



The innovative SB® connectors provide costeffective reliability, design flexibility and safety for your products' manufacture, installation and maintenance.

APP's 2 & 3 pole connectors are available with a 175 amp rating, 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, #4 to 1/0 AWG (21.1mm to 53.5mm). 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

Mechanical keyed housings

Prevents accidental mating of components operating at different voltage levels

Flat wiping contact system

Allows for minimal contact resistance at high current, wiping action cleans contact surface during disconnection

Genderless design

Makes assembly quick and easy and reduces number of parts stocked



PRODUCT SPECIFICATIONS

Connector Model	SB ®175	Connector Model	SB ®175
UL Current Rating (Amperes)*	175*	Life	
UL Voltage Ratings (Volts)	600*	a. No load (Contact/Disconnect Cycles) b. Under Load (Hot Plug 250 cycles @ 120V)	To 10,000 75A
Contact Barrel Wire Size (AWG)	#4 to 1/0	Avg. Connection/Disconnect (lbs)	35
(mm²)	21.1 to 53.5	Operating Temperature Range °C**	-20° to 105°
Maximum Wire Insulation Diameter (inches) (mm)	0.75 19.05	Flammability Rating of Housing Material	UL94 V-0
AVG Contact Resistance* (micro-ohms)	100		
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	* UL Rated for 65°C rated wire or cable size ** Contact factory for higher temperature rated connector	
Contact Retention Force (lbs)	300	SB®, UL and CSA Reference: This equipment is an Underwriters Laboratories I. It is also listed by the Canadian Standards Association as certified.	nc [®] recognized component.

ORDERING INFORMATION

2 Pole Housing & 175 amp Contacts				Housin Part	ousings Only				3 Pole Housing & 175 amp Contacts				
Part	Housing	W	ire	Number	Description			Part		Wii	е		
Number	Color	AWG	sq. mm	940	Gray			Number	Description	AWG	sq. mm		
6325G1	Gray	1/0	53.5	941	Blue			6316	Housing with springs	1/0	53.5		
6326G1	Blue	1/0	53.5	942	Orange				and 3 contacts				
6327G1	Orange	1/0	53.5	943 949	Yellow								
6328G1	Yellow	1/0	53.5	2-7252G11	Red Black, no voltage key			10000	sories				
6329G1	Red	1/0	53.5	2-1202011	Diack, no voltage key			ACCES	501165				
6325G5	Gray	#2	33.6	475	Cantasta			Part					
6326G5	Blue	#2	33.6	1/5 am	p Contacts				Description				
6327G5	Orange	#2	33.6	Part		Wir	·e	Number	Description				
6328G5	Yellow	#2	33.6	Number	Description	AWG	sq. mm	995G1	Handle, hardware & lo		Gray		
6329G5	Red	#2	33.6	944	Contact set (2)	1/0	53.5	995G3	Handle, hardware & lo		Red		
6325G6	Gray	#4	21.1	947	Contact set (2)	#2	33.6	923	Manual release, lockin	g nait with			
6326G6	Blue	#4	21.1	948	Contact set (2)	#4	21.1	924	clamps and hardware Manual release, moun	ting half with			
6327G6	Orange	#4	21.1	948G1	Contact set (2)*	#6	13.3	324	clamps and hardware	ung nan wiu	1		
6328G6	Yellow	#4	21.1	944G1 180BBS	Individual Bus bar contact	#1 N/A	42.4 N/A	110G56	Keps nut for use with E	Rus har cont	act		
6329G6	Red	#4	21.1	* Thin wall	שמש שמו כטוונמכנ	IN/A	IN/A	110000	Ropo hat for use with t	continued o			



SB®175 Connector

ORDERING INFORMATION

accessories continued

Part	
Number	Description
111197	Charger key
134G2	Dust cover
945	Cable clamps
945G3	Cable clamps-2 single conductor with hardware. Use with "A" frame only
946G1	Cable clamps-1 twin conductor with hardware. Use with "A" frame only

Bushings

Part		Wi	re
Number	Description	AWG	sq. mm
5648	Use with 1382	1/0 to #10	53.5/5.1
5663	Use with 1382	1/0 to #6	53.5/13.3
5687	Use with 1382	1/0 to #1	53.5/42.4
5690	Use with 1382	1/0 to #2	53.5/33.6
5693	Use with 1382	1/0 to #4	53.5/21.2

Tooling

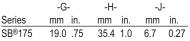
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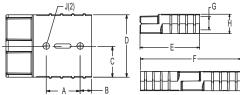
Number	Description
1368	Hand tool for 1/0 to #1 (53.5/42.4)
1387G1	Pneumatic tool
1388G3	- die for 1/0 to #1 (53.5/42.4)
1389G3	- locator for 1/0 to #1 (53.5/42.4)

DIMENSIONS

SB®175 Housing

	-A-		-B-		-C-		-D-		-E-		-F-	
Series	mm in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	
SB®175	28.5 1.13	11.0	.44	27.8	1.09	55.6	2.19	79.4	3.13	133.3	5.25	





Bushings - (for use with 944 contact)

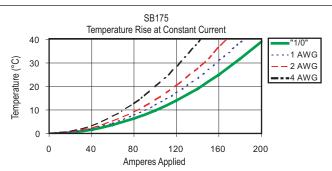
Part	Reduces	-A	-	-В	3-	-C	;-
Number	From	mm	in.	mm	in.	mm	in.
5648	1/0 to #10 AWG	25.4	1.0	10.85	.427	4.75	.188
5663	1/0 to #6 AWG	25.4	1.0	10.85	.427	5.55	.218
5687	1/0 to #1 AWG	25.4	1.0	10.85	.427	9.9	.39
5690	1/0 to #2 AWG	25.4	1.0	10.85	.427	8.7	.343
5693	1/0 to #4 AWG	25.4	1.0	10.85	.427	6.9	.287
Ċ	A † B B						

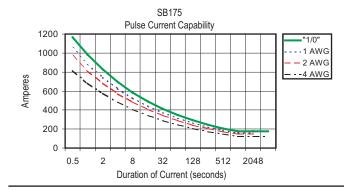




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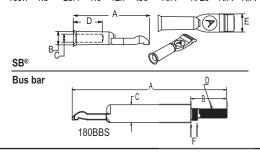
TEMPERATURE RISE CHARTS





SB®175 Contacts

Part	-A		-E	3-	-C	-	-D	-	-E	-	-F	_
Number	mm	in.	mm	in.	mm	in.	mm	in	mm	in.	mm	in.
944	59.6	2.35	13	.52	11.2	.44	26.4	1.04	12.7	.5	N/A	N/A
947	59.8	2.35	13	.51	8.9	.35	26.4	1.04	12.7	.5	N/A	N/A
948	59.7	2.35	13	.51	7.5	.3	26.4	1.04	12.7	.5	N/A	N/A
944G1	59.8	2.35	13	.51	9.9	.39	26.4	1.04	12.7	.5	N/A	N/A
948G1	53.3	2.1	9.3	.37	5.6	.22	20.3	.8	12.7	.5	N/A	N/A
180BBS	109.7	4.3	25.4	1.0	12.7	.50	N/A	1/4-20	N/A	N/A	4.6	.18



Bus bar Layout

	-	-J-		-L-		Λ-	-1 7		
Series	mm	in.	mm	in.	mm	in.	(~) M		
SB175	26.7	1.05	9.5	.38	3.4	0.14	-L-		

