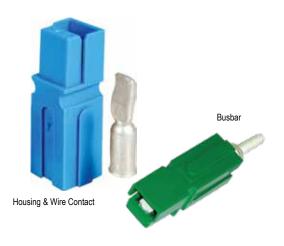
Powerpole® Connector PP180 - Up to 350 Amps



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

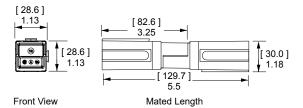
 Allows currents up to 350 amps
- UL Rated for Hot Plugging up to 75 Amps
 Great for battery or other applications where the ability to interrupt circuits is required
- Busbar Contacts Work with Standard Housings
 Provides a hot swappable quick disconnect system for
 busbar power distribution

PP180 ORDFRING INFORMATION

PP180 Housings

The largest Powerpole® housing can be used with wire contacts for up to 3/0 AWG (85 mm²) 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			



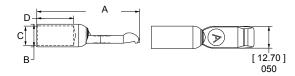
PP180 Silver Plated Wire Contacts

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.

							Dimensions							
		Mating					- /	۸ -	-1	B -	- C	; -	- D	-
AWG	mm²	Force	Lo	ose Piece Pa	rt Numbers		inches	mm	inches	mm	inches	mm	inches	mm
Minimu	ım Quar	ntity	500	300	250	50								
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

^{*} Extended range

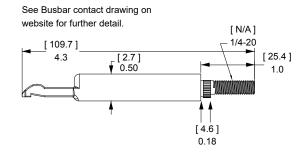




PP180 Silver Plated Busbar Contacts

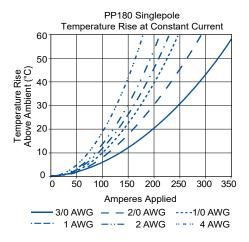
Use 1 busbar contacts per housing to provide a quick disconnect input or output busbar connection. Busbar contacts are for mating with wire contacts only. Part number 180BBS includes lock nuts. Locknuts must be ordered separately for 180BBS-BK.

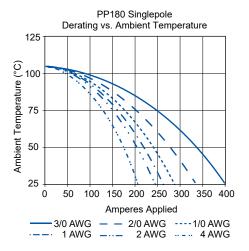
Thread	Mating Force	Loose Pie	ce Part Nur	nbers
Minimum Quantity		1,000	120	10
Busbar 1/4-20	High	180BBS-BK	180BBS	-
Lock Nut 1/4-20	N/A	H1216P7	110G56	110G55

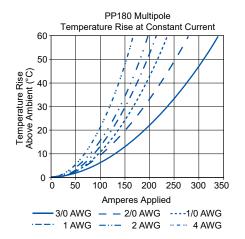


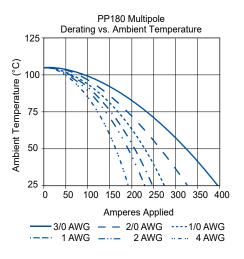
$PP180\ CONNECTOR\ TEMPERATURE\ CHARTS\ -\ Temperature\ rise\ charts\ are\ based\ on\ a\ 25^\circ C$ ambient temperature.

Current - Temperature Derating per IEC 60512-5-2 Test 5B









PP180 SPECIFICATIONS

ELECTRICAL		
Current Rating Amperes ¹	UL 1977	CSA
Singlepole (Wire-to-Wire) (3/0 AWG)	350	230
2x2 Block (Wire-to-Wire) (3/0 AWG)	350	
Singlepole (Wire-to-Busbar) (1/0 AWG)	180	
Voltage Rating AC/DC		
UL 1977	600	
Dielectric Withstanding Voltage		
Volts AC	2,200	
Avg. Mated Contact Resistance Milliohms ¹	0.100	
6" of 1/0 AWG Wire		
UL Hot Plug Current Rating Amperes ⁴		
250 Cycles at 120V DC	75A	

MECHANICAL		
Wire Size Range	AWG	mm²
Wire Contacts with Bushings	10 to 3/0	5.3 to 85
Max. Wire Insulation Diameter	in.	mm
	0.900	22.860
Operating Temperature ²	°F	°C
	-4° to 221°	-20° to 105°
Mating Cycles No Load by Plating	Silver (Ag)	N
Wire and Busbar Contacts	10,000	44
Avg. Mating / Unmating Force	Lbf.	N
Wire & Busbar Contacts	10	44
Min. Contact / Spring Retention Force	Lbf.	N
	120	534

MATERIALS	
Housing	
Plastic Resin	Polycarbonate
Contact Retention Spring	Stainless Steel
Housing Flammability Rating	
UL94	V-0
Glow Wire	960°C (GWFI) / 850°C (GWIT)
Contact	
Base	Copper Alloy
Plating	Silver
Contact Termination Methods	
Crimp ³	
Hand Solder	









NOTE 1: See IEC 60664-1 for working voltage.

NOTE 2: Amp ratings are stated per position and based on all positions being fully loaded.

- 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.
- 4 Based on 2 housings blocked together.

. Busbar	Contacts	Offliy

Wrench / Socket *

IEC INFORMATION

Connector Series	Configuration	าร	Creepage / Clearance per IEC 60950-1	Material Group
PP180	Single Pole	Unmated	6.02 mm	
		Mated	6.02 mm	Illa
	Stacked	Unmated	6.02 mm	IIId
	Powerpole®	Mated	6.02 mm	

PROTECTION

Touch Safety with Wire Contacts

IEC 60529 IP10



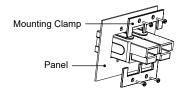
ATTRIBUTES	PP180
AMP Rating AC/DC	180
Voltage Rating AC/DC (Steady State)	500 V AC/DC (Operational)
Breaking Capacity - AMP Rating / Cycles	180 Amp / 10 Cycles
Voltage Rating (Breaking Capacity)	220 VDC
FINGER Safety - Mated Only	IEC 60529 - IP20
Wire Size Tested	70 mm²
Contact Series Tested	1382G2
Climatic Testing (Cold, Heat & MFG)	IEC 60512 Test-11j, 11i & 11g
Cycle Life	IEC 60512 Test 9a - 5,000 Cycles
Mechanical Strength Impact	IEC 60512-5 @ 29.5 Inches- Dropped 8 times
Temperature Range	-20°C to 105°C
	-4°F to 221°F

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





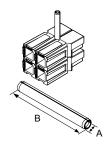


3 Pole

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.

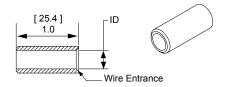
			Dimensions						
			- A	- A -		-			
Description	Part Numbers		incl	inches					
Minimum Quantity	1,000	100	0.400.40.007	4.00 / 5.00	4 000	05.400			
1 Block High	111812P6	110G18	0.196 / 0.207	4.98 / 5.26	1.000	25.400			
2 Block High	111812P8	110G20	0.196 / 0.207	4.98 / 5.26	1.500	38.100			



Reducing Bushings

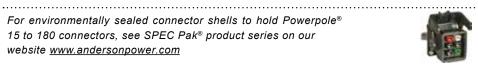
Use with contact part number 1382-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

Contac	t Barrel Size	Wire S	Size mm²	Part Numbers				Dimensions - ID - inches mm	
Minimu	m Quantity			1,500	1,000	500	100		
1/0	53.5	1	42.4	-	-	5687-BK	5687	0.39	9.91
1/0	53.5	2	33.6	5690-BK	-	-	5690	0.34	8.64
1/0	53.5	4	21.2	-	5693-BK	-	5693	0.27	6.86
1/0	53.5	6	13.3	-	5663-BK	-	5663	0.22	5.59
1/0	53.5	10 to 8	5.3 to 8.4	5648-BK	-	-	5648	0.19	4.83



NOTE: Combination of a bushing and contact is not UL approved.

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







Powerpole®

Tooling Information - APP® Applicators are Mechanical Feed Style and do not Require an Air Feed Kit.

e Size	Loose Piece Part Number		Loose Piece Contact Crimp Tools							
mm²	Tin Plating	Silver Plating	Hand Tool	OR	Pneumatic Bench Tool	+	Die	+	Locator	Number of Crimps
		PP15 / 4	45 Flat Wiping	g Pow	er & Ground					
1.3 to 0.52	N/A	1332								
3.3 to 1.3	N/A	1331	1309G2 or 1309G8				N/A			
1.3 to 0.52	262G1-LPBK	262G2-LPBK								
1.3 to 0.52	269G2-LPBK	N/A							N/A	Single
3.3 to 1.3	261G1-LPBK	N/A			N/A					
5.3 to 2.1	261G2-LPBK	261G3-LPBK	1309G3							
3.3 to 1.3	269G1-LPBK	N/A	or 1309G8		IN/A					
5.3 to 2.1	269G3-LPBK	N/A								
5.3 to 2.1	200G1L-LPBK	200G3L-LPBK								
5.3 to 2.1	201G1H-LPBK	N/A	1309G6 or 1309G8							
5.3 to 2.1	1830G1-LPBK	1830G2-LPBK								
			PP7	5			1			
12.2		1307							120005	
13.3		5900			1387G1	_	1388G6		1389G6	
8.4		1875G1	1309G4						1389G21	
10 to 12 5.3 to 3.3	N/A	5952							1389G6 1389G21 1389G6	G:l-
		1875G2								Single
		5953					1388G7			
		5915								
		1875G3							1389G21	
			PP12	:0						
53.5		1323G2					120002			
42.4	N/A	1323G1	1368 Series		1387G1		130003			
33.6		1319				1388G4	1389G4	Single		
21.2		1319G4								
13.3		1319G6								
			PP18	0						
85		1328G2					1303612			
53.5		1328G1	1368 Series			1303G12	1303012		1304G32	Double
53.5		1382			138762					
42.4	N/A	1347			130/02			1304G32	Double	
33.6		1383					1303013			
21.1		1384								
21.1			_					4		
	1.3 to 0.52 3.3 to 1.3 1.3 to 0.52 1.3 to 0.52 1.3 to 0.52 3.3 to 1.3 5.3 to 2.1 3.3 to 1.3 5.3 to 2.1 5.3 to 2.1 5.3 to 2.1 5.3 to 3.3 8.4 5.3 to 3.3 8.4 5.3 to 3.3	mm² Tin Plating 1.3 to 0.52 N/A 3.3 to 1.3 N/A 1.3 to 0.52 262G1-LPBK 1.3 to 0.52 269G2-LPBK 3.3 to 1.3 261G1-LPBK 5.3 to 2.1 269G3-LPBK 5.3 to 2.1 200G1L-LPBK 5.3 to 2.1 1830G1-LPBK 5.3 to 2.1 1830G1-LPBK 5.3 to 3.3 N/A 53.5 42.4 33.6 N/A 21.2 13.3 85 53.5 53.5 42.4 42.4 N/A	mm² Tin Plating Silver Plating PP15 / 4 1.3 to 0.52 N/A 1332 3.3 to 1.3 N/A 1331 1.3 to 0.52 262G1-LPBK 262G2-LPBK 1.3 to 0.52 269G2-LPBK N/A 3.3 to 1.3 261G1-LPBK N/A 5.3 to 2.1 261G2-LPBK N/A 5.3 to 2.1 269G3-LPBK N/A 5.3 to 2.1 200G1L-LPBK 200G3L-LPBK 5.3 to 2.1 201G1H-LPBK N/A 5.3 to 2.1 1830G1-LPBK 1830G2-LPBK 5.3 to 3.3 1875G1 5990 8.4 1875G1 5952 1875G2 5953 5915 1875G3 1875G3 53.5 1323G2 42.4 1319G4 13.3 1319G4 1319G6 85 1328G1 53.5 1328G1 53.5 1328G1 53.5 1328G1 53.5 1342	mm² Tin Plating Silver Plating Hand Tool 1.3 to 0.52 N/A 1332 130962 or 130968 3.3 to 1.3 N/A 1331 130962 or 130968 1.3 to 0.52 262G1-LPBK 262G2-LPBK 130968 1.3 to 0.52 269G2-LPBK N/A 130968 1.3 to 0.52 269G2-LPBK N/A 130968 3.3 to 1.3 261G1-LPBK N/A 130963 or 130968 5.3 to 2.1 269G3-LPBK N/A 130968 5.3 to 2.1 200G1L-LPBK 200G3L-LPBK 130968 5.3 to 2.1 1830G1-LPBK 1830G2-LPBK 130968 5.3 to 2.1 1830G1-LPBK 1830G2-LPBK 130968 13.3 1830G1-LPBK 1830G2-LPBK 130968 130968 5.3 to 2.1 1830G1-LPBK 1830G2-LPBK 130968 130968 5.3 to 2.1 1830G1-LPBK 1830G2-LPBK 130964 130964 130964 130964 1368 Series 5.3 to 3.3 1832G2 1328G2 1328G2 <td>mm² Tin Plating Silver Plating Hand Tool OR PP15 / 45 Flat Wiping Pow 1.3 to 0.52 N/A 1332 1309G2 or 1309G8 1309G3 or 1309G8 1309G</td> <td> Tin Plating Silver Plating Hand Tool OR Pneumatic Bench Tool </td> <td> Tin Plating Silver Plating Hand Tool Rench Tool Pneumatic Bench Tool </td> <td> Tin Plating Silver Plating Hand Tool OR Pneumatic Bench Tool + Die </td> <td> Tin Plating Silver Plating Hand Tool OR Bench Tool + Die + </td> <td> Name</td>	mm² Tin Plating Silver Plating Hand Tool OR PP15 / 45 Flat Wiping Pow 1.3 to 0.52 N/A 1332 1309G2 or 1309G8 1309G3 or 1309G8 1309G	Tin Plating Silver Plating Hand Tool OR Pneumatic Bench Tool	Tin Plating Silver Plating Hand Tool Rench Tool Pneumatic Bench Tool	Tin Plating Silver Plating Hand Tool OR Pneumatic Bench Tool + Die	Tin Plating Silver Plating Hand Tool OR Bench Tool + Die +	Name

NOTE: see website for the most current information.



Wire Size		Reeled Pa	rt Number	Reeled Contact Crimp Tools							
AWG	mm²	Tin Plating	Silver Plating	APP® Applicator	+	APP® Press					
PP15/45 Flat Wiping Power & Ground											
16 to 20	1.3 to 0.52	262G1	262G2								
16 to 20	1.3 to 0.52	269G2	N/A			115V = TE0101 230V = TE0102					
12 to 16	3.3 to 1.3	261G1	N/A	TD0101							
10 to 14	5.3 to 2.1	261G2	261G3	100101							
12 to 16	3.3 to 1.3	269G1	N/A								
10 to 14	5.3 to 2.1	269G3	N/A								
10 to 14	5.3 to 2.1	200G1L	200G3L								
10 to 14	5.3 to 2.1	201G1H	N/A	TD0102							
10 to 14	5.3 to 2.1	1830G1	1830G2								

Your Best Connection™

2020-0055 DS-PP180 REV C7

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