SB® 350 Connectors Up to 500 Amps



The SB* 350 is the largest connector in the series with power capabilities up to 500 amps with a 350 mcm wire. Wires ranging from 1/0 to 350 mcm (53.5 to 185 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 (185 mm²) Wires
 Allows UL rated currents up to 500 amps
- Chemical Resistant Housing Option

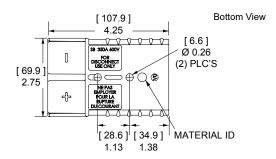
 Extends temperature range down to -40°C, while offering enhanced UV and chemical resistance
- Same Housings Used for Wire and Busbar Contacts
 Enables color-coded mechanically keyed wire to busbar connections

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. Genderless 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 Num	bers
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	-

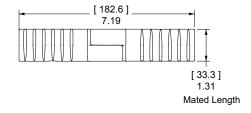


P = Chemical Resistant

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.

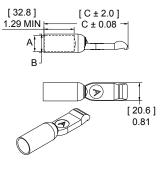
Description	Part Numbers		
Minimum Quantity	50	25	
Red	P913-BK	P913	
Gray	P906-BK	P906	



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.

		Mating				- A		Dimen		- C	_
AWG n	mm²	Force	Loose Pie	ece Part Nu	ımbers	inches	mm	inches	mm	inches	mm
Minimum Q	uantity		200	150	50						
350 mcm 1	185	High	-	910-BK	910 *	0.75	19.05	0.87	22.10	3.04	77.2
300 mcm 1	152	High	-	910-BK	910 *	0.75	19.05	0.87	22.10	3.04	77.2
4/0 1	107.2	High	908-BK	-	908 *	0.64	16.26	0.75	19.05	3.03	77.0
3/0 8	35	High	916-BK	-	916 *	0.58	14.73	0.70	17.78	3.00	76.2
2/0 6	67.4	High	907-BK	-	907 *	0.49	12.45	0.64	16.26	2.96	75.2
1/0 5	53.5	High	917-BK	-	917 *	0.44	11.18	0.51	12.95	2.91	73.9



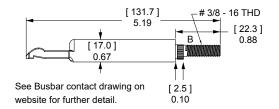
^{*} Sold as pairs. 2 parts shipped for every 1 part ordered.



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.

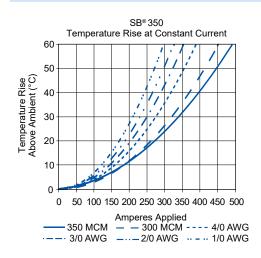
Туре	Thread	Mating Force	Loose Piece	Part Numbers
Minimum (Quantity		50	10
Busbar	3/8-16	High	B01998P1	350BBS
Lock Nut	3/8-16	_	H1216P9	110G73

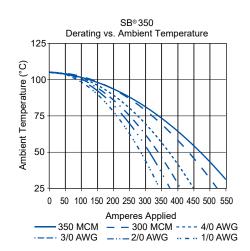


NOTE: Has not been tested by UL.

$SB^{\$}$ 350 CONNECTOR TEMPERATURE CHARTS - Temperature rise charts are based on a 25°C ambient temperature.

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





SB® 350 CONNECTOR SPECIFICATIONS

ELECTRICAL						
Current Rating Amperes ¹	UL 1977	CSA				
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 300 mcm 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 185
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.	N
	150	667

Specifications continued on next page

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.

IEC INFORMATION

Connector Series	Configurations	Creepage / Clearance per IEC 60950-1	Material Group	
CD® 2EO	Unmated	5.66 mm	IIIa	
SB® 350	Mated	5.66 mm	Illa	

PROTECTION

Touch Safety with Wire Contacts

IEC 60529 IP10 unmated



ATTRIBUTES	SB® 350
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 - 5,000 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



SB® 350 ACCESSORIES

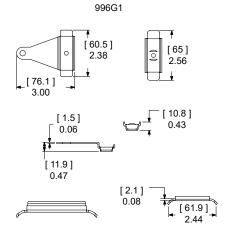
Cable Clamps *

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.

ioi soidei teililliated wires.				
	Cable Size			
	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	

* Torque value 50 (in - lbs) / 5.6 (Nm) NOTE: For assembly of clamp to housing only

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

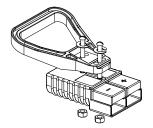


Handles *

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

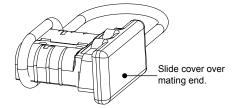
* Torque value 50 (in - lbs) / 5.6 (Nm) NOTE: For assembly of clamp to housing only



Dust Cover

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

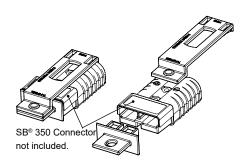
Description	Part Nu	mbers
Minimum Quantity	500	50
Dust Cover with Lanyard Strap, Red	113890P3	134G3



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



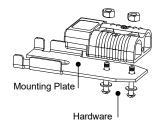
Manual Release Bracket - Mounting Side *

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	-			

^{*} Torque value 50 (in - lbs) / 5.6 (Nm)

NOTE: For assembly of brackets to housing only



Manual Release Bracket - Locking Side with Cable Clamp *

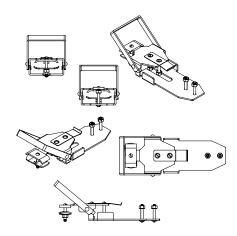
Works with the Mounting Side to ease mating and unmating connectors.

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

^{*} Torque value 50 (in - lbs) / 5.6 (Nm)

NOTE: For assembly of bracket to housing only

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



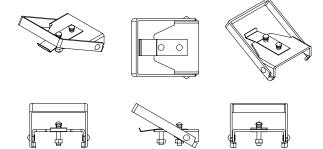
Manual Release Bracket - Locking Side no Cable Clamp *

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

Description	Part Number
Minimum Quantity	10
Bracket and Hardware Kit No Clamp Kit	919G1

^{*} Torque value 50 (in lbs) / 5.6 (N - M)

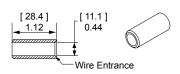
NOTE: For assembly of bracket to housing only



Reducing Bushings: for Use with Contact Part Number 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 Si	ze		
AWG mm	AWG n	nm²	Part Num	bers
Minimum Quantity			500	100
2/0 67.4	1/0 5	53.5	5918-BK	5918



SB® Tooling Information

Wire	e Size	Loose Piece Part Number	Loose Piece Contact Crimp Tools							
AWG	mm²	Silver Plating	Hand Tool	OR	Pneumatic Tool	+	Die	+	Locator	Number of Crimps
SB® 50										
	12.2	1307								
6	13.3	5900					1388G6		1389G6	
8	8.4	5952	1309G4	9G4 1387G1	1387G1					Single
10 to 12	5.3 to 3.3	5953					1388G7		1389G7	
10 (0 12	3.5 10 3.5	5915					130007		136907	
SB® 120										
1	42.4	1323G1					1388G3			
2	33.6	1319	1368 Series	1387G1		1388G4	138	1389G4	Single	
4	21.2	1319G4	1300 361163					138904	Siligic	
6	13.3	1319G6								
			:	SB® 1	75					
1/0	53.5	1382	1368 Series							
1	42.4	1347			1387G2		1303G13		1304G32	Double
2	33.6	1383				1303013	1304032	1304032	Double	
4	21.1	1384								
6	13.3	1348			1387G1		1388G4		1389G3	Single
				SB® 3	50					
350 mcm	185	910			N/A					
300 mcm	152	910			13/7					
4/0	107.2	908	- 1368 Series				1303G3			Double
3/0	85	916	T200 251152		1387G2				1304G31	Double
2/0	67.4	907			130/02		1303G12		1304031	
1/0	53.5	917								

NOTE: See website for the most current information.

SB® 2/0 Tooling Information

Wire	e Size	Loose Piece Part Number	Loose Piece Contact Crimp Tools							
AWG	mm²	Silver Plating	Hand Tool	OR	Pneumatic Tool	+	Die	+	Locator	Number of Crimps
2/0	53.5	1328G1	1368		1387G2		1303G12		1304G32	Double

NOTE: See website for the most current information.

Your Best Connection™

2020-0055 DS-SB350 REV C7

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