

Powerpole® Connectors PP120 - 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 1/0 (50 mm²) Wire

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

- Low Resistance Silver Plated Copper Contacts

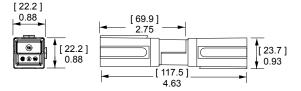
 Allows currents up to 240 amps
- UL Rated for Hot Plugging up to 60 Amps Great for battery or other applications where the ability to interrupt circuits is required

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 Numbers					
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.

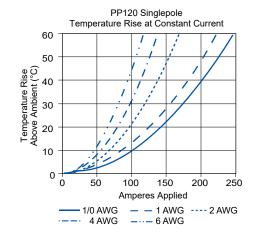
		Mating				- A		- E	3 -
AWG	mm²	Force	Loose I	Piece Part Nu	mbers	inches	mm	inches	mm
Minim	ium Qua	antity	600	500	50				
1/0	53.5	Low	1323G2-BK	-	1323G2 *	0.52	13.21	0.44	11.18
1	42.4	Low	1323G1-BK	-	1323G1 *	0.47	11.94	0.39	9.91
2	33.6	High	-	1319-BK	1319	0.44	11.18	0.34	8.64
4	21.1	High	-	1319G4-BK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

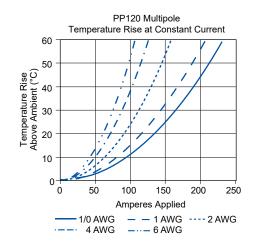
^[21.3] 0.84 B [50.8] 2.0 [10.4] 0.41

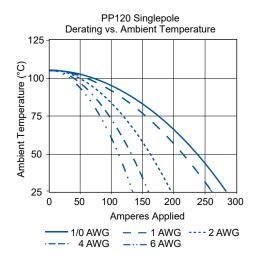
^{*} Extended range

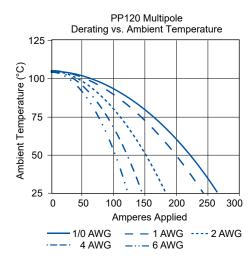
$PP120\ CONNECTOR\ TEMPERATURE\ CHARTS\ -\ Temperature\ rise\ charts\ are\ based\ on\ a\ 25^\circ C$ ambient temperature.

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









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 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	Creepage Clearance per IEC 60950-1			
	Single Pole	Unmated	4.36 mm		
PP120		Mated	4.36 mm	Illa	
PP120	Stacked	Unmated	4.36 mm	IIIa	
	Powerpole®	Mated	4.36 mm		

PROTECTION

Touch Safety with Wire Contacts

IEC 60529 IP10



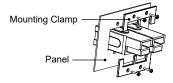
ATTRIBUTES	PP120
AMP Rating AC/DC	120
Voltage Rating AC/DC (Steady State)	400 V AC/DC (Operational)
Breaking Capacity - AMP Rating / Cycles	120 Amp / 10 Cycles
Voltage Rating (Breaking Capacity)	220 VDC
FINGER Safety - Mated Only	IEC 60529- IP20
Wire Size Tested	50 mm ²
Contact Series Tested	1323G2
Climatic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



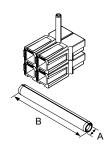




Retaining Pins

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 Numbers		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	

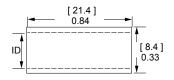


Silver Plated Reducing Bushings

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
Contac	ct Barrel Size	Wire S	Size				- ID	-
AWG	mm²	AWG	mm²	Pa		inches	mm	
Minimu	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

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



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

Wir	e 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		
PI				PP12	0								
1/0	53.5		1323G2					120062					
1	42.4		1323G1	1368 Series						1388G3			
2	33.6	N/A	1319			1387G1				1389G4	Single		
4	21.2		1319G4					1388G4					
6	13.3		1319G6										

NOTE: see website for the most current information.

All Data Subject to Change Without Notice 2024-0103 DS-PP120 REV 8 Your Best Connection™

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