SB[®] Environmental Boots

The soft shell boots provide water, dirt, chemical and UV protection for SB[®] connectors. The durable boots shield the connectors from water and dirt to IP64 when mated or unmated when the integral cover is used.

SB[®] Environmental Boots are ideal for a wide range of applications including: generators, industrial trucks, bus and coach, road construction, road maintenance, off road, farm and agriculture equipment.



An **IDEAL** Company

SPECIFICATIONS |

UL 1977	CSA
120	50
240	130
280	175
	120 240

Material - SB®50, SB®120 and SI	B®175
 SB[®] Connector Housing SB[®] Connector Housing (CR) * SB[®] Environmental Boot 	PC PC/PBT TPE
Flammability Rating • UL94	V0
UV and Ozone Resistant	Yes
*Chemical Resistant Series	

Mechanical - Wire Contacts with Bushings **Environmental Protection** • SB®50, SB®120 and SB®175 IP64 Wire Size Range AWG mm² 1.3 to 13.3 • SB®50 16 to 6 • SB®120 10 to 1 5.3 to 42.4 • SB®175 12 to 1/0 3.3 to 53.5 **Operating Temperature** F С SB[®] Connector Housing -4° to 221° -20° to 105° • SB[®] Connector Housing (CR)* -40° to 221° -40° to 105° -40° to 275° -40° to 135° SB[®] Environmental Boot Mating Cycles **Connector in Boot** • SB®50 1.500 • SB®120 1,500 • SB®175 1,500

*Chemical Resistant Series

IP64 Protection



Totally Protected

Against Dust Ingress

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360° Protected
Against Water Ingress
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- Resistant to UV, Roadway Chemical and Ozone
- Splash Resistant When Mated and Unmated
 When the Integral
 Cover is Used
- Customized Boots to Fit Your AWG or MM² Wires
- Mountable
- Easy to Use

| DIMENSIONS |

Mated Boot Dimensions

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Mated Boot Dimensions	Inches	mm	Inches	mm	inches	mm
SB [®] 50 Environmental Boot	5.9	151.4	1.8	45.1	6.3	160
SB®120 Environmental Boot	7.9	200	3.1	78	8.0	204
SB®175 Environmental Boot	9.5	241	3.2	80	9.3	236

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Mated Boots with Covers

SB[®]50 | ORDERING INFORMATION |

SB[®] 50 Environmental Boots

SB® Environmental Boots provide water, dirt, chemical and UV protection for SB $^{\circ}$ 50 connectors. The durable boots shield the connectors from water and dirt to IP64 in both the mated and unmated condition.

Description	Part Numbers	
Minimum Quantity	250	25
SB®50 Environmental Boot (no cover), Load	3-6054P1-BK	3-6054P1
SB®50 Environmental Boot (no cover), Source	3-6055P1-BK	3-6055P1
SB®50 Environmental Boot with Cover, Load	3-6054P2-BK	3-6054P2
SB [®] 50 Environmental Boot with Cover, Source	3-6055P2-BK	3-6055P2

SB[®]50 Standard Housings

The smallest SB $^{\circ}$ housings work with wire contacts up to 6 AWG [10 mm²]. Genderless design mates with itself. Mechanical keys are color coded.

Description	Part Num	bers	
Minimum Quantity	250	50	
Yellow	992G5-BK	992G5	
Orange	992G7-BK	992G7	
Red	992G1-BK	992G1	
Gray	992-BK	992	
Blue	992G4-BK	992G4	
Green	992G6-BK	992G6	
Black	992G2-BK	992G2	
NOTE: SB [®] 50 Black and Gray housings have the same keying			
features and can be i	ntermated		

features and can be intermated.

SB®50 Chemical Resistant (CR) Housings

Same features as the Standard SB[®]50 but molded in a chemical resistant PBT/ PC blend. Suitable for use to -40°C.

Description	Part Numbers		
Minimum Quantity	250	50	
Red	P992G1-BK	P992G1	
Gray	P992-BK	P992	
Black	P992G2-BK	P992G2	

NOTE: Black and Gray housings have the same keying features and can be intermated

SB®50 Silver Plated Wire Contacts

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

AWG	mm	Force	Part Nur	nbers
Minimum	Quantity		1000	100
6	13.3	Low	1307-BK	1307
6	13.3	High	5900-BK	5900
8	8.4	High	5952-BK	5952
12 to 10	3.3 to 5.3	Low	5953-BK	5953
12 to 10	3.3 to 5.3	High	5915-BK	5915

SB®120 | ORDERING INFORMATION |

SB® 120 Environmental Boots

SB® Environmental Boots provide water, dirt, chemical and UV protection for SB®120 connectors. The durable boots shield the connectors from water and dirt to IP64 in both the mated and unmated condition.

Description	Part Nun	nbers
Minimum Quantity		25
SB [®] 120 Environmental Boot with Cover, Source	3-6034P1-BK	3-6034P1
SB®120 Environmental Boot with Cover, Load	3-6035P1-BK	3-6035P1

SB®120 Chemical Resistant (CR) Housings

Same features as the Standard SB®120 but molded in a chemical resistant PBT/ PC blend. Suitable for use to -40°C.

Description	Part Numbers			
Minimum Quantity	250	50		
Red	P6810G3-BK	P6810G3		
Gray	P6810G1-BK	P6810G1		

SB®120 Standard Housings

The second to smallest SB[®] housings work with wire contacts up to 1 AWG [35 mm²]. Genderless design mates with itself. Mechanical keys are color coded.

Description	Part Numbers		
Minimum Quantity	250	50	
Red	6810G3-BK	6810G3	
Gray	6810G1-BK	6810G1	
Blue	6810G2-BK	6810G2	

SB®120 Silver Plated Wire Contacts

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

AWG	mm	Force	F	Part Numbers -	
Minimu	m Quantity		600	500	50
1	42.4	Low	1323G1-BK	-	1323G1
2	33.6	High	-	1319-BK	1319
4	21.1	High	-	1319G4-BK	1319G4
6	13.3	High	-	1319G6-BK	1319G6

SB[®]175 | ORDERING INFORMATION |

SB® 175 Environmental Boots

SB® Environmental Boots provide water, dirt, chemical and UV protection for SB®175 connectors. The durable boots shield the connectors from water and dirt to IP64 in both the mated and unmated condition.

Description	Part Numb	pers
Minimum Quantity		25
SB [®] 175 Environmental Boot with Cover, Source	3-6036P1-BK	3-6036P1
SB®175 Environmental Boot with Cover, Load	3-6037P1-BK	3-6037P1

SB®175 Chemical Resistant (CR) Housings

Same features as the Standard SB®175 but molded in a chemical resistant PBT/ PC blend. Suitable for use to -40°C.

Description	Part Numbers	
Minimum Quantity	200	50
Red	P949-BK	P949
Gray	P940-BK	P940

SB®175 Silver Plated Wire Contacts

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

AWG	mm	Force	Part Numbers	
Minimu	um Quant	ity	500	50
1/0	53.5	High	1382-BK	1382
1	42.4	High	1347-BK	1347
2	33.6	High	1383-BK	1383
4	21.1	High	1384-BK	1384
6	13.3	High	1348-BK	1348

SB®175 Standard Housings

The second to largest SB[®] housings work with wire contacts up to 1/0 AWG [50 mm²]. Genderless design mates with itself. Mechanical keys are color coded.

Description	Part Numbers	
Minimum Quantity	200	50
Yellow	943-BK	943
Orange	942-BK	942
Red	949-BK	949
Gray	940-BK	940
Blue	941-BK	941
Black (Keyless)	2-7252G11	-
Brown	940-BK	940

NOTE: SB®175 black is keyless and can be mated with all other colors.

Tooling

APP[®] crimp tooling is required for UL & CSA connector compliance. Using unapproved crimp tools will void the connector's warranty. For crimp tool information, see the Powerpole/Multipole catalog or visit <u>www.andersonpower.com</u>

Mounting

Environmental boots can be mounted using such items as a hose clamp, hanger strap and cable tie, which are readily available at industrial supply companies, hardware store and/or automotive parts stores. Mounting methods should be thoroughly evaluated for the end use application.







For More Information About SB[®] Connectors, SB[®] Dust Covers and Other SB[®] Accessories, See Our Powerpole[®] & Multipole Catalog or Visit <u>www.andersonpower.com</u> For Information About IP68 Environmentally Sealed Connectors, Please Visit <u>www.andersonpower.com/products/spec-pack-connectors</u>

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