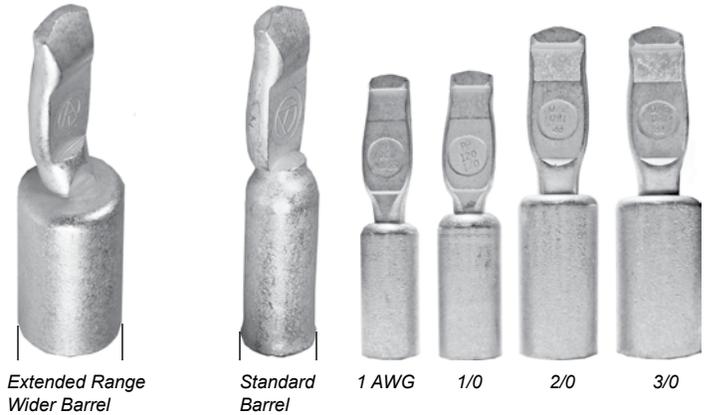


Designers are increasingly in need of greater current carrying capability without increasing size. The Extended Range Contact series meet this need by adding design flexibility and value to the SB120 and Powerpole 120 & 180 housings. Now these same connector housings are able to accommodate larger wire sizes and have increased amperage capability by up to 92%.

SB120 now accepts up to #1 AWG wire and is capable of 190 amps. PP120 is capable of 230 amps with the new 1/0 AWG contact. PP180 is now rated to 310 amps with 3/0 AWG wire. The availability of Extended Range Contacts are indicated on the connector data sheets by adding "Plus" to the connector model name (Example: SB120 Plus). See individual connector data sheets for more detailed specifications.



## SPECIFICATIONS

Connector Model	SB120	PP120	PP180	Connector Model	SB120	PP120	PP180
Current Rating (Amperes)*	190	230	310	Life			
Voltage Ratings (AC/DC)*	600	600	600	a. No Load (mating cycles)	10,000	10,000	10,000
Contact Barrel Wire Size (AWG)	#1 to #6	1/0 to #8	3/0 to #10	b. Under Load			
(mm <sup>2</sup> )	42.4 to 13.3	53.5 to 8.4	85.0 to 5.3	(Hot Plug 250 mating cycles @ 120V)	60A	60A	75A
Maximum Wire Insulation Diameter (inches)	0.575	0.600	0.900	Average Connection/Disconnect (lbf)	20	8	20
(mm)	14.6	15.24	22.86	(N)	89	36	89
Average Contact Resistance* (micro-ohms)	136	136	100	Operating Temperature (°C)**	-20° to 105°	-20° to 105°	-20° to 105°
Dielectric Withstanding Voltage (AC)	2,200	2,200	2,200	(°F)	-4° to 221°	-4° to 221°	-4° to 221°
Contact Retention Force (lbf)	100	100	170	Flammability Rating of Housing Material	UL94 V-0	UL94 V-0	UL94 V-0
(N)	445	445	756				



\* 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

### Extended Range Contacts for SB120, PP120 & PP180

Part Number	Description	- Wire - AWG	sq. mm
6811G7	For use with SB120 (set)	#1	42.4
1323G1	For use with PP120	#1	42.4
1323G2	For use with PP120	#1/0	53.5
1328G1	For use with PP180	2/0	67.4
1328G2	For use with PP180	3/0	85.0

### PP120 Housings Only

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

### PP180 Housings Only

Part Number	Description
1381	Blue housing
1381G1	Black housing
1381G2	White housing
1381G3	Red housing
1381G4	Green housing

### SB120 Housing Only

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

## Tooling

Contact Part Number	Pneumatic Bench Tool +	Die	Locator	Dieless or Hydraulic Tool
1323G1 (6811G7)	1387G1	1388G3	1389G3	1368
1323G2				
1328G1	1387G2	1303G4	1304G32	
1328G2		1303G12		

\* See individual product data sheets for additional technical information.

All Data Subject To Change Without Notice

14864 DS-EXTRNG REV01

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