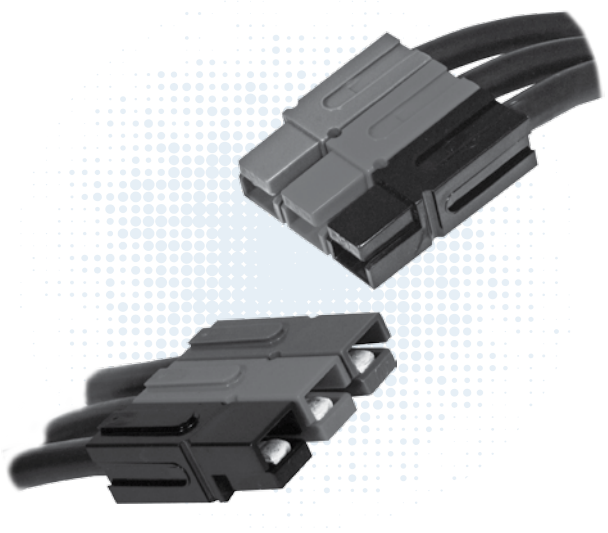
Powerpole® Connectors - PP120: up to 240 Amps



PP120 series Powerpole® housings are designed to accommodate up to 1/0 (50 mm²) wires and handle high currents up to 240 amps. Reducing bushings allow PP120 to accept down to #8 (10 mm²) wires. Multiple colors of stackable housings combine with APP®'s low resistance flat wiping technology to offer powerful connection capability.

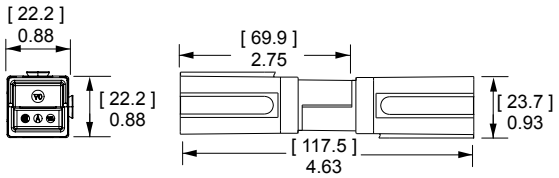
- **Large Wire Range Accommodates up to 1/0 (50mm²) Wire**
  Reducing bushings allow as small as #8 (10 mm²) wire to be used
- **Low Resistance Silver Plated Copper Contacts**
  Allows currents up to 240 amps
- **UL Rated for Hot Plugging up to 60 Amps**
  Great for battery or other applications where 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 [50mm²] or busbar contacts.

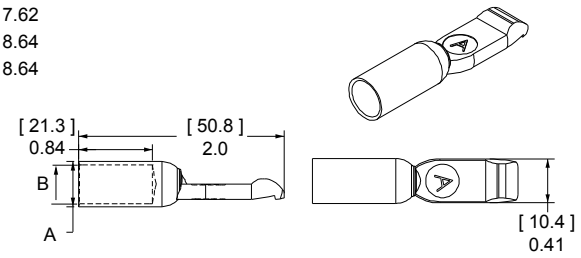
Description	-------- Part Numbers --------	
Minimum Quantity ...	500	50 .....
Red	1321G3-BK	1321G3
Green	1321G4-BK	1321G4
Black	1321G1-BK	1321G1
White	1321G2-BK	1321G2
Blue	1321-BK	1321
Gray	1321G8-BK	1321G8



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.

AWG	mm²	Mating Force	-------- Loose Piece Part Numbers --------			- A - inches	- A - mm	- B - inches	- B - mm
Minimum Quantity			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	Low	-	6811G6-BK	6811G6	0.44	11.18	0.22	5.59
2	33.6	High	-	1319-BK	1319	0.44	11.18	0.22	5.59
4	21.1	Low	-	6811G5-BK	6811G5	0.44	11.18	0.30	7.62
4	21.1	High	-	1319G4-BK	1319G4	0.44	11.18	0.30	7.62
6	13.3	Low	-	6811G4-BK	6811G4	0.44	11.18	0.34	8.64
6	13.3	High	-	1319G6-BK	1319G6	0.44	11.18	0.34	8.64



All Data Subject To Change Without Notice

| PP120 SPECIFICATIONS |

Electrical

	UL 1977	CSA
Current Rating Amperes[1]		
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		
250 cycles at 120V DC	60A	

Mechanical

Wire Size Range	**AWG**	**mm²**
	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
Contact	
Base	Copper Alloy
Plating	Silver
Contact Termination Methods	
Crimp[3]	Wire Contacts
Hand Solder	Wire Contacts

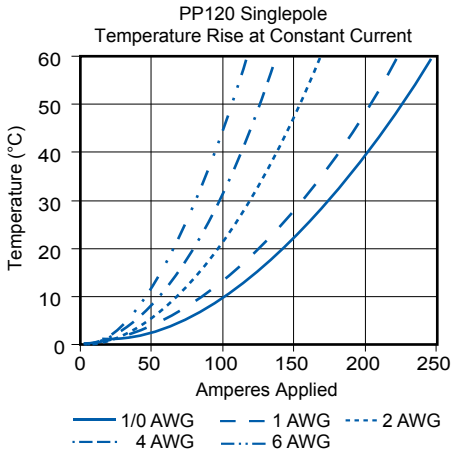
Protection

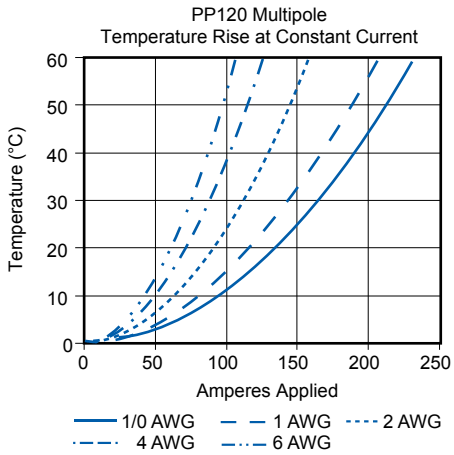
Touch Safety with Wire Contacts	
IEC 60529	IP10

[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.

c US File No. E26226 © CSA Certified File No. LR25154

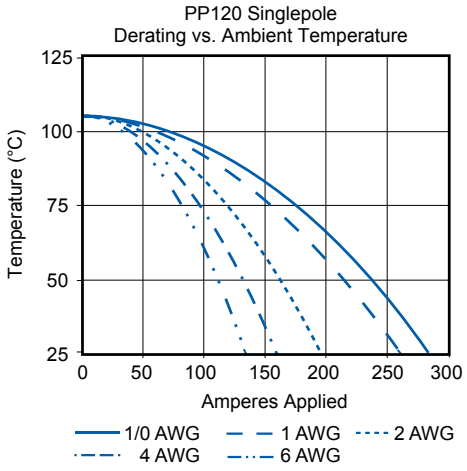
| PP120 TEMPERATURE CHARTS |

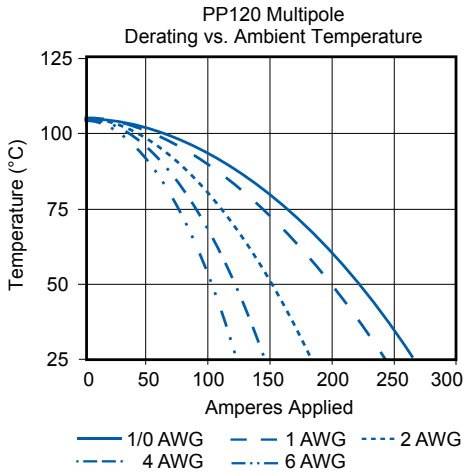




NOTE: Temperature rise charts are based on a 25°C ambient temperature.

Derating charts on the following page.



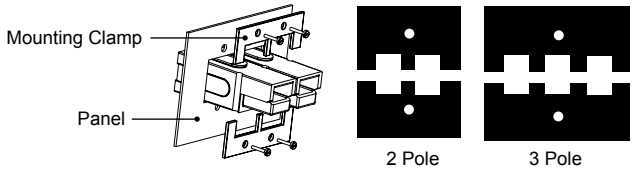


| Powerpole® PP120 Accessories |

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.

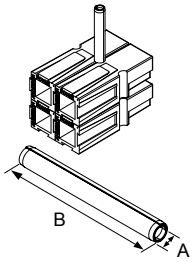
Description	- Part Numbers -
Minimum Quantity ...	20 sets of 2 .....
2 Pole	1464G1
3 Pole	1464G2



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.

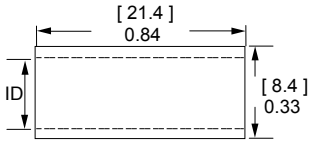
			Dimensions			
			- A -		- B -	
Description	----- Part Numbers -----		inches	mm	inches	mm
Minimum Quantity ...	1,000	100	.....			
1 Block High	111812P7	110G19	0.196 / 0.207	4.98 / 5.26	0.560	14.220
2 Block High	111812P8	110G20	0.196 / 0.207	4.98 / 5.26	1.500	38.100



Reducing Bushings

Use with contact part number 1319-BK or 6811G6-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

					Dimensions - ID -	
Contact Barrel Size	Wire Size	--------- Part Numbers ---------			inches	mm
Minimum Quantity		2,000	1,000	100	.....	
#2 AWG [33.6 mm²]	#4 AWG [21.2 mm²]	5919-BK	-	5919	0.28	7.11
#2 AWG [33.6 mm²]	#6 AWG [16 mm²]	-	5920-BK	5920	0.23	5.84
#2 AWG [33.6 mm²]	#10 - 8 AWG [5.3 - 8.4 mm²]	5921-BK		5921	0.18	4.57



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



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Powerpole®
- Tooling Information

Wire Size		Loose Piece Part Numbers		Loose Piece Contact Crimp Tool					Reeled Part Numbers		Reeled Contact Crimp Tools		
AWG	mm²	Tin Plating	Silver Plating	Hand Tool or	Pneumatic Bench Tool	+ Die	+ Locator	Number of Crimps	Tin Plating	Silver Plating	ATS Applicator	ATS Press	Air Feed Kit*
PP15 / 45 Flat Wiping Power & Ground													
16 / 20	1.3 / 0.52	N/A	1332	1309G2 or 1309G8	1367G1	N/A	N/A	Single	N/A	N/A	N/A	N/A	N/A
12 / 16	3.3 / 1.3	N/A	1331										
16 / 20	1.3 / 0.52	262G1-LPBK	262G2-LPBK		N/A				262G1	262G2	1385519-1	1725900-2 or [3-54500-1]	1424266-1 or [354578-1]
16 / 20	1.5 / 0.52	200G2L-LPBK	200G4L-LPBK						200G2L	200G4L	TBD		
16 / 20	1.3 / 0.52	269G2-LPBK	N/A						269G2	N/A	1385519-1		
12 / 16	3.3 / 1.3	261G1-LPBK	261G4-LPBK	1309G3 or 1309G8					261G1	261G4	1385520-1		
10 / 14	5.3 / 2.1	261G2-LPBK	261G3-LPBK						261G2	261G3	1385458-1		
12 / 16	3.3 / 1.3	269G1-LPBK	N/A						269G1	N/A	1385520-1		
10 / 14	5.3 / 2.1	269G3-LPBK	N/A						269G3	N/A	1385458-1		
10 / 14	6.0 / 2.1	200G1L-LPBK	200G3L-LPBK	1309G6 or 1309G8					200G1L	200G3L	1385460-1		
10 / 14	6.0 / 2.1	201G1H-LPBK	201G3H-LPBK						201G1H	201G3H	1385460-1		
10 / 14	6.0 / 2.1	1830G1-LPBK	1830G2-LPBK						1830G1	1830G2	1385460-1		
PP75													
#6	13.3	N/A	1307	1309G4	1387G1	1388G6	1389G6	Single	265G5	N/A	1385523-1	2-565435-2	692655-1
			5900										
#8	8.4		5952										
#10 / 12	5.3 / 3.3		5953			1388G7			265G6		1385522-1	1725900-2 or [3-54500-1]	1424266-1 or [354578-1]
			5915										
PP120													
1/0	53.5	N/A	1323G2	1368	1387G1	1388G3	1389G4	Single	N/A		N/A		
#1	42.4		1323G1										
#2	33.6		1319			1388G4							
#4	21.2		1319G4										
#6	13.3		1319G6										
PP180													
3/0	85	N/A	1328G2	1368	1387G2	1303G12	1304G32	Double	N/A		N/A		
2/0	53.5		1328G1										
1/0	53.5		1382			1303G13							
#1	42.4		1347		1387G1	1388G3	1389G3	Single					
#2	33.6		1383		1387G2	1303G13	1304G32	Double					
#4	21.1		1384		1387G1	1388G3	1389G3	Single					
					1387G2	1303G13	1304G32	Double					
#6	13.3		1348		1387G1	1388G4	1389G3	Single					

* All ATS applicators for APP® contacts are air feed style, (except 1385870) and require the press to have an air feed kit installed.
NOTE: See website for the most current information.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Anderson Power Products:

1319-BK 1323G1 1321 1321-BK 1321G1 1321G1-BK 1321G2 1321G2-BK 1321G3 1321G3-BK 1321G4 1321G4-BK 1321G8 1321G8-BK