SB®350 Connectors - up to 500 Amps



The SB®350 is the largest connector in the series with power capabilities up to 450 amps with 4/0 AWG wire and 500 amps with a 350 mcm wire. Wires ranging from #1/0 (53.5 mm²) to 350 mcm (150 mm²) fit into the one piece housing available in standard PC or a chemical resistant PBT/PC blend. Silver plated wire or busbar contacts minimize electrical resistance while offering supreme durability and reliability.

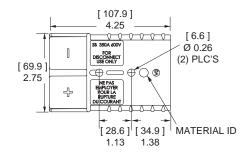
- Up to 350 mcm (150 mm²) Wires
 Allows UL rated currents up to 500 amps
- Chemical Resistant Housing Option
 Extends temperature range down to -40°C, while offering enhanced UV and chemical resistance
- Same Housings Used for Wire and Busbar Contacts
 Enables color-coded mechanically keyed wire to busbar connections

SB®350 ORDERING INFORMATION

SB®350 Standard Housings

The largest SB® housings work with wire contacts up to 350 mcm [150 mm²] as well as busbar contacts. GerBottom View derless design mates with itself. Mechanical keys are color coded. NOTE: SB®350 Black and Blue Housings have the same keying features and can be intermated.

Description	Part Numb	ers
Minimum Quantity	50	25
Yellow	914-BK	914
Orange	932-BK	932
Red	913-BK	913
Gray	906-BK	906
Blue	912-BK	912
Green	931-BK	931
Black	2-7250G8	-

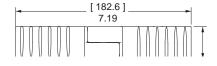


P = Chemical Resistant

SB®350 Chemical Resistant Housings

Same features as the Standard SB®350 but molded in a chemical resistant PBT/ PC blend. Suitable for use to -40°C.

Description	Part Nu	ımbers
Minimum Quantity	50	25
Red	P913-BK	P913
Grav	P906-BK	P906

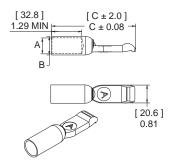


Mated Length

SB®350 Silver Plated Wire Contacts

Silver plated contacts offer superior electrical performance and durability up to 10,000 mating cycles. See reducing bushings in accessory section for smaller wires.

								Dimen	sions		
		Mating				- A	-	- B	-	- C	-
AWG	mm²	Force	- Loose P	iece Part	Numbers -	inches	mm	inches	mm	inches	mm
Minimum	Quantity		200	150	50						
300mcm	152	High	-	910-BK	910 *	0.75	19.05	0.87	22.10	3.04	77.2
4/0	107.2	High	908-BK	-	908 *	0.64	16.26	0.75	19.05	3.03	77.0
3/0	85	High	916-BK	-	916 *	0.58	14.73	0.70	17.78	3.00	76.2
2/0	67.4	High	907-BK	-	907 *	0.49	12.45	0.64	16.26	2.96	75.2
1/0	53.5	High	917-BK	-	917 *	0.44	11.18	0.51	12.95	2.91	73.9



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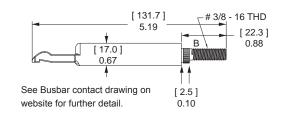
^{*} Sold as pairs. 2 parts shipped for every 1 part ordered.

SB®350 Silver Plated Busbar Contacts

Use 2 busbar contacts per housing to provide a quick disconnect input or output busbar connection. Busbar contacts are for mating with wire contacts only. Part number 350BBS includes lock nuts. Locknuts must be ordered separately for B01998P1.

Туре	Thread	Mating Force	- Loose Pie	ce Part Ni	umbers -
Minimum	Quantity		50	10	
Busbar	3/8-16	High	B01998P1	350BBS	
Lock Nut	3/8-16	-	H1216P9	110G73	

NOTE: Has not been tested by UL.



SB®350 CONNECTOR SPECIFICATIONS |

Electrical						
Current Rating Amperes ¹	UL 1977	CSA				
Wire to Wire (4/0 AWG) Wire to Wire (350 mcm)	450 500	325				
whe to whe (350 mcm)	300	323				
Voltage Rating AC/DC						
UL 1977	600					
Dielectric Withstanding Voltage						
Volts AC	2,200					
Avg. Mated Contact Resistance Milliohms	s ¹					
2 1/2" of 300mcm wire	0.050					
Hot Plug Current Rating Amperes - Wire & Busbar						
250 cycles at 120V DC	100A					

Materials	
Housing	
Standard Plastic Resin Chem. Resistant Resin Contact Retention Spring	Polycarbonate Polycarbonate / PBT blend Stainless Steel
Housing Flammability Rating	
UL94	V-0
Glow Wire	960°C (GWFI) / 800°C (GWIT)
Wire & Busbar Contacts 4	
Base	Copper Alloy
Plating	Silver
Contact Termination Methods	
Crimp ³	Wire Contacts
Hand Solder	Wire Contacts
Wrench / Socket	Busbar Contacts

•		
Mechanical		
Wire Size Range	AWG	mm²
Wire Contacts with Bushings	1/0 to 350 mcm	53.5 to 150
Max. Wire Insulation Diameter	in. 1.100	mm 27.900
Operating Temperature ² Standard Chemical Resistant	°F -4° to 221° -40 to 221°	° C -20° to 105° -40° to 105°
Mating Cycles No Load by Plating Wire and Busbar Contacts	Silver (Ag) 10,000	
Avg. Mating / Unmating Force 2 Pole	Lbf. 30	N 133
Min. Contact / Spring Retention Force lbf N	150 667	

NOTE 1: See IEC 60664-1 for working voltage.

- ¹ Based on: 105°C rated or better cable of the largest size, Properly calibrated APP recommended tooling, and a 25°C ambient temperature. UL rating not to exceed the maximum operating temperature. CSA rating below a 30°C temperature rise.
- ² Limited by the thermal properties of the connector plastic housing.
- ³ Use APP recommended tooling only. Alternate tools may adversely affect the performance of our connectors along with UL and CSA recognition.
- ⁴ Has not been tested by UL.









| IEC INFORMATION |

Connector Series	Configurations	Creepage/Clearance per IEC 60950-1	Material Group
SB®350	Unmated	5.66 mm	Illa
3D@33U	Mated	5.66 mm	ııla

Attributes	SB350
AMP Rating AC/DC	350
Voltage Rating AC/DC (Steady State)	500 V AC/DC (Operational)
Breaking Capacity - AMP Rating /Cycles	100 Amp / 10 cycles
Voltage Rating (Breaking Capacity)	125 VDC
Finger Safety - Mated only	IEC 60529 - IP20
Wire Size tested	120 mm²
Contact Series Tested	908
Climatic Testing (Cold, Heat & MFG)	IEC 60512 Test -11j, 11i & 11g,
Cycle Life	IEC 60512 Test 9a - 5000 Cycles
Mechanical Strength Impact	IEC 60512-5 @ 29.5 Inches - dropped 8 times
Temperature Range	-20 °C to 105 °C
	-4 °F to 221 °F

Protection

Touch Safety with Wire Contacts IEC 60529 IP10

NOTE 2: Refer to the Constructional Data form for additional information on our website., www.andersonpower.com

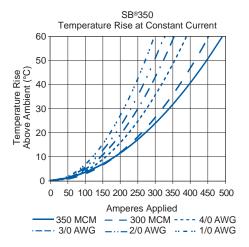


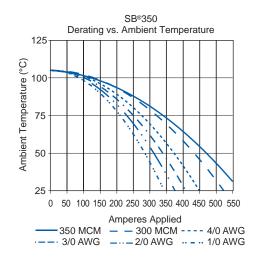


For Temperature Rise Above 60°C, Consult the Extended Temperature Rise Charts in the Appropriate Product Section on the Website.

Current - Temperature Derating per IEC 60512-5-2 Test 5B

SB®350 CONNECTOR TEMPERATURE CHARTS





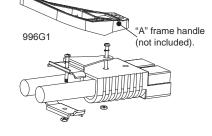
SB® 350 ACCESSORIES |

Cable Clamps

Durable metal cable clamps securely hold cables to prevent accidental strain or pulls from dislodging wire or contacts from the housing. Cable clamps are recommended for solder terminated wires.

	Cable Size			
	Min / Max	Min / Max		
Description	Inches O.D.	mm O.D.	- Part Numbers -	
Minimum Quantity			10	
Bolt On for Discrete Conductor	1.00 to 0.35	25.4 to 8.8	996G1	
Discrete Conductor w/ Integral Handle	0.76 to 0.32	19.3 to 8.2	911	

The given wire O.D. information is an estimate. Cable clamps should be evaluated for performance with the actual wire to be used.

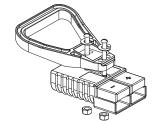


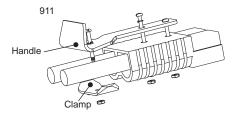
Handles

Handles are made out of durable PC plastic.

Hardware to attach to	connector body included	in ki
Description	Part Numbers	

Description	Part Numbers		
Minimum Quantity	100	25	
Gray Handle Kit	-	995G2	
Red Handle Kit	-	995G4	
Handle Only, Gray	3-5074P1	-	
Handle Only, Red	3-5074P3	-	
Handle Only, Black	3-5074P5	-	
Hardware Bag	-	106G7	



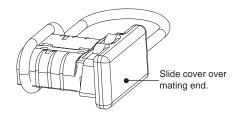


Dust Cover

Prevents dust and dirt from entering the mating interface of the connector when unmated. NOTE: Not a Hermetic Seal.

Description	Part Numbers	
Minimum Quantity	500	50
Dust Cover with Lanyard Strap, Red	113890P3	134G3

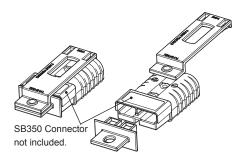
SB®350 Lockout





Works with standard lockout - tagout equipment to prevent access to the mating interface of the connector. Made from durable PC plastic.

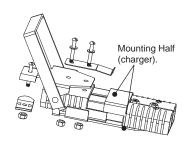
Description	Part Number
Minimum Quantity	25
Red Lockout - Tagout Kit	SB350-LOCKOLIT



Manual Release Bracket - Mounting Side

Works with the Locking Side to ease mating and unmating connectors.

Description	Part Numbers			
Minimum Quantity	66	25	10	
Bracket and Hardware Kit	-	-	922G1	
Bracket Only	B00229P1	-	-	
Hardware Bag	_	106G6	-	

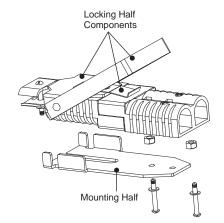


Manual Release Bracket - Locking Side with Cable Clamp

Works with the Mounting Side to ease mating and unmating connectors.

	Cable S		
	Min / Max	Min / Max	
Description	Inches O.D.	mm O.D.	- Part Numbers -
Minimum Quantity			10
Bracket and Hardware Kit w/ Clamp Kit			919

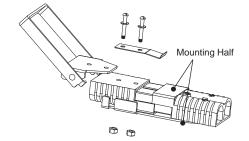
The given wire O.D. information is an estimate. Cable clamps should be evaluated for performance with the actual wire to be used.



Manual Release Bracket - Locking Side no Cable Clamp

Works with the Battery side to ease mating and unmating connectors.

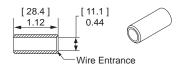
Description	- Part Numbers -
Minimum Quantity	10
Bracket and Hardware Kit No Clamp Kit	01001



Reducing Bushings: for Use with Contact # 907

Use with contact part number 907-BK to allow a smaller wire to be used with the connector. Electrical capability is derated with smaller wire.

Contact Barrel Size	Part Nu	ımbers	
Minimum Quantity		500	100
2/0 AWG [67 4 mm ²]	1/0 AWG [53.5 mm ²]	5918-RK	5918



$SB^{\mathbb{R}}$

- Tooling Information

Wire	Size	Loose Piece Part Numbers	Loose Piece Contact Crimp Tools				
AWG	mm²	Silver Plating	_	Pneumatic Bench Tool	+ Die +	Locator	Number of Crimps
			SB	® 50			
#6	13.3	1307					
		5900			1388G6	1389G6	
#8	8.4	5952	1309G4	1387G1			Single
#10 / 12	5.3 / 3.3	5953			1388G7	1389G7	
		5915					
			SB®	0120			
#1	42.4	1323G1			1388G3		
#2	33.6	1319	1368	1387G1		1389G4	Single
#4	21.2	1319G4	Series	100701	1388G4	100004	Olligio
#6	13.3	1319G6					
			SB®	0175			
1/0	53.5	1382					
#1	42.4	1347					
#2	33.6	1383	1368 Series	1387G2	1303G13	1304G32	Double
#4	21.1	1384					
#6	13.3	1348		1387G1	1388G4	1389G3	Single
	SB®350						
300mcm	152	910			N/A		
4/0	107.2	908	1368 Series		1303G3		
3/0	85	916		1387G2		1304G31	Double
2/0	67.4	907		130/62	1303G12	1304631	
1/0	53.5	917					

NOTE: See website for the most current information.