PP180 Powerpole® Plus
Connector

Powerpole® connectors provide cost effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance. Powerpoles are stackable and color-coded for easy customization into multipole blocks.

The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous, AC or DC operation. With the addition of the extended range contacts, the PP Plus Connector now accepts a 3/0 wire size, increasing the amperage using the same robust housing. Wire sizes range from 3/0 to #10 AWG (85.0 to 5.3 mm²).

FEATURES

• Flat Wiping Contact System
Minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection

• Colored Modular Housings
Provides visual identification of proper mating connector

• Molded-in Dovetails
Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations



PRODUCT SPECIFICATIONS

Connector Model	PP180	Connector Model	PP180
Current Rating (Amperes)*	310*	Life a. No Load (mating cycles) b. Under Load (Hot Plug 250 mating cycles @ 120V)	 10,000 75A
Voltage Ratings (AC/DC)**	600		
Contact Barrel Wire Size (AWG) (mm²)	3/0 to #10 85.0 to 5.3	Aerage Connection/Disconnect (lbf) (N)	20 89
Maximum Wire Insulation Diameter (inches) (mm)	0.900 22.86	Operating Temperature (°C)*** (°F)	-20° to 105° -4° to 221°
Average Contact Resistance* (micro-ohms)	100	Flammability Rating of Housing Material	UL94 V-0
Dielectric Withstanding Voltage (AC) Test Voltage (Volts AC/DC)	2,200	RoHS COMPLIANT APP	
Contact Retention Force (lbf) (N)	170 756		

** UL Rated for 65°C largest wire or cable size*
*** Both AC & DC Voltage*
**** Contact factory for higher temperature rated connectors*

ORDERING INFORMATION

Housing & 180 amp Contact

Part Number	Housing Color	Wire AWG	Wire sq. mm
1380	Blue	1/0	53.5
1380G1	Black	1/0	53.5
1380G2	White	1/0	53.5
1380G3	Red	1/0	53.5
1380G4	Green	1/0	53.5

180 amp Contacts

Part Number	Description	Wire AWG	Wire sq. mm
1347	Individual	#1	42.4
1348*	Individual	#6	13.3
1382	Individual	1/0	53.5
1383	Individual	#2	33.6
1384	Individual	#4	21.2
180BBS	Bus bar contact	NA	NA
1328G1	Extended range	2/0	67.4
1328G2	Extended range	3/0	85.0

** thin wall contact*
Note: For additional colors please contact customer service

Housings Only

Part Number	Description
1381	Blue housing
1381G1	Black housing
1381G2	White housing
1381G3	Red housing
1381G4	Green housing

Bushings

Part Number	Description	Wire AWG	Wire sq. mm
5648	Use with 1382	1/0 to #10	53.5/5.1
5663	Use with 1382	1/0 to #6	53.5/13.3
5687	Use with 1382	1/0 to #1	53.5/42.4
5690	Use with 1382	1/0 to #2	53.5/33.6
5693	Use with 1382	1/0 to #4	53.5/21.2

Accessories

Part Number	Description
110G18	Retaining Pins, 1 high block of connectors
110G20	Retaining Pins, 2 high block of connectors
10G56	Keps nut for use with Bus bar contact
1465G1	2 & 4 pole mounting clamp set
1465G2	3 & 6 pole mounting clamp set

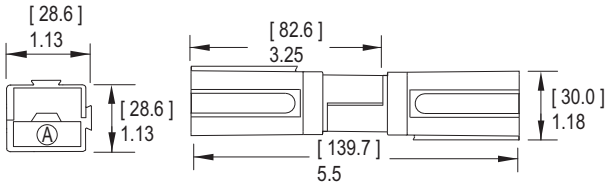
Tooling

Part Number	Description
1368	Hydraulic tool
1387G1	Pneumatic tool, #10 to 1/0
1388G3	- die for #10 to 1/0
1388G5	- die for #4 (1382 contact)
1303G4	- die for 2/0 (1328G1)
1303G12	- die for 3/0 (1328G2)
1389G3	- locator for #10 to 1/0
1389G5	- locator for #4 (1382 contact)
1304G32	- locator for 2/0 to 3/0

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DIMENSIONS

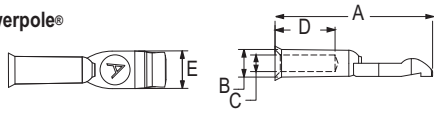
Housing



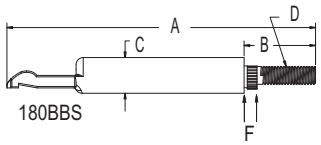
Contacts

Part	- A -		- B -		- C -		- D -		- E -		- F -	
Number	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
1347	59.8	2.35	13.0	0.51	9.9	0.39	26.4	1.04	12.7	0.50	N/A	N/A
1348	53.3	2.10	9.3	0.37	5.6	0.22	20.3	0.80	12.7	0.50	N/A	N/A
1382	59.6	2.35	13.1	0.52	11.2	0.44	27.2	1.07	12.7	0.50	N/A	N/A
1383	59.7	2.35	13.2	0.52	N/A	N/A	N/A	N/A	12.7	0.50	N/A	N/A
1384	59.7	2.35	13.0	0.51	7.5	0.30	26.4	1.04	12.7	0.50	N/A	N/A
180BBS	109.7	4.3	25.4	1.0	2.7	0.50	N/A	¼-20	N/A	N/A	4.6	0.18
1328G1	59.7	2.35	16.3	0.64	12.4	0.49	26.4	1.04	12.7	0.50	N/A	N/A
1328G2	57.9	2.35	17.8	0.70	14.7	0.58	26.4	1.04	12.7	0.50	N/A	N/A

Powerpole®

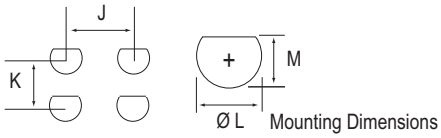


Bus Bar



Bus Bar Layout

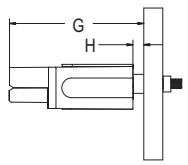
Part	- J -		- K -		- L-		- M -	
Number	mm	in.	mm	in.	mm	in.	mm	in.
180BBS	28.58	1.125	28.58	1.125	9.53	0.375	8.20	0.323



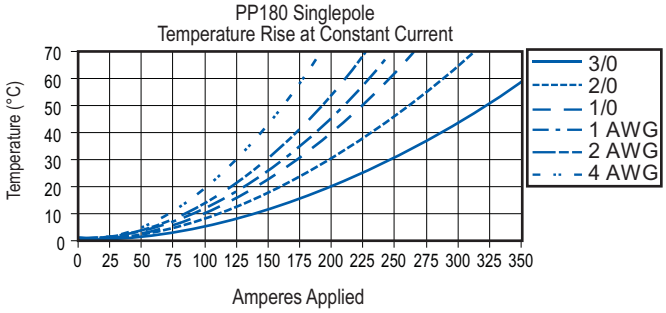
Mounting Dimensions

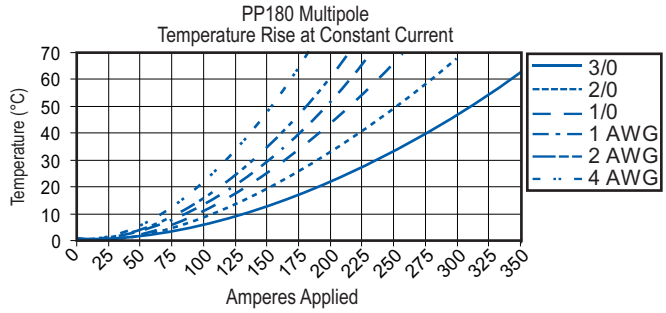
Bus Bar Mounting Table

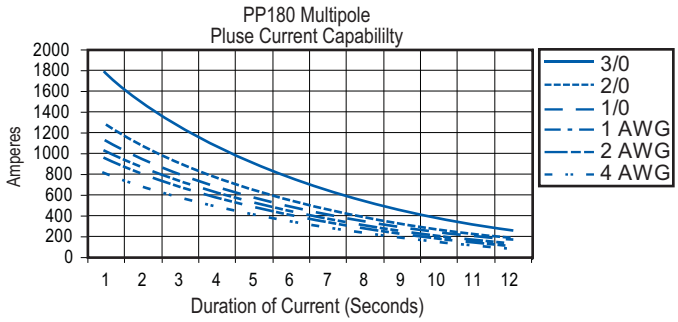
	- G -		- H -	
Series	mm	in.	mm	in.
PP180	89.8	3.5 ref	3.9	0.2 ref



TEMPERATURE RISE CHARTS







Mounting Clamps

Part	- A -		- B -		- C -		- D -	
Number	mm	in.	mm	in.	mm	in.	mm	in.
1465G1	71.4	2.81	55.7	2.19	43.0	1.69	28.6	1.13
1465G1	71.4	2.81	84.4	3.32	71.7	2.82	28.6	1.13
1465G2	100.8	3.97	55.7	2.19	43.0	1.69	57.2	2.25
1465G2	100.8	3.97	84.4	3.32	71.7	2.82	57.2	2.25

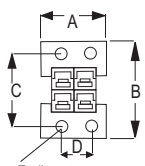
Part	- E -		Number
Number	mm	in.	of Poles
1465G1	4.8	0.19	(2 Pole)
1465G1	4.8	0.19	(4 Pole)
1465G2	4.8	0.19	(3 Pole)
1465G2	4.8	0.19	(6 Pole)



2 or 4 Pole



3 or 6 Pole



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