



FEATURES

Mechanical keyed housings

Prevents accidental mating of components operating at different voltage levels

Single-piece housing and unitized construction

Provides industrial quality and durability

PCB mounted Quick disconnect

Avoids the need for unfastening ring type terminals

Straight and right angle terminal

Provides flexibility of parallel or perpendicular mounting to the PCB

Genderless design

Makes assembly quick and easy and reduces number of parts stocked

Flat wiping contact system

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

Silver plated contacts

Offers greater longevity when using high power, elevated temperature applications

UL approved for current interrupt

Safe for "Hot Plug" of battery power

Wide product range - for 50, 120, 175 and 350 amps

Allows versatility to choose product best suited to design requirements

UL94 V-0 housing material

Provides security in knowledge that the connector chosen meets strict UL flammability ratings

Recommended Voltage Key Color Code

Voltage	12V	18V	24V	36V	48V	72V	80V	96V	120V	144V
Color	Yellow	Orange	Red	Gray	Blue	Green	Black	Brown	Purple	White



PRODUCT RANGE

UL Current Rating (Amperes)*	50* to 350*
UL Voltage Ratings (Volts)	600*
Contact Barrel Wire Size (AWG)	#16 to 300 mcm
(mm²)	1.3 to 152.0
Maximum Wire Insulation Diameter (inches)	0.44 to 1.10
(mm)	11.2 to 27.9
AVG Contact Resistance*	200 to 50
(micro-ohms)	
Insulation Withstanding	2200
Test Voltage (Volts AC/DC)	
Contact Retention Force (lbf)	50 to 500
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug) Max Amps	
(250 cycles @ 120V)	50A to 100A
Avg. Connection/Disconnect (lbf)	15 to 35
Operating Temperature Range °C**	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0



- * UL Rated for 65°C largest wire or cable size
- ** Contact factory for higher temperature rated connectors

PRODUCT INFORMATION

Invented by Anderson Power Products®, the innovative SB® connectors provide cost-effective reliability, design flexibility and mistake-proof capability for your products' manufacture, installation and maintenance. APP's 2 & 3 pole connectors are available for 50, 120, 175 and 350 amp ratings for use to 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, #16 (1.3 mm²) to 300 mcm (152.0 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.

The housings are interchangeable and genderless interconnects. Insert contacts into housings and plug together for a clever, simple and low-cost solution to power interconnection. Low-detent contacts are also offered for low insertion/withdrawal force applications. Contacts are available in reeled and loose piece designs to support all production needs from very high volumes to engineering prototype and low-volume customized products.

Markets: UPS Systems, Telecommunications, Forklift Trucks, Wheelchairs, Electric Vehicles, Chargers, Power Electronics & Much More.



c 711 US File No. E26226

All Data Subject To Change Without Notice





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 50 amp rating, 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, #6 to #16 AWG (13.3 to 1.3 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

Mechanical keyed housings

Prevents accidental mating of components operating at different voltage levels

 Single-piece housing and unitized construction

Provides industrial quality and durability

Genderless design

Makes assembly quick and easy and reduces number of parts stocked



PRODUCT SPECIFICATIONS

Connector Model	SB ®50	Connector Model	SB [®] 50	
UL Current Rating (Amperes)*	50*	Life	T 40.000	
UL Voltage Ratings (Volts)	600*	a. No load (Contact/Disconnect Cycles) b. Under Load (Hot Plug 250 cycles @ 120V)	To 10,000 50A	
Contact Barrel Wire Size (AWG) (mm²)	#6 to #16 13.3 to 1.3	Avg. Connection/Disconnect (lbf)	10 - low detent 15 - high detent	
Maximum Wire Insulation Diameter (inches) (mm)	0.44 11.2	Operating Temperature Range °C**	-20° to 105° -4° to 221°	
AVG Contact Resistance*	200	Flammability Rating of Housing Material	UL94 V-0	
(micro-ohms) Insulation Withstanding Test Voltage (Volts AC/DC)	2200	**Contact factory for higher temperature rated connector		
Contact Retention Force (lbf)	50	SB [®] , UL and CSA Reference: This equipment is an Underwriters Laboratories Inc [®] recognized component is as 6 underwriters Laboratories Inc [®] recognized component is also listed by the Canadian Standards Association as certified.		

ORDERING INFORMATION

2 Pole Housing & 50 amp		Housin	Housings Only 50 amp contacts continu			tinued					
Conta	cts			Part				Part		W	ire
Part	Housing	Wi	rΩ	Number	Description			Number	Description	AWG	sq. mm
Number	Color	AWG	sq. mm	992	Gray			265G1	Reel, silver - HD	#6/8	13.3/8.4
6319	Gray	#6	13.3	992G1	Reď			265G2	Reel, silver - HD	#10/12	5.3/3.3
6319G1	Gray	#0 #10/12	5.3/3.3	992G2	Black			265G3	Reel, silver - LD	#6/8	13.3/8.4
	,	#10/12		992G4	Blue			265G4	Reel, silver - LD	#10/12	5.3/3.3
6331G1	Red		13.3	992G5	Yellow			265G5	Reel, tin - HD	#6/8	13.3/8.4
6331G2	Red	#10/12	5.3/3.3	992G6	Green			265G6	Reel, tin - HD	#10/12	5.3/3.3
6331G3	Black	#6	13.3	992G7	Orange			265G7	Reel, tin - LD	#6/8	13.3/8.4
6331G4	Black	#10/12	5.3/3.3	50 amn	Contacts*			265G8	Reel, tin - LD	#10/12	5.3/3.3
6331G5	Blue	#6	13.3	ou amp	Contacts			75BBS	Bus bar contact	N/A	N/A
6331G6	Blue	#10/12	5.3/3.3	Part		Wire)	73000	Dus Dai Contact	IN/A	IN/A
6331G7	Yellow	#6	13.3	Number	Description	AWG	sq. mm				
6331G8	Yellow	#10/12	5.3/3.3	903G1	Contact set (2) 5900	#6	13.3	Acces	sories		
6331G9	Green	#6	13.3	904G1	Contact set (2) 5915	#10/12	5.3/3.3				
6331G10	Green	#10/12	5.3/3.3	5900	Individual - ĤĎ	#6	13.3	Part			
6331G11	Orange	#6	13.3	1307	Individual - LD	#6	13.3	Number	Description		
6331G12	Orange	#10/12	5.3/3.3	5952	Individual - HD	#8	8.4	SB50-HD			
* LD - low detent or HD - high detent Note: For additional colors please contact customer service		5953 Individual - LD #10/12 5.3/3.3 5914 Individual - HD #10 5.26 5915 Individual - HD #10/12 5.3/3.3		134G1 990 990G2		ed & hardware, self , 2 single condu					



SB®50 Connector

ORDERING INFORMATION

accessories continued

н	

Number	Description
990G1	Cable clamp & hardware-screw mounting-2C
5905	Cable clamp-1 twin conductor with hardware
110G57	Lock nut for use with bus bar contact

Bushings

Part		Reduces F	From
Number	Description	AWG	sq. mm
5910	Use with 5900 or 1307	#6 to #10/12	13.3 to 5.3/3.3
5912	Use with 5900 or 1307	#6 to #8	13.3 to 8.4
5913	Use with 5900 or 1307	#6 to #14/16	13.3 to 2.1/1.3

Tooling

Part

Number	Description
1309G4	Hand tool
1387G1	Pneumatic tool
1388G6	 die for #6 to #16 AWG
1388G7	 die for #10 to #12 AWG
1389G6	 locator for #6 to #16 AWG
1389G7	 locator for #10 to #12 AWG
260G16	Applicator only (110V & 220V)
*	Applicator & Press (220V, 50Hz)
*	Press only (110V, 60Hz)

^{*} Consult factory

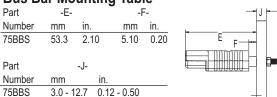
DIMENSIONS

Housing [48.0] 1.89 [81.3] [19.1] [11.5] 3.20 [3.7] 0.45 0.14 (2) [17.5] [15.9] [35.1] [6.4] -0.69 0.63 1.38_

Bus Bar Layout

Part	- J	-	- K -		- L	-	- M	-
Number	mm	in.	mm	in.	mm	in.	mm	in.
75BBS	19.1	0.75	17.3(min)	0.68(min)	6.73	0.265	2.92	0.115
K		+ Ø	M Mo	unting Dime	nsions			

Bus Bar Mounting Table



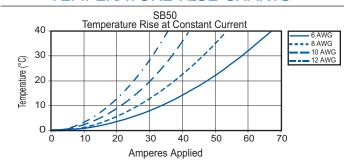


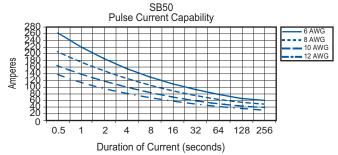


C 71 US File No. E26226

All Data Subject To Change Without Notice

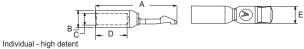
TEMPERATURE RISE CHARTS

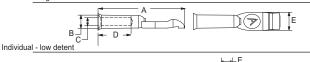




Contacts

Part	-A-	-B-	-C-	-D-	-E-
Number	mm in.	mm in.	mm in.	mm in	mm in.
1307	30.0 1.18	7.2 0.28	5.6 0.22	11.4 0.45	7.1 0.28
5900	30.0 1.18	7.2 0.28	5.6 0.22	11.4 0.45	7.1 0.28
5914	29.7 1.17	4.8 0.19	3.5 0.14	11.4 0.45	7.1 0.28
5915	30.0 1.18	7.2 0.28	3.5 0.14	11.4 0.45	7.1 0.28
5952	30.0 1.18	7.2 0.28	4.7 0.19	11.4 0.45	7.1 0.28
5953	30.0 1.18	7.2 0.28	3.5 0.14	11.4 0.45	7.1 0.28
904G1	30.0 1.18	7.2 0.28	3.5 0.14	11.4 0.45	7.1 0.28
903G1	30.0 1.18	7.2 0.28	5.6 0.22	11.4 0.45	7.1 0.28
265G1	31.8 1.25	9.1 0.36	9.1 0.36	22.9 0.90	8.1 0.32
265G2	31.8 1.25	7.4 0.29	6.9 0.27	22.9 0.90	8.1 0.32
265G3	31.0 1.22	9.1 0.36	9.1 0.36	22.9 0.90	8.1 0.32
265G4	31.0 1.22	7.4 0.29	6.9 0.27	22.9 0.90	8.1 0.32
265G5	31.8 1.25	9.1 0.36	9.1 0.36	22.9 0.90	8.1 0.32
265G6	31.8 1.25	7.4 0.29	6.9 0.27	22.9 0.90	8.1 0.32
265G7	31.0 1.22	9.1 0.36	9.1 0.36	22.9 0.90	8.1 0.32
265G8	31.0 1.22	7.4 0.29	6.9 0.27	22.9 0.90	8.1 0.32
75BBS	See Bus Bar	Section			







Reeled - low detent



SB[®]120 Connector

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
- unitized construction

Single-piece housing and

Provides industrial quality and durability



PRODUCT SPECIFICATIONS

					_
Connector Model		SB ®120	Connector Model	SB ®120	
UL Current Rating (Ampe	eres)*	120*	Life	To 10 000	
UL Voltage Ratings (Volts	3)	600*	a. No load (Contact/Disconnect Cycles) b. Under Load (Hot Plug 250 cycles @ 120V)	To 10,000 60A	
Contact Barrel Wire Size	(AWG) (mm²)	#2 to #6 33.3 to 13.3	Avg. Connection/Disconnect (lbf)	20	
Maximum Wire Insulation	,	0.575 14.6	Operating Temperature Range °C**	-20° to 105° -4° to 221°	
AVG Contact Resistance (micro-ohms)	*	136	Flammability Rating of Housing Material	UL94 V-0	
Insulation Withstanding Test Voltage (Volts AC/D	C)	2200	*UL Rated for 75°C largest wire or cable size ** Contact factory for higher temperature rated connector		
Contact Retention Force	(lbf)	100	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 & 120 amp **Contacts**

Part	Housing	W	ire	
Number	Color	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	Blué	#6	13.3	
6802G3	Red	#6	13.3	

Housing Only

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

120 amp Contacts

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

Bushings

Part		Wi	re
Number	Description	AWG	sq. mm
5919	Use with 6811G1		33.6/21.2
5920 5921	Use with 6811G1 Use with 6811G1		33.6/13.3 33.6/8.4
0021	OSC WILL OUT OT	# 2 10 #0	JJ.0/U.T

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

Note: For additional colors please contact customer service

Part

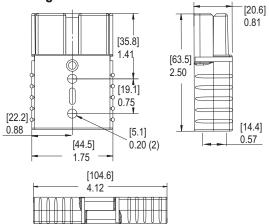


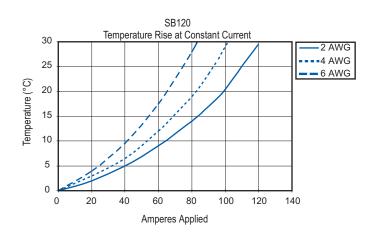
SB®120 Connector

DIMENSIONS

TEMPERATURE RISE CHARTS

Housing



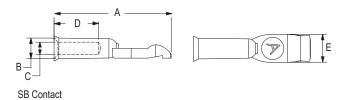


Contacts

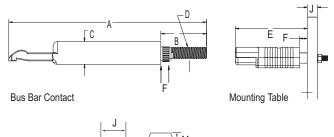
Part	-/-	١-	-E	}-	-0)-	-D	-
Number	mm	in.	mm	in.	mm	in.	mm	in.
6811G1	50.8	2.00	11.1	0.44	8.7	0.34	21.6	0.85
6811G2	50.8	2.00	11.1	0.44	7.5	0.30	21.6	0.85
6811G3	50.8	2.00	11.1	0.44	5.6	0.22	21.6	0.85
120BBS	77.0	3.03	11.2	0.44	9.5	0.38	N/A	#10-24Thd.

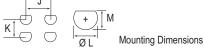
Part	Contact	-E	-	-F		-J	-	-K-	
Number	Detent	mm	in.	mm	in.	mm	in.	mm	in.
6811G1	Low	10.4	0.41	N/	Α	N/	A	N/A	
6811G2	Low	10.4	0.41	N/	Α	N/	A	N/A	
6811G3	Low	10.4	0.41	N/	Α	N/	A	N/A	
120BBS	N/A	68.6	2.70	5.1	0.20	23.6	0.93	21.1 (min)	0.83(min)

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











C\$11 US File No. E26226

All Data Subject To Change Without Notice



SB[®]175

The innovative SB® connectors provide cost-effective 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 (21.1 to 53.5mm²). 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 a. No load (Contact/Disconnect Cycles)	To 10.000
UL Voltage Ratings (Volts)	600*	b. Under Load (Hot Plug 250 cycles @ 120V)	75A
Contact Barrel Wire Size (AWG) (mm²)	#4 to 1/0 21.1 to 53.5	Avg. Connection/Disconnect (lbf)	25 (SB 2 Pole) 35 (SB 3 Pole)
Maximum Wire Insulation Diameter (inches) (mm)	0.75 19.01	Operating Temperature Range °C**	-20° to 105° -4° to 221°
AVG Contact Resistance* (micro-ohms)	100	Flammability Rating of Housing Material	UL94 V-0
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	* UL Rated for 65°C largest wire or cable size ** Contact factory for higher temperature rated connector	
Contact Retention Force (lbf)	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

Ooma	,,,			
Part	Housing	Wir	re	
Number	Color	AWG	sq. mm	
6325G1	Gray	1/0	53.5	_
6326G1	Blue	1/0	53.5	
6327G1	Orange	1/0	53.5	
6328G1	Yellow	1/0	53.5	
6329G1	Red	1/0	53.5	
6325G5	Gray	#2	33.6	
6326G5	Blue	#2	33.6	
6327G5	Orange	#2	33.6	
6328G5	Yellow	#2	33.6	
6329G5	Red	#2	33.6	
6325G6	Gray	#4	21.1	
6326G6	Blue	#4	21.1	
6327G6	Orange	#4	21.1	
6328G6	Yellow	#4	21.1	
6329G6	Red	#4	21.1	

Housings Only

Part	
Number	Description
940 941 942 943 949	Gray Blue Orange Yellow Red Black, no voltage key
2 7202011	black, no vokago koy

175 amp Contacts

Part	•	Wi	re
Number	Description	AWG	sq. mm
944	Contact set (2)	1/0	53.5
1382	Individual	1/0	53.5
947	Contact set (2)	#2	33.6
1383	Individual	#2	33.6
948	Contact set (2)	#4	21.1
1384	Individual	#4	21.2
948G1*	Contact set (2)	#6	13.3
1348*	Individual	#6	13.3
944G1	Contact set (2)	#1	42.4
1347	Individual	#1	42.4
180BBS	Bus bar contact	N/A	N/A

3 Pole Housing & 175 amp **Contacts**

Part	Housing	Wire		
Number	Color	AWG	sq. mm	
6316	Gray	1/0	53.5	
6316G9	Gray	#1	42.4	
6316G10	Grav	#2	33.6	

3 Pole Housing Only

Part	
Number	Description
902	Gray, springs & hardware

^{*} Thin wall Note: For additional colors please contact customer service



SB®175 Connector

ORDERING INFORMATION & DIMENSIONS

Accessories

Part	
Number	Description
995G1	Handle, hardware & lock washers - Gray
995G3	Handle, hardware & lock washers - Red
923	Manual release, locking half with
	clamps and hardware
924	Manual release, mounting half with
	clamps and hardware
110G56	Lock nut for use with Bus bar contact
SB175-lockout	Safety lockout
111197G1	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.

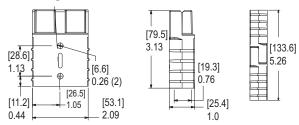
Bushings

Part		Wi	re
Number	Description	AWG	sq. mm
5648	Use with 944	1/0 to #10	53.5 to 5.1
5663	Use with 944	1/0 to #6	53.5 to 13.3
5687	Use with 944	1/0 to #1	53.5 to 42.4
5690	Use with 944	1/0 to #2	53.5 to 33.6
5693	Use with 944	1/0 to #4	53.5 to 21.2

Tooling

Part	
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)
1388G5	- die for #4
1389G5	- locator for #4
1389G3	- locator for 1/0 to #1 (53.5/42.4)
1303G4	- die for 1/0 to #4 (53.5/21.1)
1304G4	- locator for 1/0 to #4 (53.5/21.1)

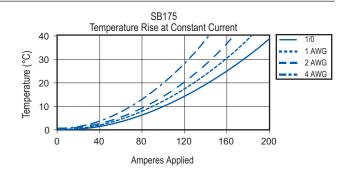
Housing



Bus Bar Mounting Table

Part	- E -	-F-		
Number	mm in.	mm i	n.	—+J
180BBS	88.9 3.50	10.2 (0.40	
				E F—
Part	- J -			
Number	mm	in.		
180BBS	5.0 -19.0	0.20 -0.75		4
© CSA File	Certified No. LR25154	c FL °us	File No. E26	S226 All Data Subject To Change Without Notice

TEMPERATURE RISE CHART





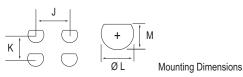
Contacts

Part	-A	\-	-E	3-	-()-	-D)_	
Number	mm	in.	mm	in.	mm	in.	mm	in.	
944	59.7	2.35	13.1	0.52	11.1	0.44	27.4	1.08	
947	59.7	2.35	13.1	0.52	8.9	0.35	27.4	1.08	
948	59.7	2.35	13.1	0.52	7.5	0.30	25.9	1.02	
944G1	59.7	2.35	13.1	0.52	9.9	0.39	27.4	1.08	
948G1	53.3	2.10	9.3	0.37	11.7	0.46	21.3	0.84	
180BBS	109.0	4.29	25.4	1.00	12.7	0.50	N/A	1/4-20Thd.	
Part	-E		-F-						

100000	103.0 4.23	20.4 1.0	0 12.7 0.50 N/A /4-2011ld.
Part	-E- _.	-F	
Number	mm in.	mm in.	
944	12.7 0.5	N/A	FE 5
947	12.7 0.5	N/A	↑ ∠
948	12.7 0.5	N/A	
944G1	12.7 0.5	N/A	
948G1	12.7 0.5	N/A	
180BBS	N/A	4.6 0.18	
			D
			♦ ♦
			CD® BUO Par B
			SB® Bus Bar

Bus Bar Layout

Part	- J -	- K -	- L-	- M -
Number	mm in.	mm in.	mm in.	mm in.
180BBS	26.8 1.05	26.8(min) 1.05(min)	9.53 0.375	3.43 0.135





SB[®]350

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 350 amp rating, 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, 2/0 AWG to 300 mcm (67.4 to 152.0 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

Mechanical keyed housings

Prevents accidental mating of components operating at different voltage levels

Single-piece housing and unitized construction

Provides industrial quality and durability

Genderless design

Makes assembly quick and easy and reduces number of parts stocked



PRODUCT SPECIFICATIONS

Connector Model	SB ®350	Connector Model SB ®350
UL Current Rating (Amperes)*	350*	Life
UL Voltage Ratings (Volts)	600*	a. No load (Contact/Disconnect Cycles) To 10,000 b. Under Load (Hot Plug 250 cycles @ 120V) 100A
Contact Barrel Wire Size (AWG) (mm²)	2/0 to 300 mcm 67.4 to 152.0	Avg. Connection/Disconnect (lbf) 30
Maximum Wire Insulation Diameter (inches)	1.10	Operating Temperature Range °C** -20° to 105° °F -4° to 221°
(mm)	27.9	Flammability Rating of Housing Material UL94 V-0
AVG Contact Resistance*	50	Traininability Teating of Troubing Waterial SEST V-0
(micro-ohms)		V APP
Insulation Withstanding Test Voltage (Volts AC/DC)	2200	* UL Rated for 65°C largest wire or cable size ** Contact factory for higher temperature rated connector
Contact Retention Force (lbf)	500	SB ⁰ , 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 & 350 amp **Contacts**

Part	Housing	Wire	
Number	Color	AWG	sq. mm
6320G1	Gray	2/0	67.4
6320G2	Gray	4/0	107.2
6320G4	Gray	300 mcm	152.0
6320G5	Gray	3/0	85.0
6321G1	Blue	2/0	67.4
6321G2	Blue	4/0	107.2
6321G4	Blue	300 mcm	152.0
6321G5	Blue	3/0	85.0
6322G1	Red	2/0	67.4
6322G2	Red	4/0	107.2
6322G4	Red	300 mcm	152.0
6322G5	Red	3/0	85.0
6323G1	Yellow	2/0	67.4
6323G2	Yellow	4/0	107.2
6323G4	Yellow	300 mcm	152.0
6323G5	Yellow	3/0	85.0

2 Pole Housing & 350 amp Contacts continued

Part		Wire	
Number	Description	AWG	sq. mm
6324G1	Green	2/0	67.4
6324G2	Green	4/0	107.2
6324G4	Green	300 mcm	152.0
6324G5	Green	3/0	85.0
6400G1	Orange	2/0	67.4
6400G2	Orange	4/0	107.2
6400G4	Orange	300 mcm	152.0
6400G5	Orange	3/0	85.0
	-		

Hausings Only

nousings Only				
Part				
Number	Color			
906	Gray			
912	Blue			
913	Red			

housings continued

Part		
Number	Color	
914	Yellow	
931	Green	
932	Orange	

Contacts

Part		Wire	
Number	Description	AWG	sq. mm
917	Contact set (2)	1/0	53.5
907	Contact set (2)	2/0	67.4
916	Contact set (2)	3/0	85.0
908	Contact set (2)	4/0	107.2
910	Contact set (2)	300 mcm	152.0
350BBS	Bus bar contact	N/A	N/A

Note: For additional colors please contact customer service



SB®350 Connector

ORDERING INFORMATION

Accessories

Part	
Number	Description
995G2	Handle & hardware-gray
995G4	Handle & hardware-red
919	Manual release-locking half-cable clamps, hardware & lock out spring
	for the battery
919G1	Mounting half-mounting half-hardware & lock out spring for battery
922G1	Mounting half-hardware for truck or charger
111197G1	Charger key
134G3	Dust cover
996G1	Cable clamps-2 single conductor with
	hardware
911	Cable clamps-2 single conductor, cables with hardware and steel handle
SB350-lockout	Safety lockout

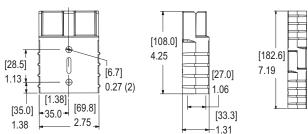
Bushings

Part		Wire	
Number	Description	AWG	sq. mm
5918	Use with 907	2/0 to 1/0	67.4 to 53.5

Tooling

Part	
Number	Description
1368	Hand tool for 1/0 to 300 mcm
1387G1	Pneumatic tool
1387G2	Pneumatic tool
1388G2	- die for 2/0 to 3/0
1389G2	- locator for 2/0 to 3/0
1388G1	- die for 4/0
1389G1	- locator for 4/0
1304G9	- loctor for 4/0
1303G3	- die for 4/0

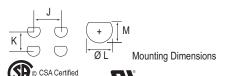
Housing



Bus Bar Layout

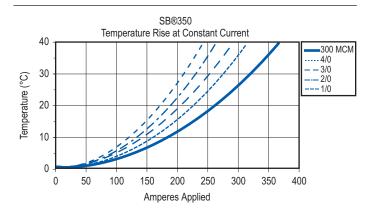
File No. LR25154

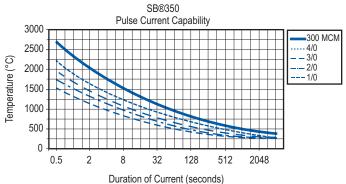
Part	- J -	- K -	- L-	- M -
Number	mm in.	mm in.	mm in.	mm in.
350BBS	34.9 1.38	33.8(min) 1.33	(min) 13.34 0.525	11.76 0.463



C 711 US File No. E26226 All Data Subject To Change Without Notice

TEMPERATURE RISE CHART

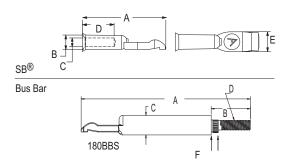




DIMENSIONS

SB® Contacts

Part	-4	۱-	-Е	3-	-C	;-	-0)_	-E	-
Number	mm	in.	mm	in.	mm	in.	mm	in	mm	in.
907	75.1	2.96	16.3	0.64	12.4	0.49	32.8	1.29	20.6	0.81
908	75.1	2.96	19.1	0.75	16.3	0.64	32.8	1.29	20.6	0.81
910	73.9	2.91	22.2	0.87	19.1	0.75	32.5	1.28	20.6	0.81
916	75.1	2.96	17.9	0.7	14.7	0.58	32.8	1.29	20.6	0.81
917	73.9	2.91	13	0.51	11.1	0.44	31.8	1.25	20.6	0.81
350BBS	131.7	5.19	22.3	0.88	17.0	0.67	N/A	#3/8-19Thd.	2.5	0.10



Bus Bar Mounting Table

Part	- E	-	-	F-	- J	-	₩ F
Number					mm	in.	F-E-F-
350BBS	113.0	4.45	5.1	0.20	3.0 -19.6	0.12 -0.77	

SB_a Connector Assembly Sheet

For all models: 50, 175 and 350 amperes

Two Pole Power Connectors with Single-piece Housings.



• Insulated Housings • Stainless Steel Springs • Silver and Tin Plated Contacts

ASSEMBLY INSTRUCTIONS

For installation by a qualified electrician in accordance with national and local electrical codes and the following instructions. The suitability of this type of termination must be evaluated by Underwriter's Laboratories, Inc. and Canadian Association for the end use application.

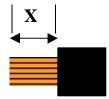
Assemble contacts to the cables according to the equipment manufacturer's assembly instructions. The following instructions are supplied as a reference.

Please note:

Instructions are included with each crimp tool for terminating specific contacts. Use of non-Anderson Power crimp can effect UL & CSA Approval.

- 1. Strip cable to dimensions in Table A.
- 2. * Crimp or solder contact to cable following Tables B, C and D.
- 3. Observing proper polarity, place contact in housing with notched side of tongue next to spring. (See cross section above).
- 4. Push contact and cable into housing until snaps over end of spring; tug slightly to make sure contact is locked into place.
 - * Soldering recommended for cables with solid or minimal conductor stranding (Ex. THHN type wire)

Table A: Cable Stripping Dimensions



Connector	"X"	"X"
Series	inches	mm
SB50	9/16	14
SB175	1-1/8	29
SB350	1-3/8	35

Table B: Recommended Soldering Techniques

Recommended Soldering Techniques

Use rosin flux solder only. Wrap cable strands. Melt solder into well, heat, and insert stripped cable. Continue heating well until solder flows into wore, being careful not to overflow onto contact surfaces. Do not solder-dip contacts. Cable clamps for solder connections to unsupported leads (required by Underwriter's Laboratories, Inc.) are listed on Table E (over).

Table C: Recommended Crimping Techniques

SB Crimping Tool	Connector Rating	Wire Sizes AWG	Wire Sizes mm	Tool Part Number
Manual, noncycle controlled U-type crimping tool (1)	50 amps	#12-6	4.0 - 16.0	1351G3
Manual, cycle controlled U-type crimping tool	50 amps	#16 - 6	1.5 - 16.0	1352G1
Pneumatic, cycle controlled 4-indent crimping tool	50, 175 or 350	#16 - 4/0	1.5 - 107.0	1387G1 (3)
Hydraulic, noncycle controlled 4-indent crimping tool amps	175 or 350	#10 - 4/0	6.0 - 107.0	1368

Notes: 1. Use appropriate Reducing Bushings for smaller cable sizes (Selected from table D).

- 2. For appropriate crimping die set, see APP® catalog or consult factory.
- 3. For high volume crimping (reeled contacts), see APP® catalog or consult factory.

PLEASE CONSULT YOUR AUTHORIZED ANDERSON REPRESENTATIVE FOR RECOMMENDED TERMINATION TOOLING.

Table D: Contact Well Reducing Bushing

Catalog Number	For Use With	AWG Wire Size
5912	SB50	#6 to #8
5910		#6 to #10 & #12
5913		#6 to #14 & #16
5687	SB175	1/0 to #1
5690		1/0 to #2
5693		1/0 to #4
5663		1/0 to #6
5648		1/0 to #10
5918	SB350	2/0 to 1/0

Table E: Cable Clamp Catalog Numbers

Connector Series	For Two Single Conductor Cables	For One Twin Conductor Cables	For Single Conductor with "A" Frame Handle
SB50	990 & 990G1	5905	
SB175	945	946G1	945G3
SB350	911	N/A	996G1

Disassembling Unmated SBa Housing Connector

Switch off power. Remove contacts by depressing springs at the front end of the connector with an insulated screwdriver having a 1/4" blade. Pull the contact lightly out of the housing.

RECOGNITION

Recognized under the Component Program of Underwriter's Laboratories, In.® File E26226, CSA Certified under Report LR25154. UL and CSA Reference.

PATENT INFORMATION

SB® connectors are covered by one or more of the following patents:

U.S. 241, 649; 2,838, 739; 3,654, 586; 3,909,099.

<u>Canada:</u> 598, 493; 651, 109; 923, 589. <u>United Kingdom:</u> 931,658; 1,295,598. <u>French Publication Number:</u> 2,084,951.

<u>France:</u> 71,09872. Other patents pending.

"SB" and "Anderson Power Products" are registered U.S. and foreign trademarks of Anderson Power Products, 13 Pratts Junction Road, P.O. Box 579, Sterling, MA 01564