

Powerpole® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance. Powerpoles are stackable and color-coded for easy customization into multipole blocks.

The housings are modular and genderless. Powerpole® connectors provide 600 Volts continuous AC or DC operation. Wire sizes range from #2 to #8 AWG (33.6 to 8.4 mm²).

FEATURES

- Flat wiping contact system
Minimal contact resistance at high current, wiping action cleans contact surface during connection/disconnection
- Colored modular housings
Provides visual identification of proper mating connector
- Molded-in dovetails
Secures individual connectors into "keyed" assemblies which prevents misconnection with similar configurations



PRODUCT SPECIFICATIONS

Connector Model	PP120	Connector Model	PP120
UL Current Rating (Amperes)*	120*	Life	
UL Voltage Ratings (Volts)**	600*	a. No load (Contact/Disconnect Cycles)	To 10,000
Contact Barrel Wire Size (AWG)	#2 to #8	b. Under Load (Hot Plug 250 cycles @ 120V)	60A
(mm ²)	33.6 to 8.4	Avg. Connection/Disconnect (lbf)	8
Maximum Wire Insulation Diameter (inches)	0.600	Operating Temperature Range °C***	-20° to 105°
(mm)	15.24	°F	-4° to 221°
AVG Contact Resistance* (micro-ohms)	136	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	2200		
Contact Retention Force (lbf)	100		



* UL Rated for 65°C largest wire or cable size

** Both AC & DC Voltage

*** Contact factory for higher temperature rated connectors

ORDERING INFORMATION

Housing & 120 amp Contact

Part Number	Housing Color	Wire	
		AWG	sq. mm
1320	Blue	#2	33.6
1320G1	Black	#2	33.6
1320G2	White	#2	33.6
1320G3	Red	#2	33.6
1320G4	Green	#2	33.6

120 amp Contacts

Part Number	Description	Wire	
		AWG	sq. mm
1319	Individual	#2	33.6
1319G4	Individual	#4	21.2
1319G6	Individual	#6	13.3

Housings Only

Part Number	Description
1321	Blue housing
1321G1	Black housing
1321G2	White housing
1321G3	Red housing
1321G4	Green housing

Bushings

Part Number	Description	Wire	
		AWG	sq. mm
5919	Use with 1319	#2 to #4	33.6/21.2
5920	Use with 1319	#2 to #6	33.6/13.3
5921	Use with 1319	#2 to #8	33.6/8.4

Accessories

Part Number	Description
110G20	Retaining Pins, 2 high block of connectors
110G19	Retaining Pins, 1 high block of connectors

Tooling

Part Number	Description
1368	Hydraulic tool, #2 to #8
1387G1	Pneumatic tool, #2 to #8
1388G4	- die for #2 to #8
1389G4	- locator #2 to #8

Note: For additional colors please contact customer service

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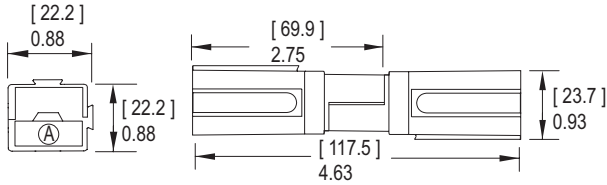
CHINA: IDEAL Anderson Technologies (Shenzhen) Ltd., Block A8 Tantou W. Ind. Par, Songgang Baoan District, Shenzhen, PR. China 51810 T: 86-755-2768-2118 F: 86-755-2768-2218

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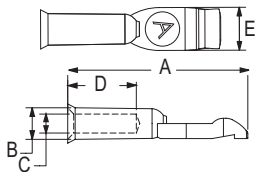
DIMENSIONS

Housing



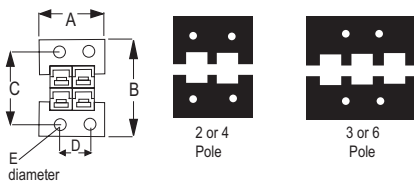
Contact

Part Number	-A-		-B-		-C-		-D-		-E-	
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
1319	50.8	2.00	11.1	0.44	8.7	0.34	21.6	0.85	10.4	0.41
1319G4	50.8	2.00	11.1	0.44	7.5	0.30	21.6	0.85	10.4	0.41
1319G6	50.8	2.00	11.1	0.44	5.6	0.22	21.6	0.85	10.4	0.41



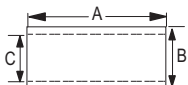
Mounting Clamps

Part Number	-A-		-B-		-C-		-D-		-E-		Number of Poles
	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
1464G1	60.5	2.38	47.7	1.88	38.1	1.50	44.5	1.75	4.0	0.16	(2 Pole)
1464G1	60.5	2.38	70.0	2.75	60.3	2.37	44.5	1.75	4.0	0.16	(4 Pole)
1464G2	82.6	3.25	47.7	1.88	38.1	1.50	66.7	2.63	4.0	0.16	(3 Pole)
1464G2	82.6	3.25	70.0	2.75	60.3	2.37	66.7	2.63	4.0	0.16	(6 Pole)

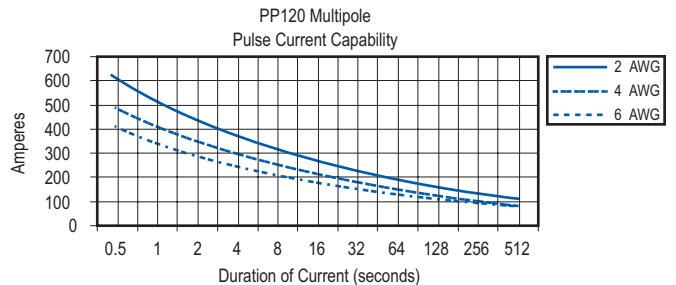
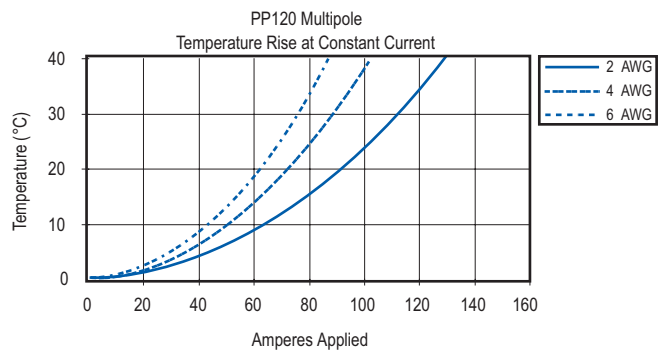
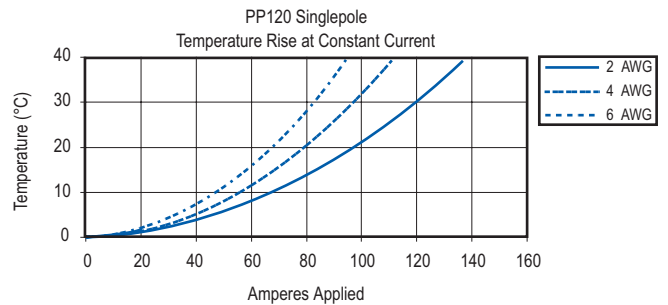


Bushings - (for use with 1319 contacts)

Part Number	Reduces From	-A-		-B-		-C-	
		mm	in.	mm	in.	mm	in.
5919	#2 to #4 AWG	21.4	.84	8.4	.33	7.2	.29
5920	#2 to #6 AWG	21.4	.84	8.4	.33	5.8	.23
5921	#2 to #8 AWG	21.4	.84	8.4	.33	4.6	.18



TEMPERATURE RISE CHARTS

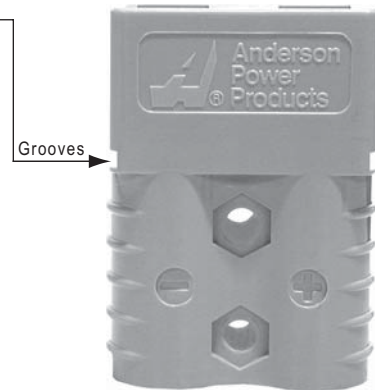


The innovative SB[®] connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 pole connector is available with a 120 amp rating, 600 Volts continuous AC or DC operation. There are SB[®] connectors for many applications and wire sizes, #2 to #6 AWG (33.6 to 13.3 mm²). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

FEATURES

- Molded side grooves
Allows for a secure panel mounting fit
- Mechanical keyed housings
Prevents accidental mating of components operating at different voltage levels
- Single-piece housing and unitized construction
Provides industrial quality and durability



PRODUCT SPECIFICATIONS

Connector Model	SB [®] 120	Connector Model	SB [®] 120
UL Current Rating (Amperes)*	120*	Life	
UL Voltage Ratings (Volts)	600*	a. No load (Contact/Disconnect Cycles)	To 10,000
Contact Barrel Wire Size (AWG)	#2 to #6	b. Under Load (Hot Plug 250 cycles @ 120V)	60A
(mm ²)	33.3 to 13.3	Avg. Connection/Disconnect (lbf)	20
Maximum Wire Insulation Diameter (inches)	0.575	Operating Temperature Range °C**	-20° to 105°
(mm)	14.6	°F	-4° to 221°
AVG Contact Resistance* (micro-ohms)	136	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	2200		
Contact Retention Force (lbf)	100		

* UL Rated for 75°C largest wire or cable size
** Contact factory for higher temperature rated connector
SB[®], UL and CSA Reference: This equipment is an Underwriters Laboratories Inc[®] recognized component. It is also listed by the Canadian Standards Association as certified.

ORDERING INFORMATION

2 Pole Housing & 120 amp Contacts

Part Number	Housing Color	Wire	
		AWG	sq. mm
6800G1	Gray	#2	33.6
6801G1	Blue	#2	33.6
6802G1	Red	#2	33.6
6800G2	Gray	#4	21.1
6801G2	Blue	#4	21.1
6802G2	Red	#4	21.1
6800G3	Gray	#6	13.3
6801G3	Blue	#6	13.3
6802G3	Red	#6	13.3

Housing Only

Part Number	Description
6810G1	Gray housing
6810G2	Blue housing
6810G3	Red housing

120 amp Contacts

Part Number	Description	Wire	
		AWG	sq. mm
6811G1	Contact set (2)	#2	33.6
6811G2	Contact set (2)	#4	21.1
6811G3	Contact set (2)	#6	13.3
120BBS	Bus Bar	N/A	N/A

Bushings

Part Number	Description	Wire	
		AWG	sq. mm
5919	Use with 6811G1	#2 to #4	33.6/21.2
5920	Use with 6811G1	#2 to #6	33.6/13.3
5921	Use with 6811G1	#2 to #8	33.6/8.4

Accessories

Part Number	Description
SB120-HDL-RED	SB handle with hardware-red
981G1	Cable clamp for 2 single conductor cables
110G57	Lock nut for use with Bus bar contact
134G4	Dust cover, red
1467G1	Panel mount bracket, set (2)
981G2	Twin conduit cable clamp

Tooling

Part Number	Description
1368	Hand tool - #2 to #8
1387G1	Pneumatic tool - #2 to #8
1388G4	- die for #2 to #8
1389G4	- locator #2 to #8

Note: For additional colors please contact customer service

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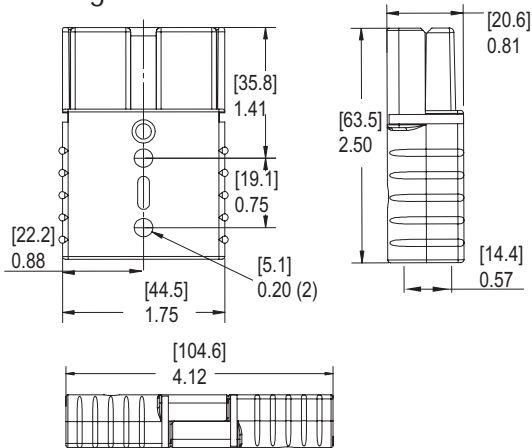
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DIMENSIONS

Housing

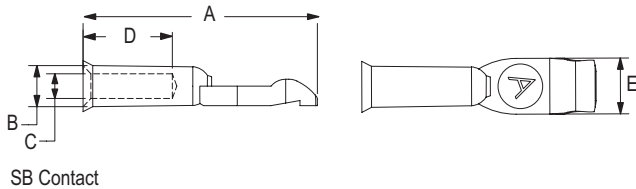


Contacts

Part Number	-A-	-B-	-C-	-D-
	mm in.	mm in.	mm in.	mm in.
6811G1	50.8 2.00	11.1 0.44	8.7 0.34	21.6 0.85
6811G2	50.8 2.00	11.1 0.44	7.5 0.30	21.6 0.85
6811G3	50.8 2.00	11.1 0.44	5.6 0.22	21.6 0.85
120BBS	77.0 3.03	11.2 0.44	9.5 0.38	N/A #10-24Thd.

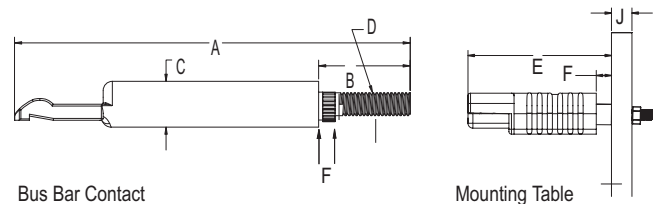
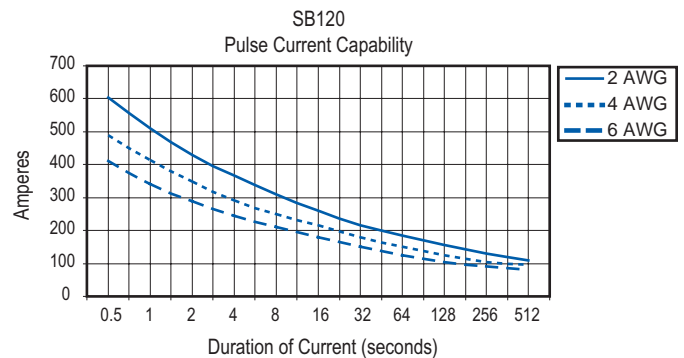
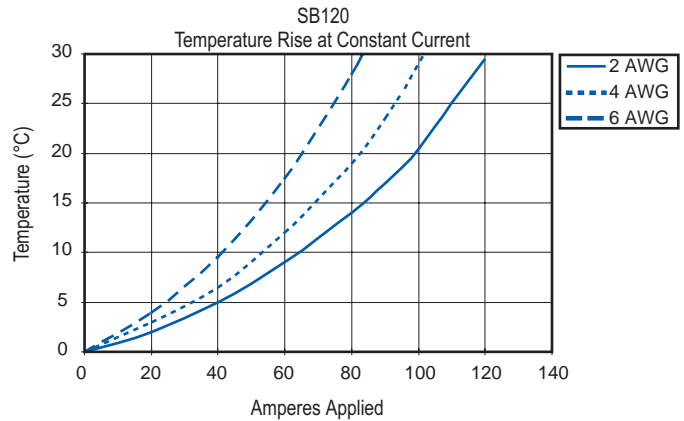
Part Number	Contact Detent	-E-	-F-	-J-	-K-
		mm in.	mm in.	mm in.	mm in.
6811G1	Low	10.4 0.41	N/A	N/A	N/A
6811G2	Low	10.4 0.41	N/A	N/A	N/A
6811G3	Low	10.4 0.41	N/A	N/A	N/A
120BBS	N/A	68.6 2.70	5.1 0.20	23.6 0.93	21.1 (min) 0.83(min)

Part Number	Contact Detent	-L-	-M-
		mm in.	mm in.
120BBS	N/A	7.37 0.29	6.35 0.25



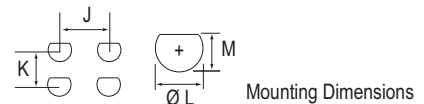
SB Contact

TEMPERATURE RISE CHARTS



Bus Bar Contact

Mounting Table



Mounting Dimensions