SB350[®] Connectors - up to 450 Amps



| SB®350 ORDERING INFORMATION |

SB®350 Standard Housings

The largest SB $^{\circ}$ 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 intermated.

	Voltage		
	Color		
Description	Code	Part Numl	bers
Minimum Qua	antity	50	25
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.

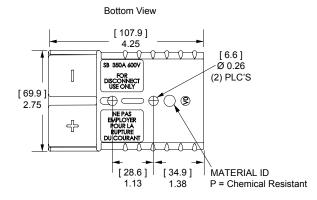
	Voltage		
	Color		
Description	Code	Part Nu	mbers
Minimum Qua	antity	50	25
Red	24V	P913-BK	P913
Gray	36V	P906-BK	P906

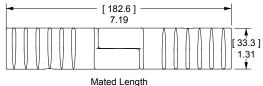
The SB[®]350 is the largest connector in the series with power capabilities up to 450 amps with 4/0 wire. Wires ranging from #1/0 (50 mm²) to 300 mcm (152 mm²) fit into the one piece housing available in standard PC or a chemical resistant PBT/PC blend. Silver plated wire or busbar contacts minimize electrical resistance while offering supreme durability and reliability.

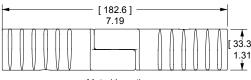
• Up to 300 mcm (152 mm²) Wires

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



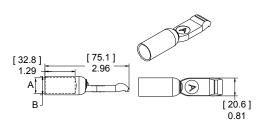




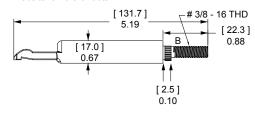
SB®350 Silver Plated Wire Contacts

Silver plated contacts offer superior electrical performance and durability up to 10,000 mating cycles.

							Dimen	sions	
		Mating				- A	-	- B	-
AWG	mm²	Force	- Loose F	Piece Part	Numbers -	inches	mm	inches	mm
Minimum	Quantity		200	150	50				
300mcm	152	High	-	910-BK	910	0.75	19.05	0.87	22.10
4/0	107.2	High	908-BK	-	908	0.64	16.26	0.75	19.05
3/0	85	High	916-BK	-	916	0.58	14.73	0.70	17.78
2/0	67.4	High	907-BK	-	907	0.49	12.45	0.64	16.26
1/0	53.5	High	917-BK	-	917	0.44	11.18	0.51	12.95



See Busbar contact drawing on website for further detail.



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.

		Mating			
Туре	Thread	Force	- Loose Pie	ce Part Numbers	-
Minimum	Quantity		. 50	10	
Busbar	1/4-20	High	B01998P1	350BBS	
Lock Nut	1/4-20	-	H1216P9	110G73	

| SB®350 CONNECTOR SPECIFICATIONS |

Electrical			Mechanical
Current Rating Amperes ¹	UL 1977	CSA	Wire Size Range
Wire to Wire (4/0 AWG)	450	350	Wire Contacts with Bushings
Voltage Rating AC/DC			Max. Wire Insulation Diameter
UL 1977	600		
Dielectric Withstanding Volta	age		Operating Temperature ²
Volts AC	2,200		Standard
A			Chemical Resistant
Avg. Mated Contact Resistar 2 1/2" of 300mcm wire	0.050		Mating Cycles No Load by Plating
	0.000		Wire and Busbar Contacts
Hot Plug Current Rating Amp	oeres - Wire & Busbar		
250 cycles at 120V DC	100A		Avg. Mating / Unmating Force
Materials			2 Pole
Housing			Min. Contact / Spring Retention For
Standard Plastic Resin	Polycarbonate		lbf
Chem. Resistant Resin	Polycarbonate / PB	T blend	Ν
Contact Retention Spring	Stainless Steel		Desta etile e
Housing Flammability Rating	a		Protection Touch Safety with Wire Contacts
UL94	V-0		IEC 60529 IP10
Wire & Busbar Contacts			¹ Based on: 105°C rated or better cabl
Base Copper Alloy			tooling, and a 25°C ambient tempera
Plating Silver			temperature. CSA rating below a 30°
			² Limited by the thermal properties of
Contact Termination Method	s		³ Use APP [®] recommended tooling only
Crimp ³	Wire Contacts		connectors along with UL and CSA r
Hand Solder	Wire Contacts		_
Wrench / Socket	Busbar Contacts		

Meenanical		
Wire Size Range	AWG	mm²
Wire Contacts with Bushings	1/0 to 300 mcm	53.5 to 152
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 For	се	
lbf	150	
Ν	667	
Protection		
Touch Safety with Wire Contacts		

ble of the largest size, Properly calibrated APP® recommended rature. UL rating not to exceed the maximum operating 0°C temperature rise.

f the connector plastic housing.

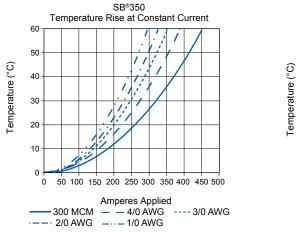
ly. Alternate tools may adversely affect the performance of our recognition.

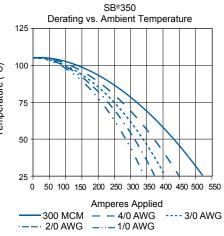






| SB®350 CONNECTOR TEMPERATURE CHARTS|





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

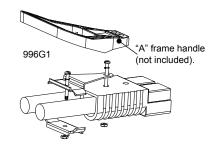
| SB® 350 Accessories |

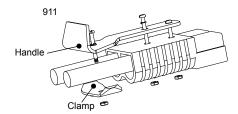
Cable Clamps

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.

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

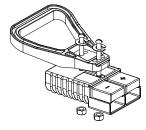




Handles

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-APP	995G2	
Red Handle Kit	995G4-APP	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 Nu	mbers
Minimum Quantity	500	50
Dust Cover with Lanyard Strap, Red	113890P3	134G3



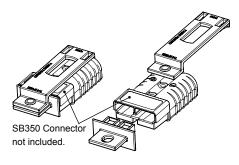
SB®350 Lockout

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

 Description
 ------ Part Numbers -----

 Minimum Quantity
 50
 25

 Red Lockout - Tagout Kit
 GA-350
 SB350-LOCKOUT



Manual Release Bracket - Mounting Side

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

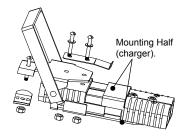
Description	Pa	rt Number	`S
Minimum Quantity	66	25	10
Bracket and Hardware Kit	-	-	922G1
Bracket Only	B00229P1	-	-
Hardware Bag	-	106G6	-

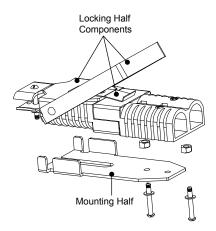
Manual Release Bracket - Locking Side with Cable Clamp

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	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.



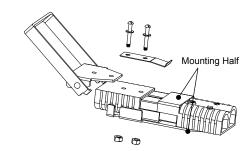


Manual Release Bracket - Locking Side no Cable Clamp

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

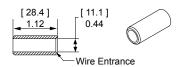
SECTION 3 SB[®] 350



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 Nu	mbers
Minimum Quantity		500	100
2/0 AWG [67.4 mm ²]	1/0 AWG [53.5 mm ²]	5918-BK	5918



SB[®] - Tooling Information

Wire Size Loose Piece Part Numbers		Loose Piece Contact Crimp Tools				Reeled Part Numbers	Reeled Contact Crimp Tools					
AWG	mm²	Silver Plating	Hand Tool or	Pneumatic Bench Tool	+ Die	+ Locator	Number of Crimps	Tin Plating	ATS Applicator	ATS Press	Air Feed Kit	
SB50												
#6	13.3	1307		1387G1	1388G6	1389G6	Single	265G5	1385523-1	2-565435-2		
#0	#0 13.3	5900									692655-1	
#8	8.4	5952	1309G4									
#10 / 12	53/33	5953			1388G7			265G6	1385522-1	1725900-2 or	1424266-1 or	
#10712	5.57 5.5	5915								[3-54500-1]	[354578-1]	
SB120												
#1	42.4	1323G1		1387G1	1388G3							
#2	33.6	1319	4000		1388G4	1389G4	Single	N/A	N/A			
#4	21.2	1319G4	1368									
#6	13.3	1319G6										
					SB	175						
1/0	53.5	1382		1387G2	1303G13	1304G32	Double					
1/0	53.5	1362		1387G1	1388G3	1389G3		N/A	N/A			
#1	42.4	1347					Single					
#0	22.0	4202	4000									
#2	33.6	1383	1368	1387G2	1303G13	1304G32	Double					
	#4 21.1	1384		1387G1	1388G3	1389G3	Single					
#4				1387G2	1303G13	1304G32	Double					
#6	13.3	1348		1387G1	1388G4	1389G3	Single					
					SE	3350						
300mcm	152	910		N/A Single								
4/0	107.2	908	1368	1387G2	1303G3	1304G31	Double	N/A	N/A			
3/0	85	916			1303G12							
2/0	67.4	907										
1/0	53.5	917										

NOTE: See website for the most current informatmion.