.25
10 X 18	10	18	20.5	10.25
10 X 21	10	21	23.5	10.25
10 X 25	10	25	27.5	10.25
12 X 21	12	21	23.5	12.25
12 X 25	12	25	27.5	12.25
12 X 28	12	28	30.5	12.25
12 X 32	12	32	34.5	12.25
15 X 32	15	32	34.5	15.25
16 X 28	16	28	30.5	16.25
18 X 28	18	28	30.5	18.25
20 X 28	20	28	30.5	20.25

Enclosure sizes shown in bold are available as fast-track order.

SECTION PART NUMBER EXAMPLE:

SV . **LV** . **10** . **25** . **AL2** . **125** . **25**

- **SV**: Straight Vertical (SV)
- **LV**: Voltage Class
- **10**: Nominal Enclosure Height
- **25**: Nominal Enclosure Width
- **AL2**: Housing Material
- **125**: Length (in)
- **25**: Length (in, fractional)

Sample Naming Output:
Fitting, Straight Vert., LV, 10 x 25 Nom., 5052 AL Enclosure, 125.25 Length

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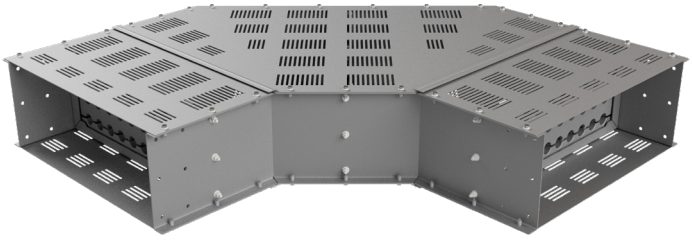
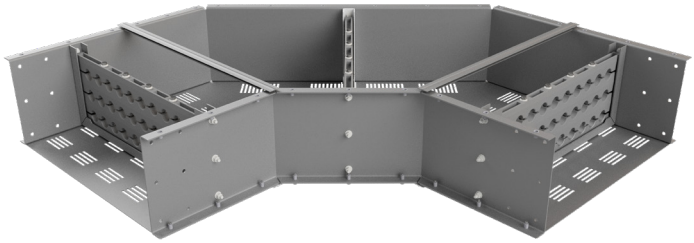
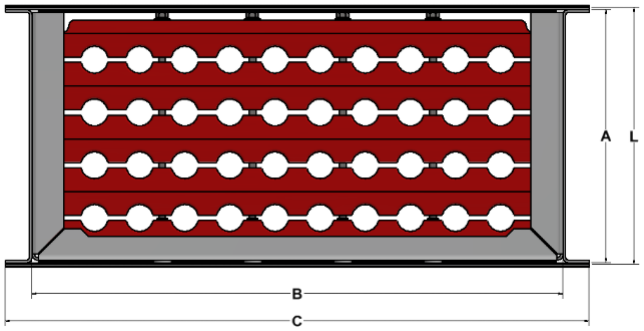
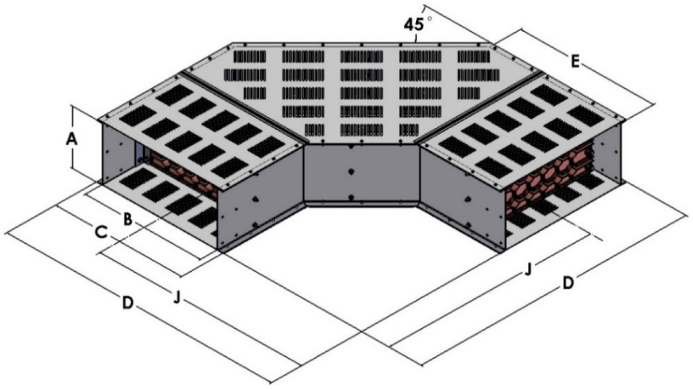
90° ELBOW SECTIONS
HORIZONTAL

PART CODE: (EH)









Elbow Sections of Cable Bus include top and bottom covers and fastening hardware.
Splicing kits are excluded, and can be found on Page 16.

Notes:

- Cable Support Blocks to be ordered separately.
- For a horizonal elbow, a total number of 3 sets of blocks should be ordered.
- Hardware for top and bottom cover is included.

DIMENSIONS (in Inches) - LOW VOLTAGE					
CONFIG. LV	A	B	C	J	L
6 X 12	6	12	14.5	32	6.25
8 X 12	8	12	14.5	32	8.25
8 X 18	8	18	20.5	32	8.25
10 X 18	10	18	20.5	32	10.25
10 X 21	10	21	23.5	36	10.25
10 X 25	10	25	27.5	38	10.25
12 X 21	12	21	23.5	36	12.25
12 X 25	12	25	27.5	38	12.25
12 X 32	12	32	34.5	40	12.25
15 X 32	15	32	34.5	40	15.25

DIMENSIONS (in Inches) - MEDIUM VOLTAGE					
CONFIG. MV	A	B	C	J	L
8 X 18	8	18	20.5	44	8.25
12 X 18	12	18	20.5	44	12.25
12 X 25	12	25	27.5	48	12.25
12 X 28	12	28	30.5	50	12.25
16 X 28	16	28	30.5	50	16.25
20 X 28	20	28	30.5	50	20.25

Enclosure sizes shown in bold are available as fast-track order.

SECTION PART NUMBER EXAMPLE:

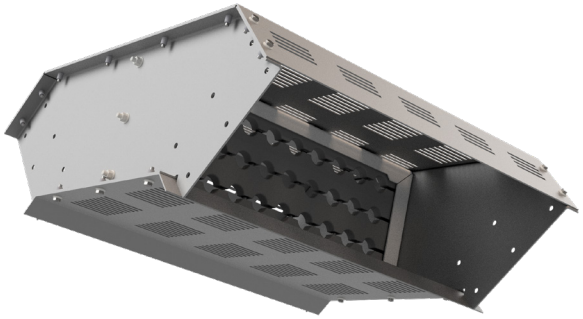
EH . **LV** . **10** . **25** . **AL2**

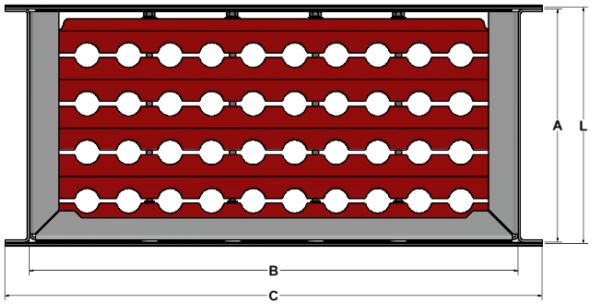
- **EH** — Horizontal Elbow Fitting (EH)
- **LV** — Voltage Class
- **10** — Nominal Enclosure Height
- **25** — Nominal Enclosure Width
- **AL2** — Housing Material

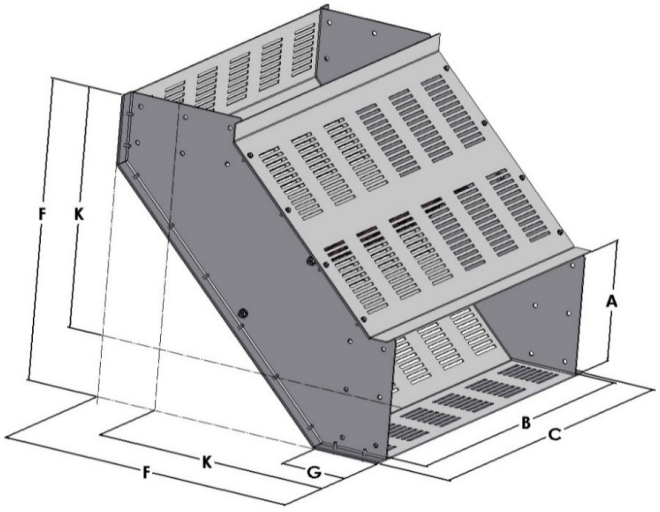
Sample Naming Output:
Fitting, Horz Elbow, LV, 10 x 25 Nom., 5052 AL Enclosure

90° ELBOW SECTIONS
VERTICAL TOP & BOTTOM

PART CODE TOP: (ET)
PART CODE BOTTOM: (EB)







Elbow Sections of Cable Bus include top and bottom covers and fastening hardware.
Splicing kits are excluded, and can be found on Page 16.

- LV tables cover <1000V applications
- MV tables cover up to 35,000V applications

Notes:

- Cable Support Blocks to be ordered separately.
- For a vertical elbow, a total number of 1 sets of blocks should be ordered.
- Hardware for top and bottom cover is included.

DIMENSIONS (in Inches) - LOW VOLTAGE					
CONFIG. LV	A	B	C	J	L
6 X 12	6	12	14.5	15	6.25
8 X 12	8	12	14.5	16	8.25
8 X 18	8	18	20.5	16	8.25
10 X 18	10	18	20.5	18	10.25
10 X 21	10	21	23.5	18	10.25
10 X 25	10	25	27.5	18	10.25
12 X 21	12	21	23.5	20	12.25
12 X 25	12	25	27.5	20	12.25
12 X 32	12	32	34.5	20	12.25
15 X 32	15	32	34.5	22	15.25

DIMENSIONS (in Inches) - MEDIUM VOLTAGE					
CONFIG. MV	A	B	C	J	L
8 X 18	8	18	20.5	24	8.25
12 X 18	12	18	20.5	26	12.25
12 X 25	12	25	27.5	26	12.25
12 X 28	12	28	30.5	26	12.25
16 X 28	16	28	30.5	28	16.25
20 X 28	20	28	30.5	30	20.25

Enclosure sizes shown in bold are available as fast-track order.

SECTION PART NUMBER EXAMPLE:

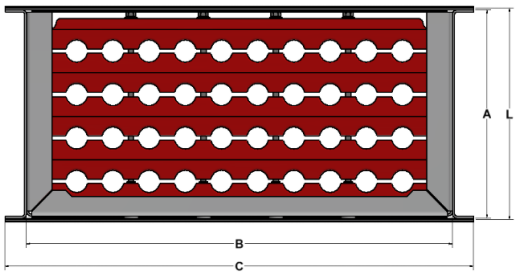
ET . **LV** . **10** . **25** . **AL2**

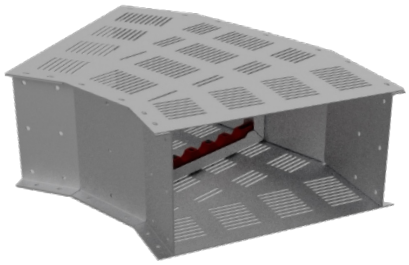
- **ET**: Vertical Elbow, TOP or BOTTOM Fitting (ET or EB)
- **LV**: Voltage Class
- **10**: Nominal Enclosure Height
- **25**: Nominal Enclosure Width
- **AL2**: Housing Material

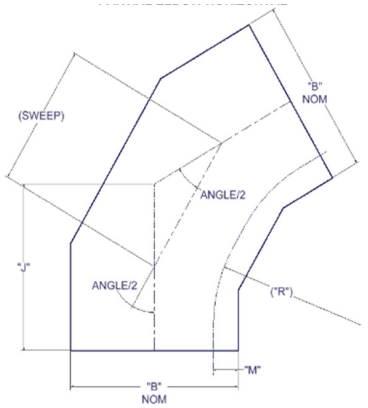
Sample Naming Output:
Fitting, Vert Elbow Top, LV, 10 x 25 Nom., 5052 AL Enclosure

30°, 45°, 60° ELBOW SECTIONS
HORIZONTAL

PART CODE: (PH)







Elbow Sections of Cable Bus include top and bottom covers and fastening hardware. Splicing kits are excluded, and can be found on Page 16.

- LV tables cover <1000V applications
- MV tables cover up to 35,000V applications

Notes:

- Cable Support Blocks to be ordered separately.
- For a horizontal elbow, a total number of 1 sets of blocks should be ordered.
- Hardware for top and bottom cover is included.

DIMENSIONS (in) - LOW VOLTAGE - 60 Degree

CONFIG. LV	A	B	C	J
6 X 12	6	12	14.5	17
8 X 12	8	12	14.5	17
8 X 18	8	18	20.5	17
10 X 18	10	18	20.5	17
10 X 21	10	21	23.5	19.75
10 X 25	10	25	27.5	20.75
12 X 21	12	21	23.5	19.75
12 X 25	12	25	27.5	20.75
12 X 32	12	32	34.5	22
15 X 32	15	32	34.5	22

DIMENSIONS (in) - LOW VOLTAGE - 45 Degree

CONFIG. LV	A	B	C	J
6 X 12	6	12	14.5	17
8 X 12	8	12	14.5	17
8 X 18	8	18	20.5	17
10 X 18	10	18	20.5	17
10 X 21	10	21	23.5	19.75
10 X 25	10	25	27.5	20.75
12 X 21	12	21	23.5	19.75
12 X 25	12	25	27.5	20.75
12 X 32	12	32	34.5	22
15 X 32	15	32	34.5	22

DIMENSIONS (in) - LOW VOLTAGE - 30 Degree

CONFIG. LV	A	B	C	J
6 X 12	6	12	14.5	17
8 X 12	8	12	14.5	17
8 X 18	8	18	20.5	17
10 X 18	10	18	20.5	17
10 X 21	10	21	23.5	19.75
10 X 25	10	25	27.5	20.75
12 X 21	12	21	23.5	19.75
12 X 25	12	25	27.5	20.75
12 X 32	12	32	34.5	22
15 X 32	15	32	34.5	22

DIMENSIONS (in) - MEDIUM VOLTAGE - 60 Degree

CONFIG. MV	A	B	C	J
8 X 18	8	18	20.5	24
12 X 18	12	18	20.5	24
12 X 25	12	25	27.5	26
12 X 28	12	28	30.5	27.5
16 X 28	16	28	30.5	27.5
20 X 28	20	28	30.5	27.5

DIMENSIONS (in) - MEDIUM VOLTAGE - 45 Degree

CONFIG. MV	A	B	C	J
8 X 18	8	18	20.5	18.5
12 X 18	12	18	20.5	18.5
12 X 25	12	25	27.5	20
12 X 28	12	28	30.5	21
16 X 28	16	28	30.5	21
20 X 28	20	28	30.5	21

DIMENSIONS (in) - MEDIUM VOLTAGE - 30 Degree

CONFIG. MV	A	B	C	J
8 X 18	8	18	20.5	13.5
12 X 18	12	18	20.5	13.5
12 X 25	12	25	27.5	14.5
12 X 28	12	28	30.5	14.5
16 X 28	16	28	30.5	14.5
20 X 28	20	28	30.5	14.5

Enclosure sizes shown in bold are available as fast-track order.

SECTION PART NUMBER EXAMPLE:

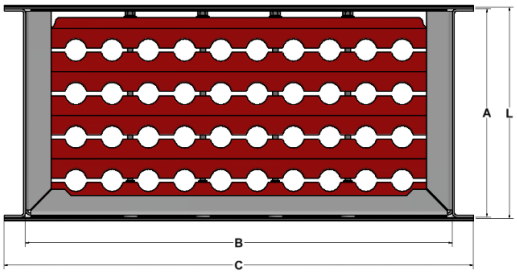
PH . **LV** . **10** . **25** . **AL2** . **D45**

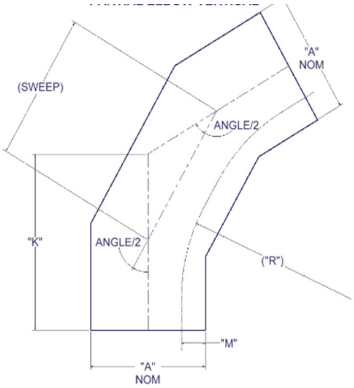
- **PH** — Horizontal Elbow Partial Fitting (PH)
- **LV** — Voltage Class
- **10** — Nominal Enclosure Height
- **25** — Nominal Enclosure Width
- **AL2** — Housing Material
- **D45** — Angle of Fitting

Sample Naming Output:
Fitting, Horz Elbow Partial, LV, 10 x 25 Nom., 5052 AL Enclosure, 45 Degree

30°, 45°, 60° ELBOW SECTIONS
VERTICAL - TOP AND BOTTOM

PART CODE TOP: (PT)
PART CODE BOTTOM: (PB)





Elbow Sections of Cable Bus include top and bottom covers and fastening hardware. Splicing kits are excluded, and can be found on Page 16.

- LV tables cover <1000V applications
- MV tables cover up to 35,000V applications

Notes:

- Cable Support Blocks to be ordered separately.
- For a vertical elbow, a total number of 1 sets of blocks should be ordered.
- Hardware for top and bottom cover is included.

DIMENSIONS (in) - LOW VOLTAGE - 60 Degree

CONFIG. LV	A	B	C	J
6 X 12	6	12	14.5	15.75
8 X 12	8	12	14.5	16.25
8 X 18	8	18	20.5	16.25
10 X 18	10	18	20.5	16.5
10 X 21	10	21	23.5	16.5
10 X 25	10	25	27.5	16.5
12 X 21	12	21	23.5	17
12 X 25	12	25	27.5	17
12 X 32	12	32	34.5	17
15 X 32	15	32	34.5	17.75

DIMENSIONS (in) - LOW VOLTAGE - 45 Degree

CONFIG. LV	A	B	C	J
6 X 12	6	12	14.5	12.5
8 X 12	8	12	14.5	13
8 X 18	8	18	20.5	13
10 X 18	10	18	20.5	13
10 X 21	10	21	23.5	13
10 X 25	10	25	27.5	13
12 X 21	12	21	23.5	13.5
12 X 25	12	25	27.5	13.5
12 X 32	12	32	34.5	13.5
15 X 32	15	32	34.5	14

DIMENSIONS (in) - LOW VOLTAGE - 30 Degree

CONFIG. LV	A	B	C	J
6 X 12	6	12	14.5	9.75
8 X 12	8	12	14.5	10
8 X 18	8	18	20.5	10
10 X 18	10	18	20.5	10
10 X 21	10	21	23.5	10
10 X 25	10	25	27.5	10
12 X 21	12	21	23.5	10.25
12 X 25	12	25	27.5	10.25
12 X 32	12	32	34.5	10.25
15 X 32	15	32	34.5	10.75

DIMENSIONS (in) - MEDIUM VOLTAGE - 60 Degree

CONFIG. MV	A	B	C	J
8 X 18	8	18	20.5	21
12 X 18	12	18	20.5	22
12 X 25	12	25	27.5	22
12 X 28	12	28	30.5	22
16 X 28	16	28	30.5	23.25
20 X 28	20	28	30.5	24.5

DIMENSIONS (in) - MEDIUM VOLTAGE - 45 Degree

CONFIG. MV	A	B	C	J
8 X 18	8	18	20.5	16.25
12 X 18	12	18	20.5	17
12 X 25	12	25	27.5	17
12 X 28	12	28	30.5	17
16 X 28	16	28	30.5	18
20 X 28	20	28	30.5	18.75

DIMENSIONS (in) - MEDIUM VOLTAGE - 30 Degree

CONFIG. MV	A	B	C	J
8 X 18	8	18	20.5	12
12 X 18	12	18	20.5	12.75
12 X 25	12	25	27.5	12.75
12 X 28	12	28	30.5	12.75
16 X 28	16	28	30.5	13.25
20 X 28	20	28	30.5	13.75

Enclosure sizes shown in bold are available as fast-track order.

SECTION PART NUMBER EXAMPLE:

PB . **LV** . **10** . **25** . **AL2** . **D45**

- **PB**: Vertical Elbow Top or Bottom Partial Fitting (PT or PB)
- **LV**: Voltage Class
- **10**: Nominal Enclosure Height
- **25**: Nominal Enclosure Width
- **AL2**: Housing Material
- **D45**: Angle of Fitting

Sample Naming Output:
Fitting, Vert Elbow Partial Bottom, LV, 10 x 25 Nom., 5052 AL Enclosure, 45 Degree

SUPPORT BLOCK

PART CODE: (SB)

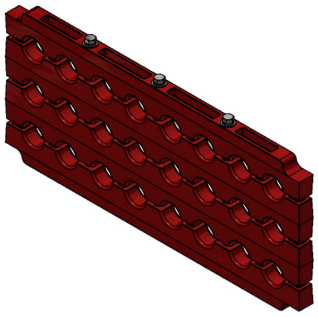
This Kit includes a set of molded blocks to hold cables in the selected configuration. Each kit will include bottom, middle blocks, top block, to completely secure within a U-shaped channel frame. Hardware to secure blocks is included.

This kit should be ordered based on the following guidelines:

- for straight horizontal sections:
  - one set of blocks per every 36in of run length
- for straight vertical sections:
  - one set of blocks per every 18in of run length
- for horizontal elbows (90 Degree and partial):
  - three sets of blocks per each elbow.
- for vertical elbows (90 Degree and partial):
  - one set of blocks per each elbow

For the following kits, blocks are included and should not be ordered separately:

- Enclosure Termination Kits (ETK)
- Environmental Seal Kit (EVK)
- Fire Rated Wall Penetration (FWK)



BLOCK CABLE RANGE	
Value	Code
0.75” -> 1.00”	A
1.00” -> 1.28”	B
1.28” -> 1.50”	C
1.50” -> 1.75”	D
1.75” -> 2.00”	E
2.00” -> 2.25”	F
2.25” -> 2.50”	G

DIMENSIONS (in) - LOW VOLTAGE				
CONFIG. LV	A (Height)	B (Width)	Cable Config.	OD Ranges
6 X 12	6	12	1 X 3	A,B
8 X 12	8	12	2 X 3	
8 X 18	8	18	2 X 6	
10 X 18	10	18	3 X 6	
10 X 21	10	21	3 X 8	
10 X 25	10	25	3 X 10	
12 X 21	12	21	4 X 8	
12 X 25	12	25	4 X 10	
12 X 32	12	32	4 X 13	
15 X 32	15	32	5 X 13	
18 X 32	18	32	6 X 13	

DIMENSIONS (in) - MEDIUM VOLTAGE				
CONFIG. MV	A (Height)	B (Width)	Cable Config.	OD Ranges
8 X 18	8	18	1 X 3	C, D, E, F
12 X 18	12	18	2 X 3	
12 X 25	12	25	2 X 5	
12 X 28	12	28	2 X 6	
16 X 28	16	28	3 X 6	
20 X 28	20	28	4 X 6	

Enclosure sizes shown in bold are available as fast-track order.

PART NUMBER EXAMPLE:

SB . **LV** . **10** . **25** . **B**

- **SB**: Support Block (SB)
- **LV**: Voltage Class
- **10**: Nominal Height
- **25**: Nominal Width
- **B**: Cable Diameter Range

Sample Naming Output:

Kit, Cable Support Block Set, LV1, 10 x 25 Nom., 3 x 10 Config., 1.00”-1.28” Cable OD

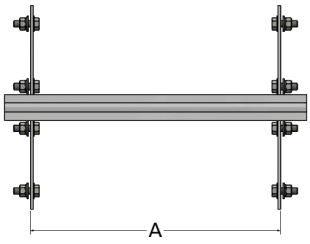
FIELD-ASSEMBLED KITS

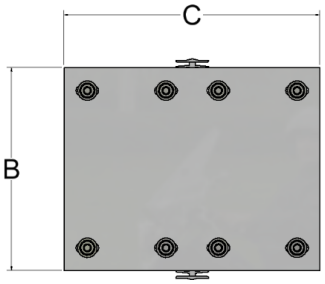
SPLICE KIT

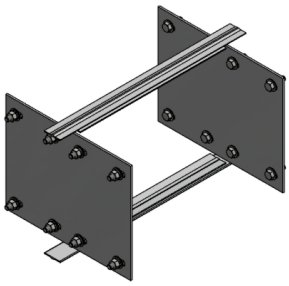
PART CODE: (SK)

Splice kits are used to connect bus sections to other sections or throats. These kits contain splice plates, hardware, and joiner strips. The splice kit is chosen based on the desired splice plate material, hardware material, and bus nominal cross section. The quantity of splice kits needed for a run is usually equal to the number of sections plus one.

Splices ensure structural continuity and electrical grounding through bolted connections using stainless steel hardware. Splice joints also accommodate minor field adjustments and linear expansion.







PART NUMBER EXAMPLE:

SK . 10 . 25 . AL2

- SK — Splice Kit (SK)
- 10 — Nominal Height
- 25 — Nominal Width
- AL2 — Material (AL Housing)

Sample Naming Output:
Kit, Section Splice, 10 x 25 Nom., 5052 AL Housing

DIMENSIONS (in inches)			
Config.	**A**	**B**	**C**
6 X 12	12	5.75	9.75
8 X 12	12	7.75	
8 X 18	18	7.75	
10 X 18	18	9.75	
10 X 21	21	9.75	
10 X 25	25	9.75	
12 X 21	21	11.75	
12 X 25	25	11.75	
12 X 28	28	11.75	
12 X 32	32	11.75	
15 X 32	32	14.75	
16 X 28	28	15.75	
18 X 28	28	17.75	
20 X 28	28	19.75	

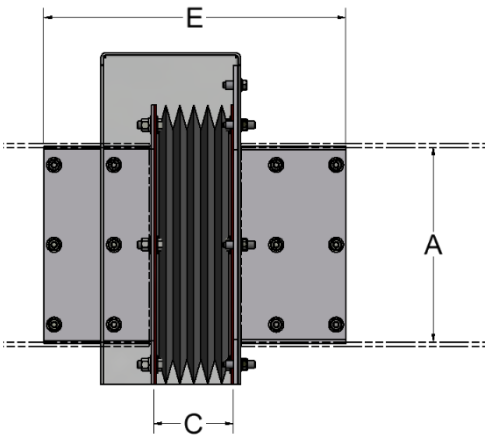
Enclosure sizes shown in bold are available as fast-track order.

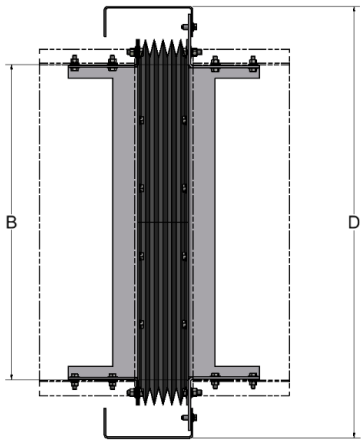
SEISMIC KIT (HORIZONAL)

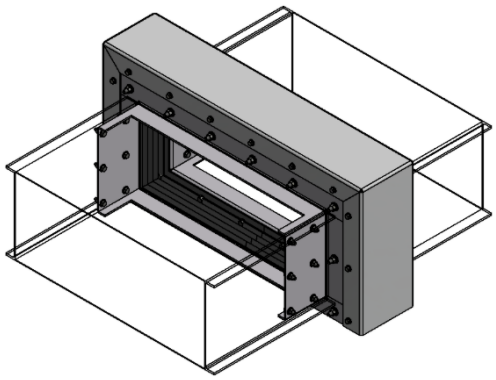
PART CODE: (HSK)

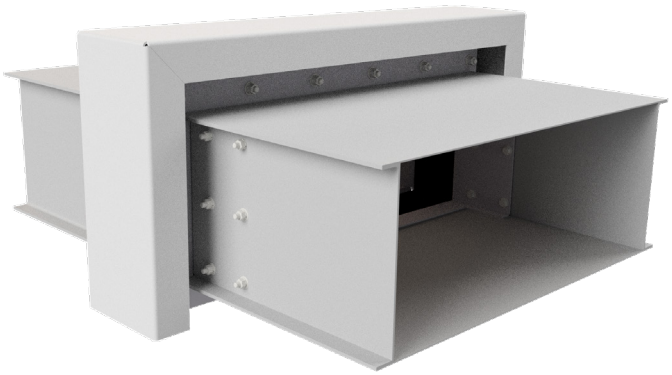
For installations in seismic zones, Powell's cable bus includes structurally reinforced support points, flexible coupling arrangements, and adjustable splice joints that can absorb movement without stress. These fittings ensure the system remains operational and safe during seismic events.

Seismic kits are used to join bus sections and provide adjustable length to account for seismic activity. The extendable bellows options are 6" or 12" in length and have an aluminum cover. The kit contains flanges, bellows, bellows cover, and hardware. The seismic kits are chosen based on the desired flange material, hardware material, bellows length, and bus nominal cross section.









PART NUMBER EXAMPLE:

HSK . 10 . 25 . AL2 . G06

- HSK — Seismic Fitting (HSK)
- 10 — Nominal Height
- 25 — Nominal Width
- AL2 — Material (AL Housing)
- G06 — Seismic Fitting Joint Depth (6" or 12")

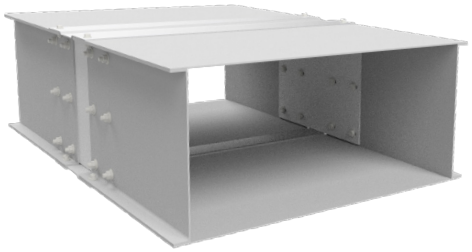
Sample Naming Output:
Kit, Seismic Fitting, 10 x 25 Nom., 5052 AL Housing, 6" Seismic Joint

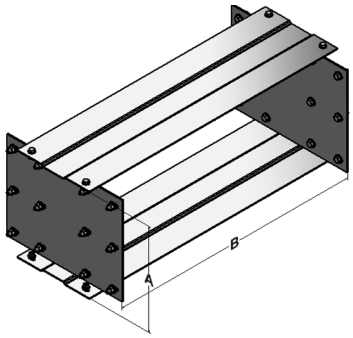
DIMENSIONS (in inches)					
Config.	A	B	C	D	E
6 X 12	6	12	4" OR 10"	21.25	15" OR 21"
8 X 12	8	12		21.25	
8 X 18	8	18		27.25	
10 X 18	10	18		27.25	
10 X 21	10	21		30.25	
10 X 25	10	25		34.25	
12 X 21	12	21		30.25	
12 X 25	12	25		34.25	
12 X 28	12	28		37.25	
12 X 32	12	32		41.25	
15 X 32	15	32		41.25	
16 X 28	16	28		37.25	
18 X 28	18	28		37.25	
20 X 28	20	28		37.25	

EXPANSION HOUSING KIT

PART CODE: (ESK)

Expansion housing kits are used to add 3" of bus length by extending the splice plate. Holes for cover hardware are field drilled into bus on site. The kit contains an expansion splice cover, splice plates, and hardware. The expansion housing kits are chosen based on the desired splice plate material, hardware material, and bus nominal cross section.





PART NUMBER EXAMPLE:

ESK . 10 . 25 . AL2

- ESK — Expansion Housing Kit (ESK)
- 10 — Nominal Height
- 25 — Nominal Width
- AL2 — Material (AL Housing)

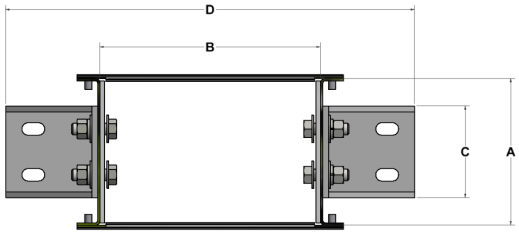
Sample Naming Output:
Kit, Expansion Housting, 10 x 25 Nom., 5052 AL Housing

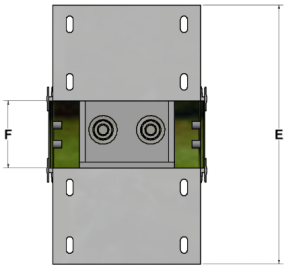
DIMENSIONS (in inches)		
Config.	A	B
6 X 12	6	12
8 X 12	8	12
8 X 18	8	18
10 X 18	10	18
10 X 21	10	21
10 X 25	10	25
10 X 28	10	28
12 X 21	12	21
12 X 25	12	25
12 X 32	12	32
14 X 28	14	28
15 X 32	15	32
18 X 28	18	28

KNEE BRACE SPLICE

PART CODE: (KBS)

This splice kit is needed when a vertical portion of bus is 8 feet or greater.
Kit includes knee brace brackets, hardware to attach brackets to bus enclosure, and backing plate.



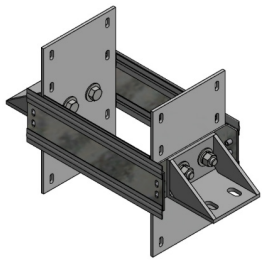


PART NUMBER EXAMPLE:

KBS . 10 . 25 . AL2

- KBS — Knee Brace Splice (KBS)
- 10 — Nominal Height
- 25 — Nominal Width
- AL2 — Material (AL Housing)

Sample Naming Output:
Kit, Knee Brace Splice, 10 x 25 Nom., 5052 AL Housing



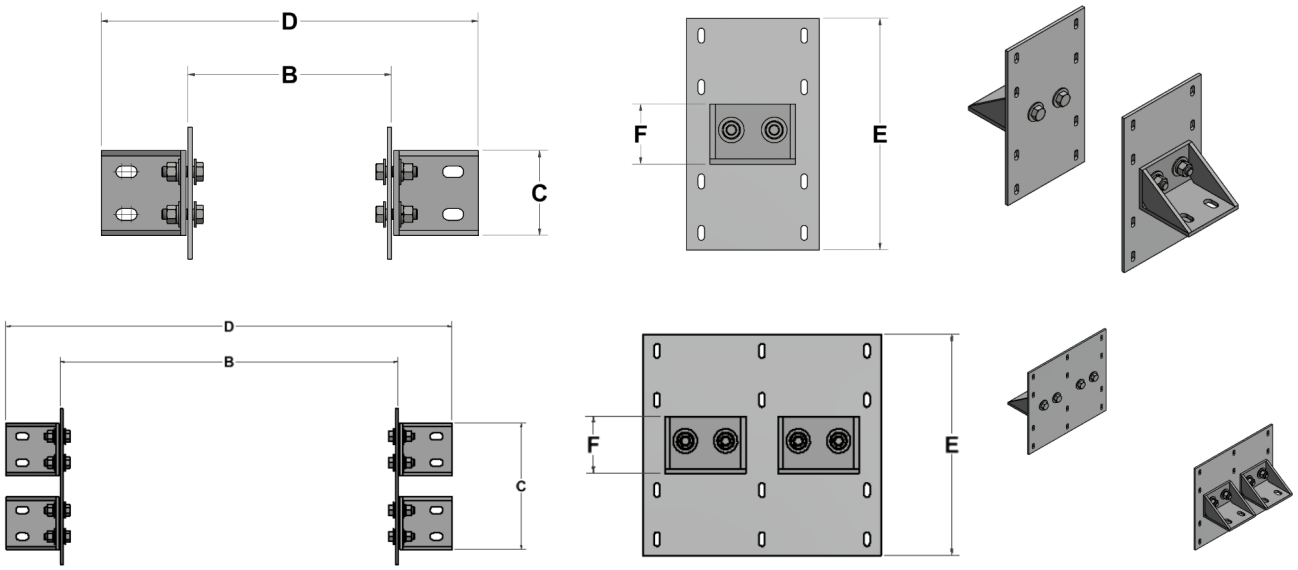
DIMENSIONS (in inches)						
Config.	A	B	C	D	E	F
6 X 12	6	12	5	22.25	13.5	3.5
8 X 12	8	12		22.25		
8 X 18	8	18		28.25		
10 X 18	10	18		28.25		
10 X 21	10	21		31.25		
10 X 25	10	25		35.25		
12 X 21	12	21		31.25		
12 X 25	12	25		35.25		
12 X 28	12	28		38.25		
12 X 32	12	32		42.25		
15 X 32	15	32		42.25		
16 X 28	16	28		38.25		
18 X 28	18	28		38.25		
20 X 28	20	28		38.25		

Enclosure sizes shown in bold are available as fast-track order.

KNEE BRACE KIT

PART CODE: (KB)

This splice kit is needed when a vertical portion of bus is 8 feet or greater.
Kit includes knee brace brackets, hardware to attach brackets to bus enclosure, and backing plate.



PART NUMBER EXAMPLE:

KB . 10 . 25 . AL2

- KB — Knee Brace Kit (KB)
- 10 — Nominal Height
- 25 — Nominal Width
- AL2 — Material (AL Housing)

Sample Naming Output:
Kit, Knee Brace Kit, 10 x 25 Nom., 5052 AL Housing

DIMENSIONS (in inches)

Config.	A	B	C	D	E	F
6 X 12	6	12	5	22.25	13.5	3.5
8 X 12	8	12		22.25		
8 X 18	8	18		28.25		
10 X 18	10	18		28.25		
10 X 21	10	21		31.25		
10 X 25	10	25		35.25		
12 X 21	12	21		31.25		
12 X 25	12	25		35.25		
12 X 28	12	28		38.25		
12 X 32	12	32		42.25		
15 X 32	15	32		42.25		
16 X 28	16	28	12	38.25		
18 X 28	18	28	12	38.25		
20 X 28	20	28	15	38.25		

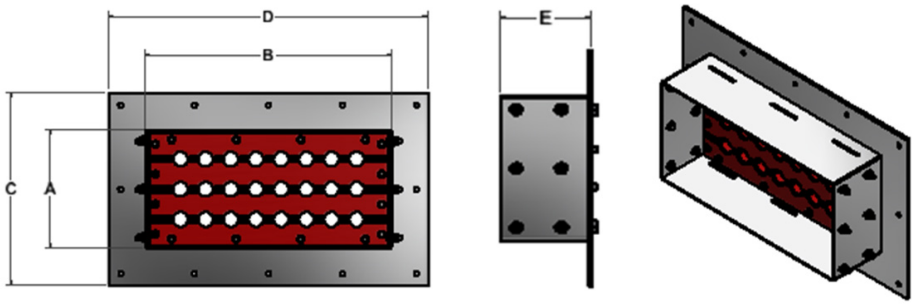
Enclosure sizes shown in bold are available as fast-track order.

ENCLOSURE TERMINATION KIT

HORIZONTAL PART CODE: (ETH)
VERTICAL PART CODE: (ETV)

The Enclosure Termination Kit is used for terminating to and from equipment at the start or end of the cable bus run. The kit includes flange, hardware, and cable sealing blocks.

This kit is used for indoor and outdoor connections to non-ventilated equipment.



PART NUMBER EXAMPLE:

ETV . LV . 10 . 25 . AL2 . B

- ETV — Enclosure Termination Kit (ETV or ETH)
- LV — Voltage Class
- 10 — Nominal Height
- 25 — Nominal Width
- AL2 — Housing Material
- B — Cable Diameter Range

Sample Naming Output:
Kit, Enclosure Termination Vertical, Low Voltage, 10 x 25 Nom., 5052 AL Housing

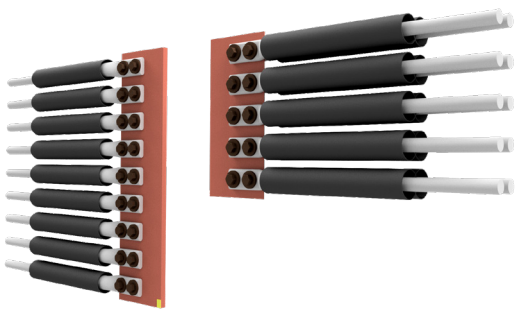
DIMENSIONS (in inches)					
Config.	A	B	C	D	E
6 X 12	6	12	10	16	5.5
8 X 12	8	12	12	16	
8 X 18	8	18	12	22	
10 X 18	10	18	14	22	
10 X 21	10	21	14	25	
10 X 25	10	25	14	29	
12 X 21	12	21	16	25	
12 X 25	12	25	16	29	
12 X 28	12	28	16	32	
12 X 32	12	32	16	36	
15 X 32	15	32	19	36	
16 X 28	16	28	20	32	
18 X 28	18	28	22	32	
20 X 28	20	28	24	32	

Enclosure sizes shown in bold are available as fast-track order.

CABLE TERMINATION KIT

PART CODE: (CTK)

Cable terminations to equipment (e.g., switchgear or transformers) include long barrel compression lugs, insulation with EPR and PVC tape, and stress cones for shielded cables. Proper phasing, cable tagging, and lug insulation are mandatory. Shield grounds and mechanical lugs are provided based on voltage class and insulation type.



DIMENSIONS (in) - LOW VOLTAGE 1			
CONFIG. LV1	Conductor Size	Lug QTYs	Cable Config.
CU	500	Up to 56 Total Conductors	GR5 Steel, 300 Series SS, Silicone-Bronze
	600		
	750		
	1000		
AL	500	Up to 60 Total Conductors	
	600		
	750		
	1000		

DIMENSIONS (in) - MEDIUM VOLTAGE 1			
CONFIG. MV1	Conductor Size	Lug QTYs	Cable Config.
AL	500	Up to 24 Total Conductors	GR5 Steel, 300 Series SS, Silicone-Bronze
	750		
CU	500		
	750		
	1000		

DIMENSIONS (in) - MEDIUM VOLTAGE 2			
CONFIG. MV2	Conductor Size	Lug QTYs	Cable Config.
AL	500	Up to 24 Total Conductors	GR5 Steel, 300 Series SS, Silicone-Bronze
	750		
CU	500		
	750		
	1000		

DIMENSIONS (in) - MEDIUM VOLTAGE 2			
CONFIG. MV2	Conductor Size	Lug QTYs	Cable Config.
AL	500	Up to 24 Total Conductors	GR5 Steel, 300 Series SS, Silicone-Bronze
	750		
CU	500		
	750		
	1000		

PART NUMBER EXAMPLE:

CTK . LV . 0500 . 06 . AL . BRZ

- CTK: Cable Termination (CTK)
- LV: Voltage Class
- 0500: Cable Conductor Size
- 06: Quantity of Lugs
- AL: Cable Conductor Material
- BRZ: Conductor Hardware Material

Sample Naming Output:

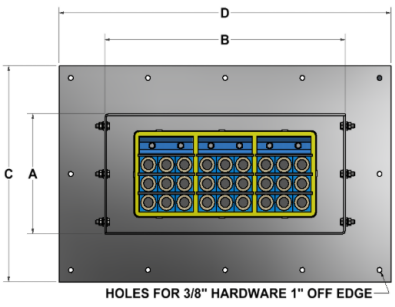
Kit, Cable Termination, LV1, 500 MCM Aluminum Cable, 6 Cables Total, Si-Brz Hardware

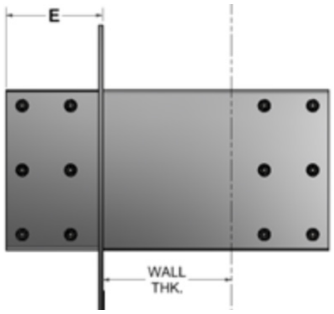
POWELL

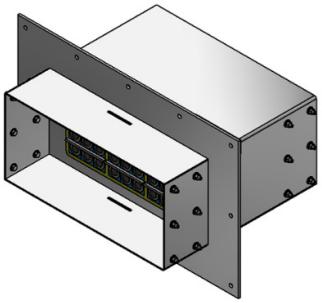
MCT WALL PENETARTION

PART CODE: (EWK)

As an alternative to other penetration methods offered by Powell, Multi Cable Transit (MCT) penetration kits are also available for projects that require additional protection from dust, fire, and blast ingress through the cable entry. MCT penetration kits are available for all ratings of Powell cable bus.







DIMENSIONS (in inches)							
Config.	A	B	C	D	E	F (Height)	G (Width)
6 X 12	6	12	16	22	5.5	8	14
8 X 12	8	12	18	22		10	14
8 X 18	8	18	18	28		10	20
10 X 18	10	18	20	28		12	20
10 X 21	10	21	20	31		12	23
10 X 25	10	25	20	35		12	27
12 X 21	12	21	22	31		14	23
12 X 25	12	25	22	35		14	27
12 X 28	12	28	22	38		14	30
12 X 32	12	32	22	42		14	34
15 X 32	15	32	25	42		17	34
16 X 28	16	28	26	38		18	30
18 X 28	18	28	28	38		20	30
20 X 28	20	28	30	38		22	30

PART NUMBER EXAMPLE:

EWK . LV . 10 . 25 . AL2 . W06

- EWK — MCT Wall Penetration (EWK)
- LV — Voltage Class
- 10 — Nominal Height
- 25 — Nominal Width
- AL2 — Housing Material
- W06 — Max Wall Thickness

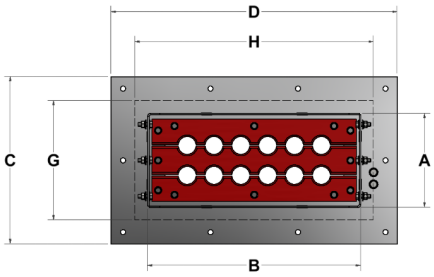
Sample Naming Output:

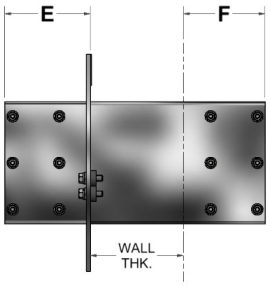
Kit, MCT Wall Penetration, LV, 10 x 25 Nom., 5052 AL Housing, 6" Wall Thickness

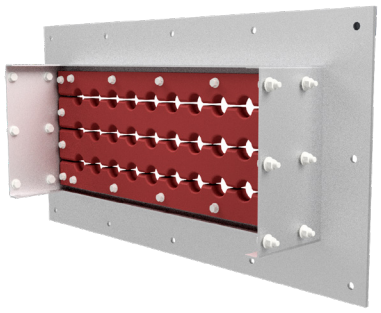
ENVIRONMENTAL SEAL PENETRATION

PART CODE: (EVK)

Powell provides custom vapor and fire barrier seal assemblies at equipment termination points to prevent ingress of moisture or contaminants. The kit includes a fully welded aluminum flange with, molded cable support blocks split seal plates, caulking, and/or urethane compounds for a complete and durable seal.







DIMENSIONS (in inches)						WALL CUTOUT	
Config.	A	B	C	D	E	F (Height)	G (Width)
6 X 12	6	12	16	22	5.5	8	14
8 X 12	8	12	18	22		10	14
8 X 18	8	18	18	28		10	20
10 X 18	10	18	20	28		12	20
10 X 21	10	21	20	31		12	23
10 X 25	10	25	20	35		12	27
12 X 21	12	21	22	31		14	23
12 X 25	12	25	22	35		14	27
12 X 28	12	28	22	38		14	30
12 X 32	12	32	22	42		14	34
15 X 32	15	32	25	42		17	34
16 X 28	16	28	26	38		18	30
18 X 28	18	28	28	38		20	30
20 X 28	20	28	30	38		22	30

Enclosure sizes shown in bold are available as fast-track order.

PART NUMBER EXAMPLE:

EVK . **LV** . **10** . **25** . **AL2** . **B** . **W06**

- **EVK** — Environmental Seal Penetration (EVK)
- **LV** — Voltage Class
- **10** — Nominal Height
- **25** — Nominal Width
- **AL2** — Housing Material
- **B** — Cable Diameter Range
- **W06** — Max Wall Thickness

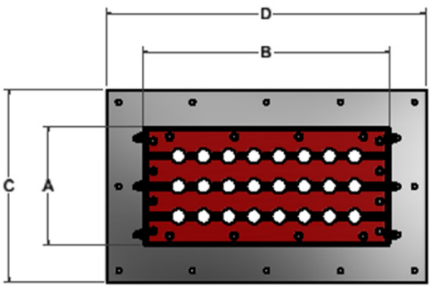
Sample Naming Output:

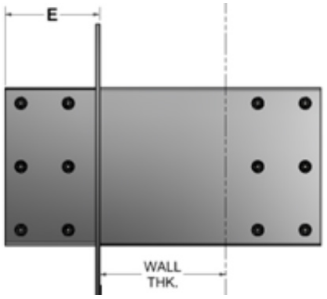
Kit, Environmental Seal Penetration, LV, 10 x 25 Nom., 5052 AL Housing, 6" Wall Thickness

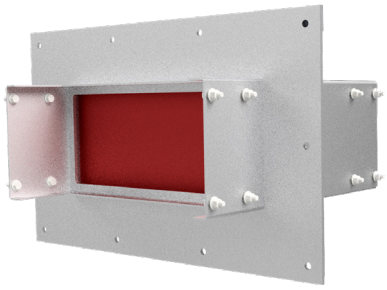
FIRE RATED WALL PENETRATION

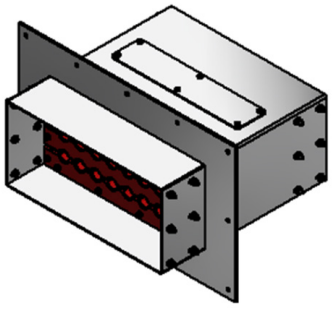
PART CODE: (FWK)

Fire stop barriers are used at wall or floor penetrations where fire resistance is required. Powell provides ½, 1, 2, or 3-hour rated assemblies using tested Fire Barrier Mortar and seal plates. These are engineered to maintain fire integrity while allowing cable routing. Horizontal and vertical configurations differ in plate placement and mortar depth.









DIMENSIONS (in inches)						WALL CUTOUT	
Config.	A	B	C	D	E	F (Height)	G (Width)
6 X 12	6	12	16	22	5.5	8	14
8 X 12	8	12	18	22		10	14
8 X 18	8	18	18	28		10	20
10 X 18	10	18	20	28		12	20
10 X 21	10	21	20	31		12	23
10 X 25	10	25	20	35		12	27
12 X 21	12	21	22	31		14	23
12 X 25	12	25	22	35		14	27
12 X 28	12	28	22	38		14	30
12 X 32	12	32	22	42		14	34
15 X 32	15	32	25	42		17	34
16 X 28	16	28	26	38		18	30
18 X 28	18	28	28	38		20	30
20 X 28	20	28	30	38		22	30

Enclosure sizes shown in bold are available as fast-track order.

PART NUMBER EXAMPLE:

FVK . **LV** . **10** . **25** . **AL2** . **B** . **W06**

- **FVK** — Fire Rated Wall Penetration (FWK)
- **LV** — Voltage Class
- **10** — Nominal Height
- **25** — Nominal Width
- **AL2** — Housing Material
- **B** — Cable Diameter Range
- **W06** — Max Wall Thickness

Sample Naming Output:

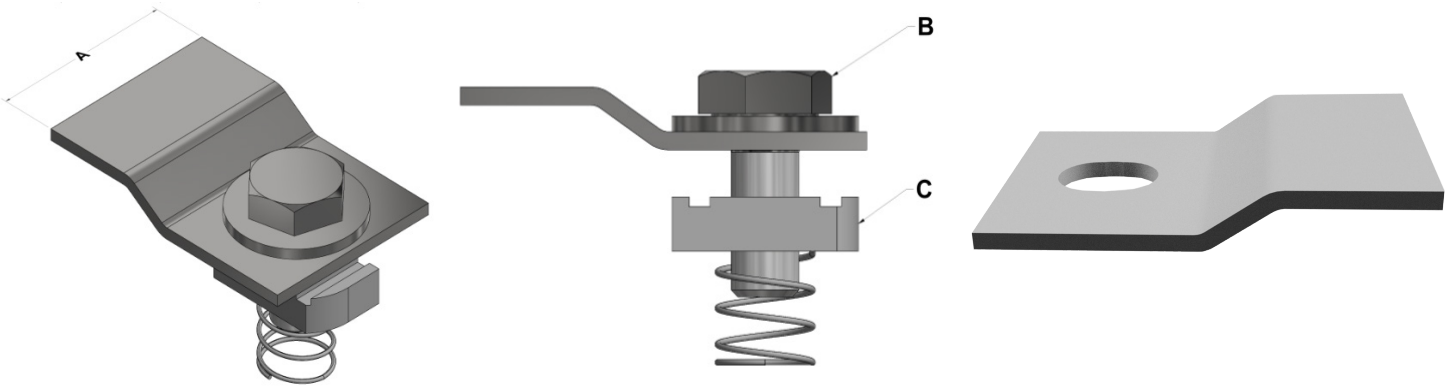
Kit, Fire Rated Wall Penetration, LV, 10 x 25 Nom., 5052 AL Housing, 6" Wall Thickness

POWELL

MISC - ENCLOSURE HOLD DOWN CLIP

PART CODE: (HDK)

Hold down clips are heavy-duty mechanical fixtures used to secure the cable bus enclosure to its support steel framework. They are essential in maintaining alignment and preventing displacement due to mechanical stress, short circuit forces, or seismic activity. The clips are bolted to the side of the enclosure base and into structural members, with installation guidelines and torque values provided to ensure reliable attachment (please refer to IB for instructions).



DIMENSIONS (in inches)				
Hardware Code	A	B	C	Plating
EG	2	1/2"-13	1/2"-13	Electro-Galv.
HG	2	1/2"-13	1/2"-13	Hot-Dipped Galv.

PART NUMBER EXAMPLE:

HDK . EG

HDK: Enclosure Hold Down Clip (HDK)

EG: Hardware Galv. Type

Sample Naming Output:
Kit, Enclosure Hold Down Clip, 1/2"-13 x1.25",
Cahnnel Nut w/ Springs (1-5/8" Series), Electro Galv.

MISC - BONDING CLAMPS

PART CODE: (SEE INDEX)

Bonding and grounding of the cable shields and enclosure are critical to system safety. Powell's standard ground cable routing is outside the enclosure; however, ground cables may be routed internal to the enclosure in certain configurations. These ensure that fault currents can safely return to ground. Powell uses mechanical grounding hardware along the length of the cable bus system, that hardware can be UL 467 or 486(A)/(B) listed for all 600VAC class designs, when specified.

The table below lists approved third party manufactured clamps for use in Powell Cable Bus. Bonding and grounding clamps are not included in the system and may be purchased separately.

DIMENSIONS (in inches)				
Part Number	Description	Manufacturer	Cable Range	UL File
BGBL250	Aluminum Lay-In Lug, 250 kcmil-#6, 7/16" Stud, Tin Plated (CU/AL rated)	Burndy	#6-250kcmil	486A-B
GBM34	GBM34, Mechanical Grounding Connector, Cable to Bar Mechanical Grounding Connector, Cable to 1/4" Thick Bar, 300 kcmil - 500 kcmil, 1/2" Stud.	Burndy	300-500kcmil	467
GBM34W	Tin-Plated GBM34, Mechanical Grounding Connector, Cable to Bar Mechanical Grounding Connector, Cable to 1/4" Thick Bar, 300 kcmil - 500 kcmil, 1/2" Stud.	Burndy	300-500kcmil	467
GBM39	GBM39, Mechanical Grounding Connector, Cable to Bar Mechanical Grounding Connector, Cable to 1/4" Thick Bar, 550 kcmil - 750 kcmil, 5/8" Stud.	Burndy	550-750kcmil	467
GBM39W	Tin-Plated GBM39, Mechanical Grounding Connector, Cable to Bar Mechanical Grounding Connector, Cable to 1/4" Thick Bar, 550 kcmil - 750 kcmil, 5/8" Stud.	Burndy	550-750kcmil	467
GBM44	GBM44, Mechanical Grounding Connector, Cable to Bar Mechanical Grounding Connector, Cable to 1/4" Thick Bar, 800 kcmil - 1000 kcmil, 5/8" Stud.	Burndy	800-1000kcmil	467

QUALITY ASSURANCE

Powell has a strong commitment to protect people, the environment, and company resources while providing our customized and engineered solutions in a sustainable manner. This approach delivers quality for our customers, protects the health of our employees, increases shareholder value and supports the communities we serve.

Powered by Safety is reflected in the attention to quality of all of Powell's product, including cable bus. Our US and Canada based facilities support this product line with domestic manufacturing and supply chain, supporting local communities and economies. Our facilities are certified per ISO 9001 and undergo several audits, to maintain and improve our quality management system.

DESIGN STANDARDS		
Category	**Standard/Code**	**Description/Application**
Design Standards	ANSI/IEEE C37.23	Governs construction, testing, and performance of metal-enclosed bus system.
	NEMA 15000	Covers construction, testing, and performance of metal cable bus systems.
	NEC (NFPA 70), Article 370	U.S. National Electrical Code section for cable bus installations.
	NEC Articles 110 & 310	Used for conductor ampacity calculations in "free-air" installations.
Product Certifications	UL / CSA Listings (for cables)	Phase conductors must be UL or CSA certified
ETL Listed	CSA/ANSI C22.2 NO. 273:19	Covers a Complete Cable Bus System
Test Approvals	ANSI/IEEE C37.23 – Design Test Suite:	Powell may perform or submit test data for:
	– Temperature Rise Test	Verifies thermal performance at rated current
	– Insulation Withstand Test	Tests insulation resistance under high voltage conditions
	– Impulse Test	Assesses equipment's ability to withstand surges
	– Power Frequency Withstand Test	Tests insulation at 60 Hz power frequency
	– Momentary Withstand (Short Circuit) Current Test	Ensures the system can survive short circuit forces without damage
	– Flame Retardance (Insulation Materials)	Ensures compliance with flammability and fire protection standards
Installation-Related Approvals	DC Hi-Pot Testing (Field Acceptance)	Conducted at 75% of factory voltage, per cable manufacturer's guidelines
	AC Hi-Pot Testing (Optional)	Field power frequency withstand test at 75% of factory level
	Fire Barrier Ratings	2 or 3 hour wall/floor fire barrier assemblies as standard
	Vapor Barrier Testing	Ensures moisture and contaminant isolation at terminations
Additional Compliance	IEEE, NEC, and Cable Manufacturer Instructions	Followed for grounding, phasing, insulation, interleaving, and termination integrity
Grounding and Bonding of Equipment	ANSI/UL 467	Covers the requirements for Grounding and Bonding of Equipment and hold down clamps for ground conductors

RELY ON THE EXPERTS FOR INSTALLATION AND SUPPORT SERVICES

At Powell, we provide engineering services and field services to help you though the process of installation and commissioning. Powell Global Service is available to support the post shipment of cable bus through:

- Installation Training,
- On-site Advisory for Mechanical and Electrical Fit Up,
- Logistics and Schedule Management,
- Pre-Energization,
- Commissioning Testing Procedures (LV and MV),
- Site Condition 3D Scanning

A COMPREHENSIVE PLAN FOR REPLACEMENT

Aging power distribution circuits can be repaired or replaced and upgraded with new cable bus systems that offer enhanced performance and safety. The replacement plan can accommodate complete system replacement or replacement of individual parts. Powell is also able to provide a range of specialty and custom-fit parts to meet the unique needs of each facility.

APPENDIX – ADDITIONAL TABLES

LV – 40C Ambient (Compliant to NEC 110.14) 4-Wire Configurations

COPPER CONDUCTOR CU								
		8 x 18	10 x 18	10 x 21	12 x 21	12 x 25	12 x 32	15 x 32
75C, 4-Wire	800A	3/500 MCM						
	1200A	3/750 MCM	4/500 MCM					
	1600A		4/750 MCM	5/500 MCM				
	2000A			6/500 MCM 5/750 MCM				
	2500A				8/500 MCM 7/600 MCM			
	3000A				8/600 MCM	9/500 MCM		
	3500A					10/600 MCM 9/750 MCM		
	4000A					10/750 MCM 9/1000 MCM	11/600 MCM	
	5000A						12/750 MCM 11/1000 MCM	
	6000A							14/750 MCM

ALUMINUM CONDUCTOR AL								
		10 x 18	10 x 21	10 x 25	12 x 21	12 x 25	12 x 32	15 x 32
75C, 4-Wire	800A	3/500 MCM						
	1200A	4/600 MCM	5/500 MCM					
	1600A		6/500 MCM 5/750 MCM					
	2000A		6/750 MCM	7/600 MCM				
	2500A				8/750 MCM	9/500 MCM		
	3000A					10/600 MCM 9/750 MCM		
	3500A					10/750 MCM 9/1000 MCM		
	4000A					10/1000 MCM	13/600 MCM 12/750 MCM	
	5000A						13/1000 MCM	15/750 MCM
	6000A							15/1000 MCM

Configurations shown are based on a 40°C ambient condition. Enclosure sizes shown in bold are available as fast-track order.
For standard configurations based on other ambient conditions, please contact you local Powell Sales representative

APPENDIX - ADDITIONAL CODE TABLES

LV - 40C Ambient 3-Wire Configurations

COPPER CONDUCTOR CU								
		6 x 12	8 x 12	8 x 18	10 x 18	10 x 21	10 x 25	12 x 21
90C, 3-Wire	800A	1/750 MCM						
	1200A		2/500 MCM					
	1600A		2/750 MCM					
	2000A			4/500 MCM 3/750 MCM				
	2500A			4/500 MCM				
	3000A			4/750 MCM	5/600 MCM			
	3500A				5/600 MCM 5/750 MCM			
	4000A				6/750 MCM	7/600 MCM		
	5000A					8/750 MCM	9/600 MCM	
	6000A						9/750 MCM	

ALUMINUM CONDUCTOR AL						
		8 x 12	8 x 18	10 x 18	10 x 21	10 x 25
90C, 3-Wire	800A	2/500 MCM				
	1200A	2/750 MCM				
	1600A	3/600 MCM				
	2000A		4/600 MCM			
	2500A		4/750 MCM	5/600 MCM		
	3000A			5/750 MCM 6/600 MCM		
	3500A			6/750 MCM	7/600 MCM	
	4000A			6/1000 MCM	7/750 MCM	
	5000A				7/1000 MCM 8/750 MCM	
	6000A					10/750 MCM

Configurations shown are based on a 40°C ambient condition. Enclosure sizes shown in bold are available as fast-track order.
For standard configurations based on other ambient conditions, please contact you local Powell Sales representative

APPENDIX - ADDITIONAL CODE TABLES

LV - 40C Ambient 4-Wire Configurations

COPPER CONDUCTOR CU								
		8 x 12	8 x 18	10 x 18	10 x 21	10 x 25	12 x 21	12 x 25
90C, 4-Wire	800A	1/750 MCM						
	1200A		2/500 MCM					
	1600A		2/750 MCM					
	2000A		3/750 MCM	4/500 MCM				
	2500A			4/500 MCM				
	3000A			4/750 MCM	5/600 MCM			
	3500A				5/600 MCM 5/750 MCM			
	4000A				6/750 MCM	7/600 MCM		
	5000A						8/750 MCM	9/600 MCM
	6000A							9/750 MCM

ALUMINUM CONDUCTOR AL						
		8 x 18	10 x 18	10 x 21	10 x 25	12 x 25
90C, 4-Wire	800A	2/500 MCM				
	1200A	2/750 MCM				
	1600A	3/600 MCM				
	2000A		4/600 MCM			
	2500A		4/750 MCM	5/600 MCM		
	3000A			5/750 MCM 6/600 MCM		
	3500A			6/750 MCM	7/600 MCM	
	4000A			6/1000 MCM	7/750 MCM	
	5000A				7/1000 MCM	8/750 MCM
	6000A					10/750 MCM

Configurations shown are based on a 40°C ambient condition. Enclosure sizes shown in bold are available as fast-track order.
For standard configurations based on other ambient conditions, please contact you local Powell Sales representative

APPENDIX - ADDITIONAL CODE TABLES

MV - 40C Ambient (Compliant to NEC 110.40) 3-Wire Configurations

COPPER CONDUCTOR CU								
		8 x 18	12 x 18	12 x 25	12 x 28	16 x 28	20 x 28	15 x 32
90C, 3-Wire	800A	1/750 MCM						
	1200A		2/500 MCM					
	1600A		2/750 MCM					
	2000A			3/500 MCM				
	2500A				4/500 MCM			
	3000A				4/750 MCM			
	3500A					5/750 MCM		
	4000A					6/750 MCM		
	5000A						7/750 MCM	
	6000A						8/750 MCM	14/750 MCM

ALUMINUM CONDUCTOR AL								
		8 x 18	12 x 18	12 x 25	12 x 28	16 x 28	20 x 28	15 x 32
90C, 3-Wire	800A	2/500 MCM						
	1200A		2/750 MCM					
	1600A			3/750 MCM				
	2000A			3/750 MCM				
	2500A				4/750 MCM			
	3000A					5/750 MCM		
	3500A					6/750 MCM		
	4000A						7/750 MCM	
	5000A						8/1000 MCM	15/750 MCM
	6000A	See Sales Representitive						

Configurations shown are based on a 40°C ambient condition. Enclosure sizes shown in bold are available as fast-track order.
For standard configurations based on other ambient conditions, please contact you local Powell Sales representative

POWELL

Solving your toughest problems.

Powell Corporate Headquarters
8550 Mosley Road
Houston, Texas 77075

Email: info@powellind.com
Phone: 713.944.6900
Fax: 713.947.4453

For Aftermarket Parts:
parts@powellind.com

www.powellind.com