Powerpole® Connectors PP120 - Up to 240 Amps



1/0 (50 mm²) Wire

Reducing bushings allow as small as 8 (10 mm²) wire to be used

• Low Resistance Silver Plated Copper Contacts

Allows currents up to 240 amps

PP120 series Powerpole* housings are designed to accommodate up to 1/0 AWG (50 mm²) wires and handle high currents up to 240 amps. Reducing bushings allow PP120 to accept down to 8 AWG (10 mm²) wires. Multiple colors of stackable housings combine with low resistance flat wiping technology to

offer powerful connection capability.

Large Wire Range Accommodates up to

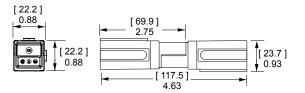
• UL Rated for Hot Plugging up to 60 Amps
Great for battery or other applications where the ability to
interrupt circuits is required

PP120 ORDERING INFORMATION

PP120 Housings

The second to largest Powerpole® housing can be used with wire contacts for up to 1/0 AWG (50 mm²) or busbar contacts.

Description	Part Num	bers
Minimum Quantity	500	50
Blue	1321-BK	1321
Black	1321G1-BK	1321G1
White	1321G2-BK	1321G2
Red	1321G3-BK	1321G3
Green	1321G4-BK	1321G4
Orange	1321G5-BK	1321G5
Brown	1321G6-BK	1321G6
Yellow	1321G7-BK	1321G7
Gray	1321G8-BK	1321G8



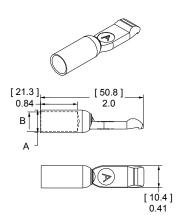
PP120 Silver Plated Wire Contacts

Silver plated contacts offer superior electrical performance and durability up to 10,000 mating cycles. New contacts for 1 to 1/0 AWG (35 to 50 mm²) offer extended capability in the same housings. See reducing bushings in accessory section for smaller wires.

		Mating				- A	-	- B	3 -
AWG	mm²	Force	Loose I	Piece Part Nu	mbers	inches	mm	inches	mm
Minim	num Qua	antity	600	500	50				
1/0	53.5	Low	1323G2-BK	-	1323G2 *	0.52	13.21	0.44	11.18
1	42.4	Low	1323G1-BK	-	1323G1 *	0.47	11.94	0.39	9.91
2	33.6	High	-	1319-BK	1319	0.44	11.18	0.34	8.64
4	21.1	High	-	1319G4-BK	1319G4	0.44	11.18	0.29	7.37
6	13.3	High	-	1319G6-BK	1319G6	0.44	11.18	0.22	5.59

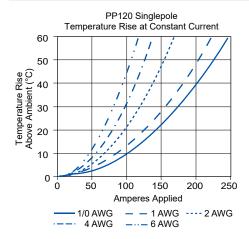
^{6 13.3} High - 1319G6-BK 1319G6 0.44 11.18 0.22

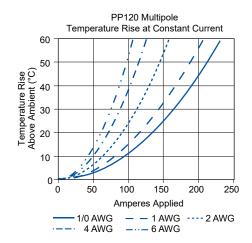
* Extended range

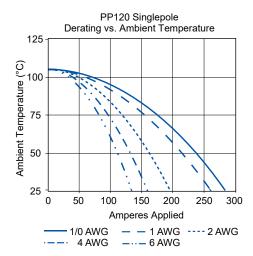


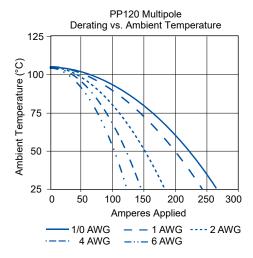
PP120 CONNECTOR TEMPERATURE CHARTS - Temperature rise charts are based on a 25°C ambient temperature.

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









PP120 SPECIFICATIONS

ELECTRICAL		
Current Rating Amperes ¹	UL 1977	CSA
Singlepole UL 1977 (1/0 AWG)	240	155
2x2 Block UL 1977 (1/0 AWG)	200	110
Voltage Rating AC/DC		
UL 1977	600	
Dielectric Withstanding Voltage		
Volts AC	2,200	
Avg. Mated Contact Resistance Milliohms ¹		
5 1/2" of 2 AWG Wire	0.136	
UL Hot Plug Current Rating Amperes ⁴		
250 Cycles at 120V DC	60A	

MECHANICAL		
Wire Size Range	AWG	mm²
Wire Contacts with Bushings	10 to 1/0	5.3 to 53.5
Max. Wire Insulation Diameter	in.	mm
	0.600	15.240
Operating Temperature ²	°F	°C
	-4° to 221°	-20° to 105°
Mating Cycles No Load by Plating	Silver (Ag)	
Wire Contacts	10,000	
Avg. Mating / Unmating Force	Lbf.	N
	8	36
Min. Contact / Spring Retention Force	Lbf.	N
	60	267

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	Wire Contacts
Hand Solder	Wire Contacts









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.

IEC INFORMATION

Connector Series	Configuration	าร	Creepage / Clearance per IEC 60950-1	Material Group
	Single Pole	Unmated	4.36 mm	
PP120		Mated	4.36 mm	Illa
PP12U	Stacked	Unmated	4.36 mm	IIIa
	Powerpole®	Mated	4.36 mm	

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Touch Safety with Wire Contacts

IEC 60529 IP10



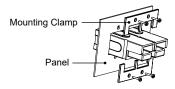
ATTRIBUTES	PP120
AMP Rating AC/DC	120
Voltage Rating AC/DC (Steady State)	400 V AC/DC (Operational)
Breaking Capacity - AMP Rating / Cycles	120 Amp / 10 Cycles
Voltage Rating (Breaking Capacity)	220 VDC
FINGER Safety - Mated Only	IEC 60529- IP20
Wire Size Tested	50 mm ²
Contact Series Tested	1323G2
Climatic 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® PP120 ACCESSORIES

Mounting Clamp

Mounting clamps can be used for fastening a block of Powerpole® 120 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	1464G1
3 Pole	1464G2



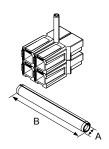




Retaining Pins

Retaining pins are used to keep stacked Powerpole® 120 series housings from separating. Retaining pins are inserted in the circular opening between two housings stacked side by side. Dimension B is +/- 0.015 in or 0.38 mm.

				Dimensions		
			- A -		- B	-
Description	Part Nu	mbers	inches	mm	inches	mm
Minimum Quantity	1,000	100				
1 Block High	111812P7	110G19	0.196 / 0.207	4.98 / 5.26	0.560	14.220
2 Block High	111812P8	110G20	0.196 / 0.207	4.98 / 5.26	1.500	38.100

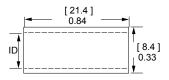


Reducing Bushings

Use with contact part number 1319-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

							Dimen	sions
Conta	ct Barrel Size	Wire S	Size				- ID) -
AWG	mm²	AWG	mm²	Pa	art Numbers		inches	s mm
Minim	um Quantity			2,000	1,000	100		
2	33.6	4	21.2	5919-BK	-	5919	0.28	7.11
2	33.6	6	16	-	5920-BK	5920	0.23	5.84
2	33.6	10 to 8	5.3 to 8.4	5921-BK		5921	0.18	4.57

 ${\it NOTE: Combination of a bushing and contact is not UL approved.}$



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.

Wire Size		Loose Piece Part Number				Loose Pie	ece (Contact Cri	mp 1	Tools	
AWG	mm²	Tin Plating	Silver Plating	Hand Tool	OR	Pneumatic Bench Tool	+	Die	+	Locator	Number of Crimps
			PP15 / 4	រ5 Flat Wipinខ្	g Pow	er & Ground					
16 to 20	1.3 to 0.52	N/A	1332								
12 to 16	3.3 to 1.3	N/A	1331	1309G2							
16 to 20	1.3 to 0.52	262G1-LPBK	262G2-LPBK	or 1309G8							
16 to 20	1.3 to 0.52	269G2-LPBK	N/A								
12 to 16	3.3 to 1.3	261G1-LPBK	N/A								
10 to 14	5.3 to 2.1	261G2-LPBK	261G3-LPBK	1309G3		N/A		N/A		N/A	Single
12 to 16	3.3 to 1.3	269G1-LPBK	N/A	or 1309G8		IN/A		IN/A		IN/A	Sillgle
10 to 14	5.3 to 2.1	269G3-LPBK	N/A								
10 to 14	5.3 to 2.1	200G1L-LPBK	200G3L-LPBK								
10 to 14	5.3 to 2.1	201G1H-LPBK	N/A	1309G6 or							
310 to 14	5.3 to 2.1	1830G1-LPBK	1830G2-LPBK	1309G8							
			1	PP7	5			,		'	
_			1307								
6	13.3		5900			100704			1389G6		
8	8.4		1875G1					1388G6		1389G21	1
		N. /A	5952	120064					1389G6	Single	
		N/A	1875G2	1309G4		1387G1				1389G21	Single
10 to 12	5.3 to 3.3		5953				1388G7		100005		
			5915					1388G7		1389G6	
			1875G3							1389G21	
	1			PP12	.0			'			
1/0	53.5		1323G2					120062			
1	42.4		1323G1					1388G3			
2	33.6	N/A	1319	1368 Series		1387G1				1389G4	Single
4	21.2		1319G4					1388G4			
6	13.3		1319G6								
			·	PP18	0			·		·	
3/0	85		1328G2					1202012			
2/0	53.5		1328G1					1303G12			
1/0	53.5		1382	1368 Series		120762				1204633	Davible
1	42.4	N/A	1347			1387G2		1202012		1304G32	Double
2	33.6		1383					1303G13			
4	21.1		1384								
6	13.3		1348			1387G1		1388G4		1389G3	Single
		l ol for PP15/45 Co	ontacts = 111038G	2		150/01		130004		130303	Jiligic

NOTE: see website for the most current information.



Wire Size		Reeled Part 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	TD0101	115V = TE0101 230V = TE0102	
16 to 20	1.3 to 0.52	269G2	N/A			
12 to 16	3.3 to 1.3	261G1	N/A			
10 to 14	5.3 to 2.1	261G2	261G3			
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	TD0102		
10 to 14	5.3 to 2.1	201G1H	N/A			
10 to 14	5.3 to 2.1	1830G1	1830G2			

Your Best Connection™

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