

SB®350 Connectors

- up to 450 Amps



| SB®350 ORDERING INFORMATION |

SB®350 Standard Housings

The largest SB® housings work with wire contacts up to 300 mcm [150 mm²] as well as busbar contacts. Genderless design mates with itself. Mechanical keys are color coded. NOTE: SB350 Black and Blue Housings have the same keying features and can be intermixed.

Description	Code	Voltage		Color	--- Part Numbers ---
		50	25		
Minimum Quantity					
Yellow	12V	914-BK	914		
Orange	18V	932-BK	932		
Red	24V	913-BK	913		
Gray	36V	906-BK	906		
Blue	48V	912-BK	912		
Green	72V	931-BK	931		
Black	80V	2-7250G8	-		

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	Code	Voltage		Color	--- Part Numbers ---
		50	25		
Minimum Quantity					
Red	24V	P913-BK	P913		
Gray	36V	P906-BK	P906		

The SB®350 is the largest connector in the series with power capabilities up to 450 amps with 4/0 wire. Wires ranging from #1/0 (50 mm²) to 300 mcm (152 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 300 mcm (152 mm²) Wires**

Allows UL rated currents up to 450 amps with 4/0 wire

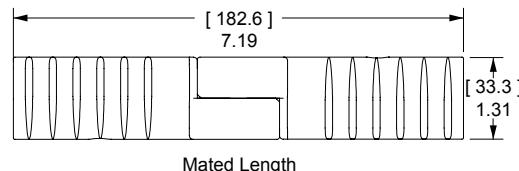
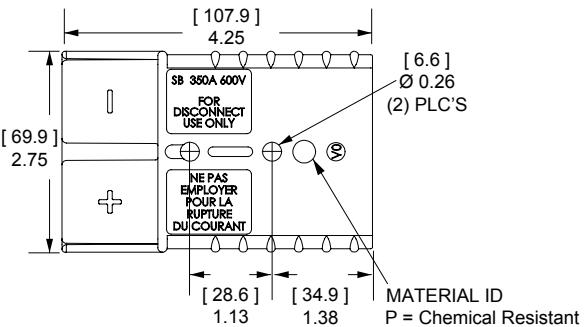
- **Chemical Resistant Housing Option**

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

Bottom View

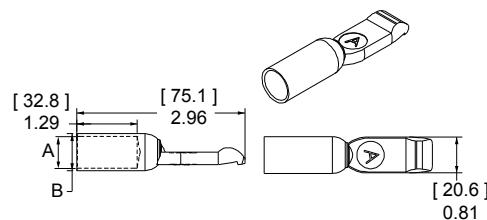


SB®350 Silver Plated Wire Contacts

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	mm ²	Mating Force	Dimensions		
			- Loose Piece Part Numbers -		- A -
Minimum Quantity			200	150	50
300mcm	152	High	-	910-BK	910 *
4/0	107.2	High	908-BK	-	908 *
3/0	85	High	916-BK	-	916 *
2/0	67.4	High	907-BK	-	907 *
1/0	53.5	High	917-BK	-	917 *

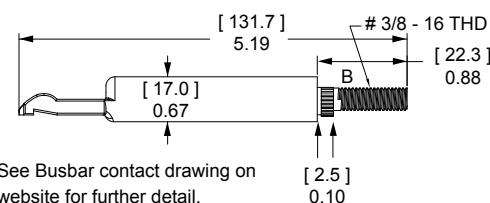


* Sold as pairs. 2 parts shipped for every 1 part ordered.

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.

Type	Thread	Mating Force	- Loose Piece Part Numbers -		
			50	10	
Busbar	1/4-20	High	B01998P1	350BBS	
Lock Nut	1/4-20	-	H1216P9	110G73	



See Busbar contact drawing on website for further detail.

| SB®350 CONNECTOR SPECIFICATIONS |

Electrical			
Current Rating Amperes¹	UL 1977	CSA	
Wire to Wire (4/0 AWG)	450	350	
Voltage Rating AC/DC			
UL 1977	600		
Dielectric Withstanding Voltage			
Volts AC	2,200		
Avg. Mated Contact Resistance Milliohms¹			
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	mm ²	
Wire Contacts with Bushings	1/0 to 300 mcm	53.5 to 152	
Max. Wire Insulation Diameter	in.	mm	
	1.100	27.900	
Operating Temperature²	°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			
Ibf	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		
Wire & Busbar Contacts			
Base	Copper Alloy		
Plating	Silver		
Contact Termination Methods			
Crimp ³	Wire Contacts		
Hand Solder	Wire Contacts		
Wrench / Socket	Busbar Contacts		

Protection	
Touch Safety with Wire Contacts	

IEC 60529

IP10

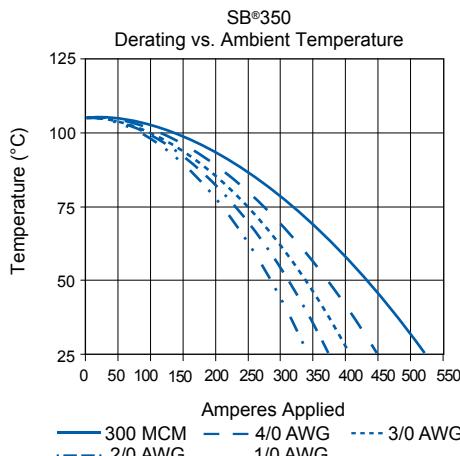
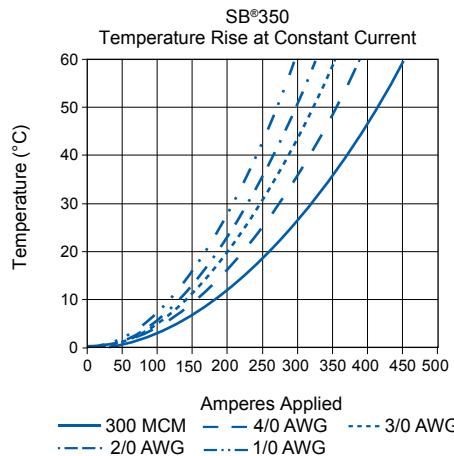
1 Based on: 105°C rated or better cable of the largest size, Properly calibrated APP® recommended tooling, and a 25°C ambient temperature. UL rating not to exceed the maximum operating temperature. CSA rating below a 30°C temperature rise.

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.



| SB®350 CONNECTOR TEMPERATURE CHARTS|



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

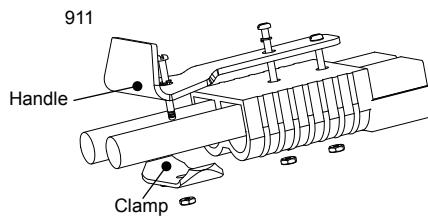
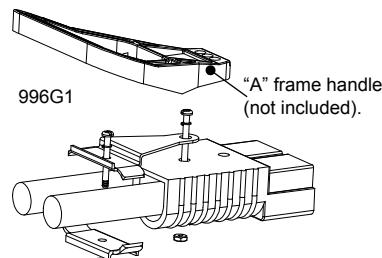
| SB® 350 Accessories |

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		- Part Number -
	Min / Max Inches O.D.	Min / Max mm O.D.	
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

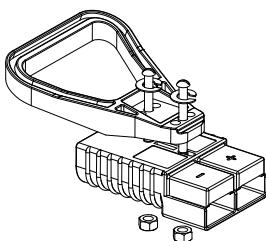
The given wire O.D. information is an estimate. Cable clamps should be evaluated for performance with the actual wire to be used.

**Handles**

Handles are made out of durable PC plastic.

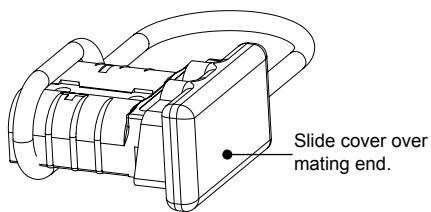
Hardware to attach to connector body included in kits.

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.

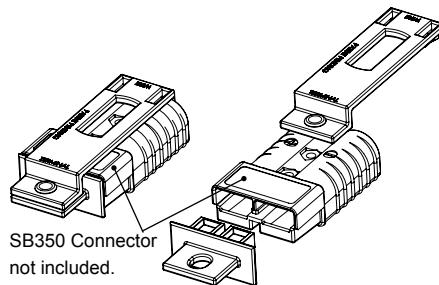
Description	----- Part Numbers -----	
Minimum Quantity	500	50
Dust Cover with Lanyard Strap, Red	113890P3	134G3



SB®350 Lockout

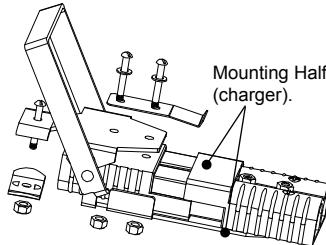
Works with standard lockout - tagout equipment to prevent access to the mating interface of the connector. Made from durable PC plastic.

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.

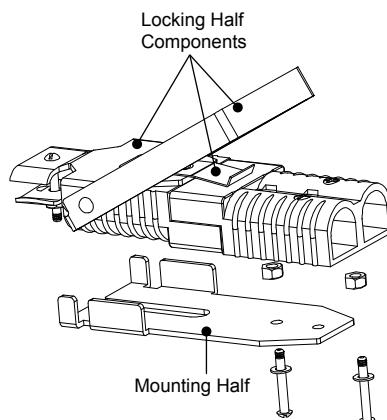
Description	----- Part Numbers -----		
Minimum Quantity	66	25	10 ...
Bracket and Hardware Kit	-	-	922G1
Bracket Only	B00229P1	-	-
Hardware Bag	-	106G6	-

**Manual Release Bracket - Locking Side with Cable Clamp**

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

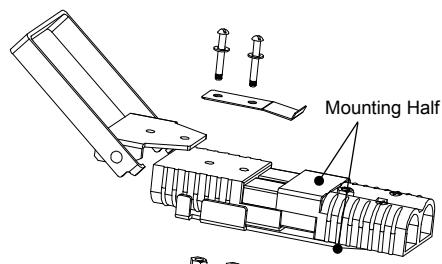
Description	Cable Size		- Part Numbers -
	Min / Max Inches O.D.	Min / Max mm O.D.	
Minimum Quantity		10	
Bracket and Hardware Kit w/ Clamp Kit	0.94 to 0.61	23.7 to 15.5	919

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**

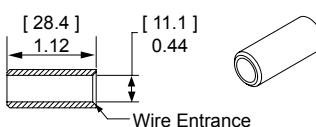
Works with the Battery side to ease mating and unmating connectors.

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 mm ²]	1/0 AWG [53.5 mm ²]	5918-BK	5918	



Wire Size		Loose Piece Part Numbers		Loose Piece Contact Crimp Tools					
AWG	mm ²	Silver Plating		Hand Tool	Pneumatic or Bench Tool	Die	Locator	Number of Crimps	
SB50									
#6	13.3	1307		1309G4	1387G1	1388G6	1389G6	Single	
		5900				1388G7			
	#8	8.4	5952		1387G1				
	#10 / 12	5.3 / 3.3	5953 5915						
SB120									
#1	42.4	1323G1		1368 Series	1387G1	1388G3	1389G4	Single	
#2	33.6	1319				1388G4			
#4	21.2	1319G4			1387G1				
#6	13.3	1319G6							
SB175									
1/0	53.5	1382		1368 Series	1387G2	1303G13	1304G32	Double	
#1	42.4	1347							
#2	33.6	1383							
#4	21.1	1384			1387G1	1388G4	1389G3		
#6	13.3	1348							
SB350									
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.

Mouser Electronics

Authorized Distributor

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Anderson Power Products:

[5918](#) [134G3](#) [2-7250G8](#) [906](#) [912](#) [913](#) [914](#) [919G1](#) [P906](#) [P913](#) [SB350-LOCKOUT](#) [916-BK](#) [917-BK](#) [908-BK](#)
[913-BK](#) [912-BK](#) [931-BK](#) [932-BK](#) [P906-BK](#)