

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

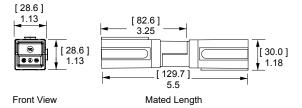
 Allows currents up to 350 amps
- UL Rated for Hot Plugging up to 75 Amps
 Great for battery or other applications where the ability to interrupt circuits is required
- Busbar Contacts Work with Standard Housings
 Provides a hot swappable quick disconnect system for
 busbar power distribution

PP180 ORDERING INFORMATION

PP180 Housings

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



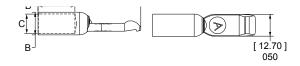
PP180 Silver Plated Wire Contacts

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					- A	\ -	- E	3 -	- C	-	- D	-
AWG	mm²	Force	Lo	ose Piece Pa	rt Numbers		inches	mm	inches	mm	inches	mm	inches	mm
Minim	um 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



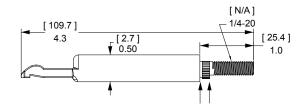


PP180 Silver Plated Busbar Contacts

Use 1 busbar contact 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.

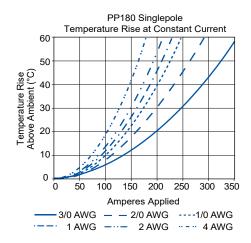
	Mating						
Thread	Force	Loose Piece Part Numbers					
Minimum Quantity		1,000	120	10			
Busbar 1/4-20	High	180BBS-BK	180BBS	-			
Lock Nut 1/4-20	N/A	H1216P7	110G56	110G55			

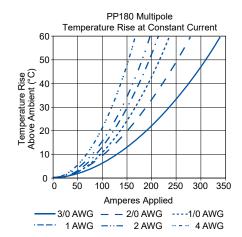
See Busbar contact drawing on website for further detail.

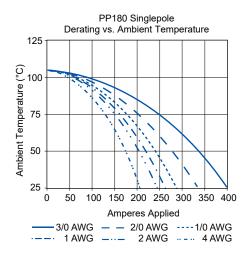


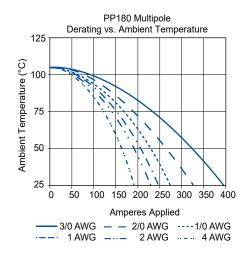
$PP180\ CONNECTOR\ TEMPERATURE\ CHARTS\ -\ Temperature\ rise\ charts\ are\ based\ on\ a\ 25^\circ C$ ambient temperature.

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







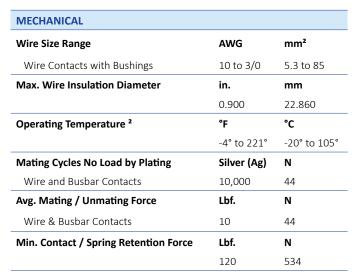


PP180 SPECIFICATIONS

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	

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	
Wrench / Socket *	

^{*} Busbar Contacts Only











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 Anderson Power™ 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 Anderson Power™ 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.

IEC INFORMATION

Connector Series	Configuration	ns	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



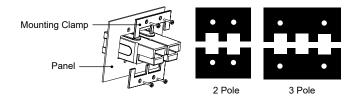
ATTRIBUTES	PP180
AMP Rating AC/DC	180
Voltage Rating AC/DC (Steady State)	500 V AC/DC (Operational)
Breaking Capacity - AMP Rating / Cycles	180 Amp / 10 Cycles
Voltage Rating (Breaking Capacity)	220 VDC
FINGER Safety - Mated Only	IEC 60529 - IP20
Wire Size Tested	70 mm²
Contact Series Tested	1382G2
Climatic 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.

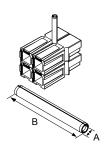
Description	Part Numbers
Minimum Quantity	20 sets of 2
2 Pole	1465G1
3 Pole	1465G2



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.

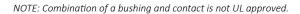
			Dimensions				
			- 4	- B	-		
Description	Part Numbers		inc	mr	n		
Minimum Quantity	1,000	100					
1 Block High	111812P6	110G18	0.196 / 0.207	4.98 / 5.26	1.000	25.400	
2 Block High	111812P8	110G20	0.196 / 0.207	4.98 / 5.26	1.500	38.100	

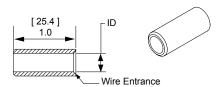


Silver Plated Reducing Bushings

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.

								Dimen	sions		
Contact Barrel Size Wire Size									- ID -		
AWG	mm²	AWG	mm²	Part Numbers				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		





Powerpole®

Tooling Information - Anderson Power™ Applicators are Mechanical Feed Style and do not Require an Air Feed Kit.

Wire Size Loose Piece Part Number			Loose Piece Contact Crimp Tools														
AWG	mm²	Tin Plating	Silver Plating	Hand Tool	OR	Pneumatic Bench Tool	+	Die	+	Locator	Number of Crimps						
	PP180																
3/0	85		1328G2											1202612			
2/0	53.5		1328G1					1303G12	_	1204622	Daubla						
1/0	53.5		1382		1207/	120762											
1	42.4	N/A	1347	1368 Series		1387G2	138/G2	138/G2	4000040		1304G32	Double					
2	33.6		1383					1303G13									
4	21.1		1384														
6	13.3		1348			1387G1		1388G4		1389G3	Single						

NOTE: see website for the most current information.

All Data Subject to Change Without Notice 2024-0103 DS-PP180 REV 8 Your Best Connection™

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