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

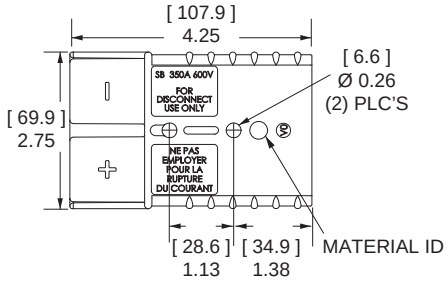
| SB®350 ORDERING INFORMATION |

SB®350 Standard Housings

The largest SB® housings work with wire contacts up to 350 mcm [150 mm²] as well as busbar contacts. Gen 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 Numbers ---	
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	-

Bottom View

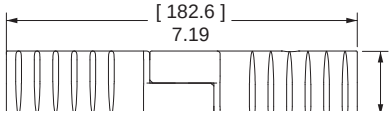


P = Chemical Resistant

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 Numbers ---	
Minimum Quantity	50	25 ....
Red	P913-BK	P913
Gray	P906-BK	P906

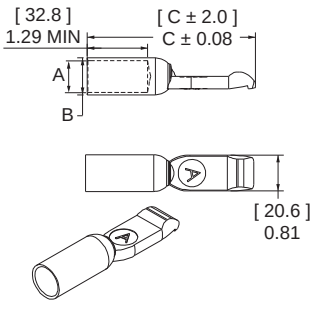


Mated Length

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.

AWG	mm²	Mating Force	- Loose Piece Part Numbers -			Dimensions - A - inches	mm	- B - inches	mm	- C - 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



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

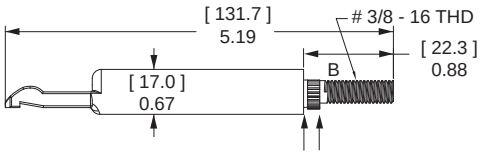
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SB®350 Silver Plated Busbar Contacts

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.

Type	Thread	Mating Force	- Loose Piece Part Numbers -	
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.



See Busbar contact drawing on website for further detail.

| SB®350 CONNECTOR SPECIFICATIONS |

Electrical

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

Mechanical

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

Materials

Housing	
Standard Plastic Resin	Polycarbonate
Chem. Resistant Resin	Polycarbonate / PBT blend
Contact Retention Spring	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

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.

c UL us File No. E26226 © CSA Certified File No. LR25154

| IEC INFORMATION |

Connector Series	Configurations	Creepage/Clearance per IEC 60950-1	Material Group
SB®350	Unmated	5.66 mm	IIIa
	Mated	5.66 mm	

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

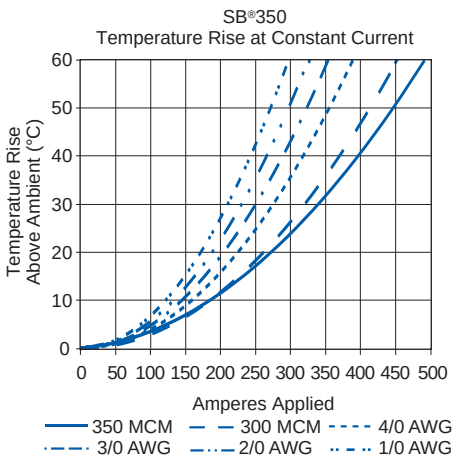
NOTE 2: Refer to the Constructional Data form for additional information on our website., www.andersonpower.com

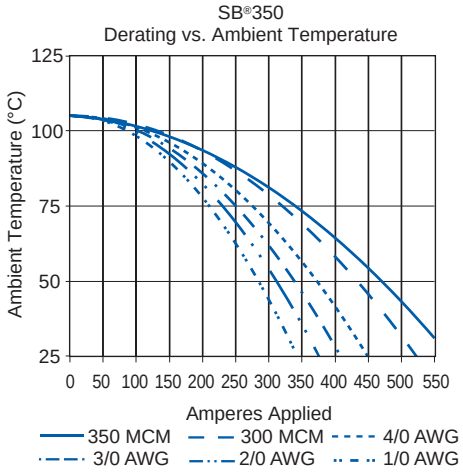
| SB®350 CONNECTOR TEMPERATURE CHARTS|

Temperature rise charts are based on a 25°C ambient temperature.

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



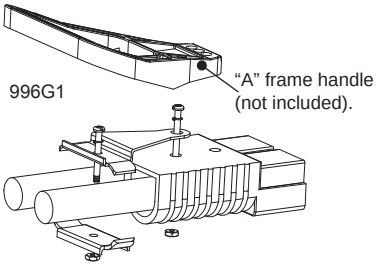


| SB® 350 ACCESSORIES |

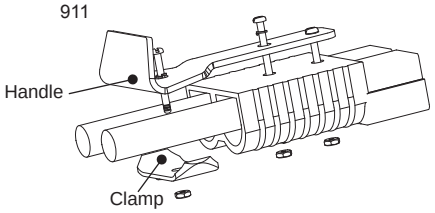
Cable Clamps

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.

Description	Cable Size Min / Max Inches O.D.	Min / Max 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



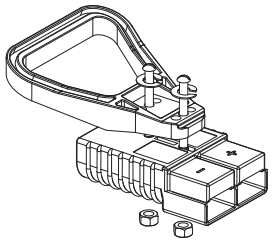
The given wire O.D. information is an estimate. Cable clamps should be evaluated for performance with the actual wire to be used.



Handles

Handles are made out of durable PC plastic.
Hardware to attach to connector body included in kits.

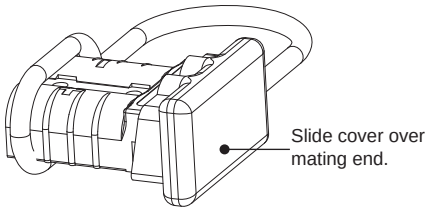
Description	----- Part Numbers -----	
Minimum Quantity	100	25 ...
Gray Handle Kit	-	995G2
Red Handle Kit	-	995G4
Handle Only, Gray	3-5074P1	-
Handle Only, Red	3-5074P3	-
Handle Only, Black	3-5074P5	-
Hardware Bag	-	106G7



Dust Cover

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

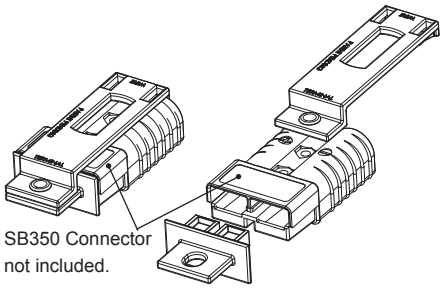
Description	----- Part Numbers -----	
Minimum Quantity	500	50 ...
Dust Cover with Lanyard Strap, Red	113890P3	134G3



SB®350 Lockout

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

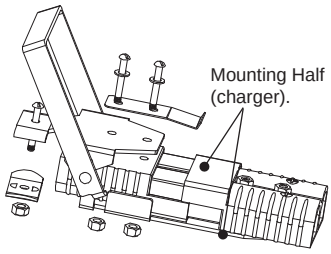
Description	--- Part Number ---
Minimum Quantity	25 .....
Red Lockout - Tagout Kit	SB350-LOCKOUT



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	-

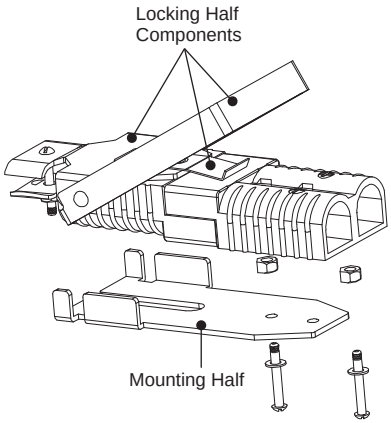


Manual Release Bracket - Locking Side with Cable Clamp

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

Description	Cable Size Min / Max Inches O.D.	Cable Size Min / Max mm O.D.	- Part Numbers -
Minimum Quantity			10 .....
Bracket and Hardware Kit w/ Clamp Kit	0.94 to 0.61	23.7 to 15.5	919

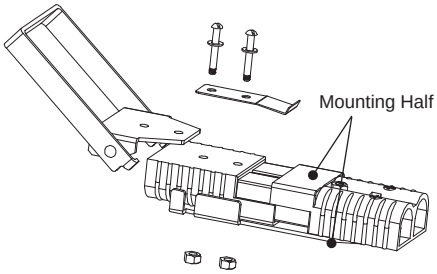
The given wire O.D. information is an estimate. Cable clamps should be evaluated for performance with the actual wire to be used.



Manual Release Bracket - Locking Side no Cable Clamp

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

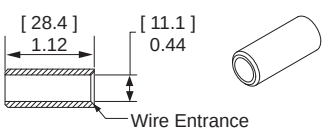
Description	- Part Numbers -
Minimum Quantity	10 .....
Bracket and Hardware Kit No Clamp Kit	919G1



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	Wire Size	--- Part Numbers ---	
Minimum Quantity		500	100 ...
2/0 AWG [67.4 mm²]	1/0 AWG [53.5 mm²]	5918-BK	5918



SB®
- Tooling Information

Wire Size		Loose Piece Part Numbers	Loose Piece Contact Crimp Tools				
AWG	mm²	Silver Plating	Hand Tool	Pneumatic Bench Tool	Die	Locator	Number of Crimps
SB®50							
#6	13.3	1307	1309G4	1387G1	1388G6	1389G6	Single
		5900					
#8	8.4	5952					
#10 / 12	5.3 / 3.3	5953			1388G7	1389G7	
		5915					
SB®120							
#1	42.4	1323G1	1368 Series	1387G1	1388G3	1389G4	Single
#2	33.6	1319			1388G4		
#4	21.2	1319G4					
#6	13.3	1319G6					
SB®175							
1/0	53.5	1382	1368 Series	1387G2	1303G13	1304G32	Double
#1	42.4	1347					
#2	33.6	1383					
#4	21.1	1384					
#6	13.3	1348		1387G1	1388G4	1389G3	Single
SB®350							
300mcm	152	910	1368 Series	N/A			Double
4/0	107.2	908		1387G2	1303G3	1304G31	
3/0	85	916			1303G12		
2/0	67.4	907					
1/0	53.5	917					

NOTE: See website for the most current information.

All Data Subject To Change Without Notice

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Anderson Power:

261G3 992-BK NS-240 1327G8-BK 134G1 201G1H-LPBK 3-6037P1 6322G6 PC5930T-BK SBSMINI045BLU 1204G1-BK 200G1L-LPBK 6329G5 SC12-SN 115G1 914 941-BK 995G2 5687-BK 6385G1 75LOKBLK 993G1 SBS50BLU-BK 1321 6322G1 6331G5 995G4 1327G6-BK 2-8171G5 2003G1-LPBK