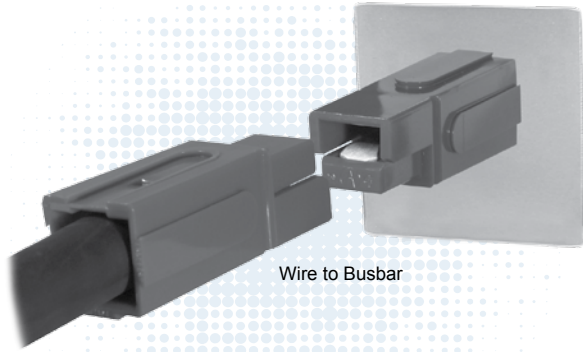


Powerpole® Connectors - PP180: up to 350 Amps



PP180 are the largest of the Powerpole® series housings. They are designed to accommodate up to 3/0 (70 mm²) wires and handle high currents up to 350 amps. Busbar contacts are also available for power inputs and takeoffs. Color-coded housings minimize user confusion and the potential of cross mating circuits.

Low Resistance Silver Plated Copper Contacts

- Allows currents up to 350 amps

UL Rated for Hot Plugging up to 75 Amps

- Great for battery or other applications where the ability to interrupt circuits is required

Busbar Contacts Work with Standard Housings

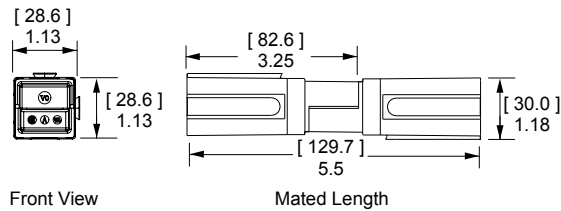
- Provides a hot swappable quick disconnect system for busbar power distribution

| PP180 ORDERING INFORMATION |

PP180 Housings

The largest Powerpole® housing can be used with wire contacts for up to 3/0 AWG [85mm²] or busbar contacts.

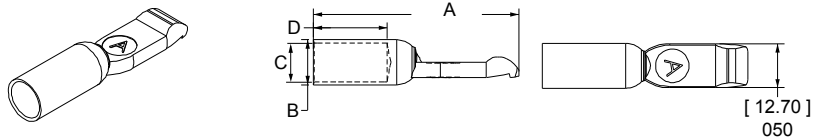
Description	----- Part Numbers -----	
Minimum Quantity ...	250	50
Red	1381G3-BK	1381G3
Green	1381G4-BK	1381G4
Black	1381G1-BK	1381G1
White	1381G2-BK	1381G2
Blue	1381-BK	1381



PP180 Silver Plated Wire Contacts

Silver plated contacts offer superior electrical performance and durability up to 10,000 mating cycles. New contacts for 2/0 to 3/0 AWG (70 to 85 mm²) offer extended capability in the same housings. See Reducing bushings in accessory section for smaller wires.

AWG	mm ²	Mating Force	----- Loose Piece Part Numbers -----				Dimensions							
			500	300	250	50	- A -		- B -		- C -		- D -	
Minimum Quantity						inches	mm	inches	mm	inches	mm	inches	mm	
3/0	85	Low	-	-	1328G2-BK	1328G2	2.35	59.69	0.70	17.78	0.58	14.73	1.04	26.42
2/0	67.4	Low	-	1328G1-BK	-	1328G1	2.35	59.69	0.64	16.26	0.49	12.45	1.04	26.42
1/0	53.5	High	1382-BK	-	-	1382	2.35	59.69	0.52	13.21	0.44	11.18	1.04	26.42
1	42.4	High	1347-BK	-	-	1347	2.35	59.69	0.52	13.21	0.39	9.91	1.04	26.42
2	33.6	High	1383-BK	-	-	1383	2.35	59.69	0.52	13.21	0.35	8.89	1.04	26.42
4	21.1	High	1384-BK	-	-	1384	2.35	59.69	0.52	13.21	0.30	7.62	1.04	26.42
6	13.3	High	1348-BK	-	-	1348	2.10	53.34	0.37	9.40	0.22	5.59	0.80	20.32

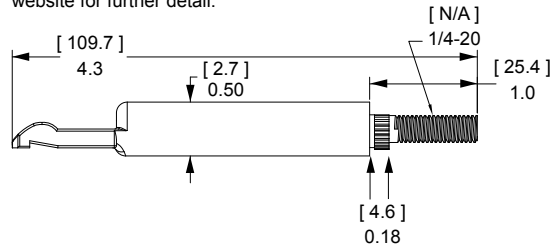


PP180 Silver Plated Busbar Contacts

Use 2 busbar contacts per housing to provide a quick disconnect input or output busbar connection. Busbar contacts are for mating with wire contacts only. Part number 180BBS includes lock nuts. Locknuts must be ordered separately for 180BBS-BK.

Thread	Mating Force	----- Loose Piece Part Numbers -----			
Minimum Quantity		1,000	120	10	
Busbar 1/4-20	High	180BBS-BK	180BBS	-	
Lock Nut 1/4-20	N/A	H1216P7	110G56	110G55	

See Busbar contact drawing on website for further detail.



PP180 SPECIFICATIONS

Electrical

Current Rating Amperes ¹	UL 1977	CSA
Singlepole (wire-wire) (3/0 AWG)	350	230
2x2 Block (wire-wire) (3/0 AWG)	350	
Singlepole (wire-busbar) (1/0 AWG)	180	

Voltage Rating AC/DC	UL 1977
UL 1977	600

Dielectric Withstanding Voltage	Volts AC
Volts AC	2,200

Avg. Mated Contact Resistance Milliohms ¹	6" of 1/0 AWG wire
6" of 1/0 AWG wire	0.100

UL Hot Plug Current Rating Amperes	250 cycles at 120V DC
250 cycles at 120V DC	75A

Mechanical

Wire Size Range	AWG	mm ²
Wire Contacts with Bushings	10 to 3/0	5.3 to 85

Max. Wire Insulation Diameter	in.	mm
Max. Wire Insulation Diameter	0.900	22.860

Operating Temperature ²	°F	°C
Operating Temperature ²	-4° to 221°	-20° to 105°

Mating Cycles No Load by Plating	Wire and Busbar Contacts	Silver (Ag)
Wire and Busbar Contacts	10,000	

Avg. Mating / Unmating Force	Lbf.	N
Wire & Busbar Contacts	10	44

Min. Contact / Spring Retention Force	Lbf.	N
Min. Contact / Spring Retention Force	120	534

Materials

Housing	
Plastic Resin	Polycarbonate
Contact Retention Spring	Stainless Steel

Housing Flammability Rating	
UL94	V-0

Contact	
Base	Copper Alloy
Plating	Silver

Contact Termination Methods	
Crimp ³	
Hand Solder	
Wrench / Socket*	

*Busbar Contacts Only

Protection

Touch Safety with Wire Contacts	
IEC 60529	IP10

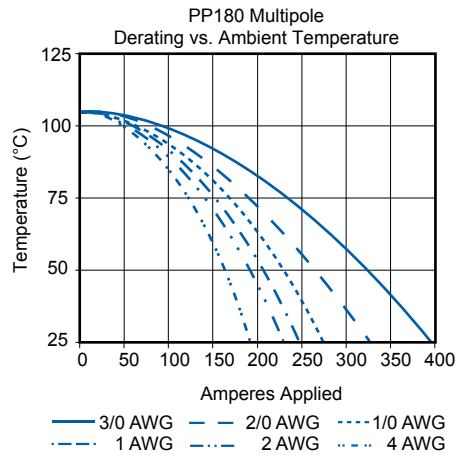
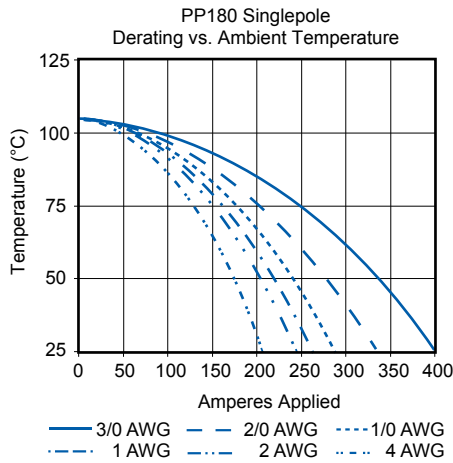
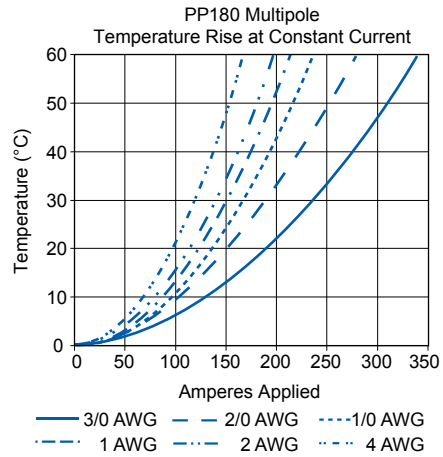
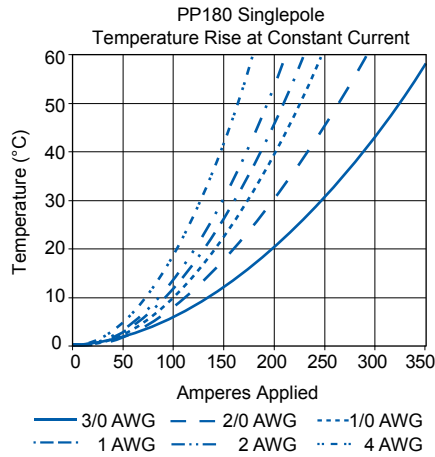
¹ Based on: 105°C rated or better cable of the largest size, Properly calibrated APP® recommended tooling, and a 25°C ambient temperature. UL rating not to exceed the maximum operating temperature. CSA rating below a 30°C temperature rise.

² Limited by the thermal properties of the connector plastic housing.

³ Use APP® recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.



| PP180 TEMPERATURE CHARTS |

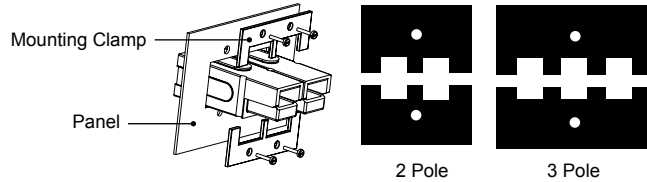


NOTE: Temperature rise charts are based on a 25°C ambient temperature.

| Powerpole® PP180 Accessories |

Mounting Clamp

Mounting clamps can be used for fastening a block of Powerpole® 180 series housings to a panel. Connector blocks must be a complete square for the clamps to work properly. Fastening hardware not included.

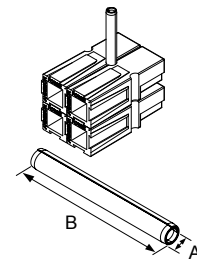


Description	- Part Numbers -
Minimum Quantity ...	20 sets of 2
2 Pole	1465G1
3 Pole	1465G2

Retaining Pins

Retaining pins are used to keep stacked Powerpole® 180 series housings from separating. Retaining pins are inserted in the circular opening between two housings stacked side by side. Dimension "B" is +/- .015 in or .38 mm.

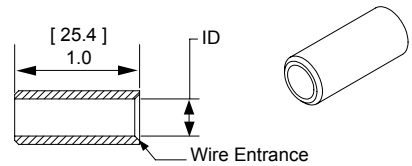
Description	Part Numbers		Dimensions			
			- A - inches		- B - mm	
Minimum Quantity ...	1,000	100				
1 Block High	111812P6	110G18	0.196 / 0.207	4.98 / 5.26	1.000	25.400
2 Block High	111812P8	110G20	0.196 / 0.207	4.98 / 5.26	1.500	38.100



Reducing Bushings

Use with contact part number 1382-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

Contact Barrel Size	Wire Size	Part Numbers				Dimensions - ID -	
		1,500	1,000	500	100	inches	mm
1/0 AWG [53.5 mm²]	#1 AWG [42.4 mm²]	-	-	5687-BK	5687	0.39	9.91
1/0 AWG [53.5 mm²]	#2 AWG [33.6 mm²]	5690-BK	-	-	5690	0.34	8.64
1/0 AWG [53.5 mm²]	#4 AWG [21.2 mm²]	-	5693-BK	-	5693	0.27	6.86
1/0 AWG [53.5 mm²]	#6 AWG [13.3 mm²]	-	5663-BK	-	5663	0.22	5.59
1/0 AWG [53.5 mm²]	#10 - 8 AWG [5.3 - 8.4 mm²]	5648-BK	-	-	5648	0.19	4.83



For environmentally sealed connector shells to hold Powerpole® 15-180 connectors, see APP®'s SPEC Pak® product series on our website, www.andersonpower.com



Powerpole® - Tooling Information

Wire Size		Reeled Part Numbers		Reeled Contact Crimp Tool				
AWG	mm²	Tin Plating	Silver Plating	APP Applicator +	APP Press or	ATS Applicator +	ATS Press +	Air Feed Kit *
PP15 / 45 Flat Wiping Power & Ground								
#16 / 20	1.3 / 0.52	262G1	262G2	TD0101	115V= TE0101 230V = TE0102	1385519-1	1725900-2 or [354500-1]	1424266-1 or [354578-1]
#16 / 20	1.3 / 0.52	269G2	N/A			1385519-1		
#12 / 16	3.3 / 1.3	261G1	261G4			1385520-1		
#10 / 14	5.3 / 2.1	261G2	261G3			1385458-1		
#12 / 16	3.3 / 1.3	269G1	N/A			1385520-1		
#10 / 14	5.3 / 2.1	269G3	N/A			1385458-1		
#10 / 14	5.3 / 2.1	200G1L	200G3L	TD0102		1385460-1		
#10 / 14	5.3 / 2.1	201G1H	201G3H			1385460-1		
#10 / 14	5.3 / 2.1	1830G1	1830G2			1385460-1		
#10 / 14	5.3 / 2.1					1385460-1		

NOTE: Insertion / Extraction tool for PP15/45 contacts = 111038G2

* All ATS applicators for APP® contacts are air feed style, (except 1385870) and require the press to have an air feed kit installed. APP applicators are mechanical feed style and do not require an air feed kit.

Wire Size		Loose Piece Part Numbers		Loose Piece Contact Crimp Tool								
AWG	mm²	Tin Plating	Silver Plating	Hand Tool or	Pneumatic Bench Tool +	Die +	Locator	Number of Crimps				
PP15 / 45 Flat Wiping Power & Ground												
#16 / 20	1.3 / 0.52	N/A	1332	1309G2 or 1309G8	1367G1							
#12 / 16	3.3 / 1.3	N/A	1331									
#16 / 20	1.3 / 0.52	262G1-LPBK	262G2-LPBK									
#16 / 20	1.3 / 0.52	269G2-LPBK	N/A									
#12 / 16	3.3 / 1.3	261G1-LPBK	261G4-LPBK	1309G3 or 1309G8	N/A	N/A	N/A	Single				
#10 / 14	5.3 / 2.1	261G2-LPBK	261G3-LPBK									
#12 / 16	3.3 / 1.3	269G1-LPBK	N/A									
#10 / 14	5.3 / 2.1	269G3-LPBK	N/A									
#10 / 14	5.3 / 2.1	200G1L-LPBK	200G3L-LPBK	1309G6 or 1309G8								
#10 / 14	5.3 / 2.1	201G1H-LPBK	201G3H-LPBK									
310 / 14	5.3 / 2.1	1830G1-LPBK	1830G2-LPBK									
PP75												
#6	13.3	N/A	1307	1309G4	1387G1			1389G6				
			5900					1388G6	1389G21			
#8	8.4		1875G1					1388G7	1389G6			
#10 / 12	5.3 / 3.3		5952							1389G21		
			1875G2							1389G6		
			5953							1389G21		
			5915					1389G6				
			1875G3					1389G21				
PP120												
1/0	53.5	N/A	1323G2	1368 Series	1387G1			1388G3				
#1	42.4		1323G1					1389G4				
#2	33.6		1319					1388G4				
#4	21.2		1319G4									
#6	13.3		1319G6									
PP180												
3/0	85	N/A	1328G2	1368 Series	1387G2	1303G12	1304G32	Double				
2/0	53.5		1328G1									
1/0	53.5		1382									
#1	42.4		1347									
#2	33.6		1383									
#4	21.1		1384									
#6	13.3		1348						1387G1	1388G4	1389G3	Single

1. NOTE: See website for the most current information.

2. NOTE: Insertion / Extraction tool for PP15/45 contacts = 111038G2