

Extended Range Contacts SB[®] & Powerpole[®] Connectors

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.







Extended Range Wider Barrel

Standard Barrel

1 AWG 1/0 3/0

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) b. Under Load	10,000	10,000	10,000
Contact Barrel Wire Size (AWG) (mm ²)	#1 to #6 42.4 to 13.3	1/0 to #8 53.5 to 8.4	3/0 to #10 85.0 to 5.3	(Hot Plug 250 mating cycles @ 120V)	60A	60A	75A
Maximum Wire Insulation Diameter (inches) (mm)	0.575 14.6	0.600 15.24	0.900 22.86	Average Connection/Disconnect (lbf) (N)	20 89	8 36	20 89
Average Contact Resistance* (micro-ohms)	136	136	100	Operating Temperature (°C)** (°F)	-20° to 105° -4° to 221°	-20° to 105° -4° to 221°	-20° to 105 -4° to 221°
Dielectric Withstanding Voltage (AC)	2,200	2,200	2,200	Flammability Rating of Housing Material	UL94 V-0	UL94 V-0	UL94 V-0
Contact Retention Force (lbf)	100	100	170		010110	020110	010110
(N)	445	445	756				

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

ORDERING INFORMATION

	ded Range Con 3120, PP120 & P			PP120 Housi) ings Only	PP180 Housi) ings Only	SB12 Housi	0 ing Only
Part		- W	/ire -	Part		Part		Part	
Number	Description	AWG	sq. mm	Number	Description	Number	Description	Number	Description
6811G7	For use with SB120 (set)	#1	42.4	1321	Blue housing	1381	Blue housing	6810G1	Gray housing
1323G1	For use with PP120	#1	42.4	1321G1	Black housing	1381G1	Black housing	6810G2	Blue housing
1323G2	For use with PP120	#1/0	53.5	1321G2	White housing	1381G2	White housing	6810G3	Red housing
1328G1	For use with PP180	2/0	67.4	1321G3	Red housing	1381G3	Red housing		-
1328G2	For use with PP180	3/0	85.0	1321G4	Green housing	1381G4	Green housing		

Tooling

APP

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

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