APP
Anderson Power Products®
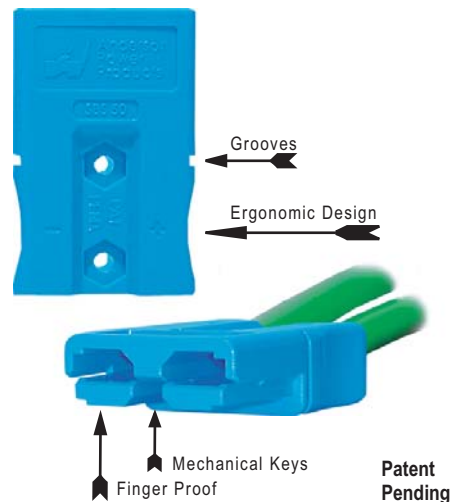
SBS™50
Finger Proof Connector

The Patent Pending SBS™50 is designed for high voltage applications where personal safety is critical. The connector meets the accessibility requirements of UL1977 sec 10.2 and is recommended for over 50 volts.

The slim, ergonomic design, along with Anderson's flat wipe contact technology makes hot plugging and unplugging easy and safe. The SBS™ 50 is manufactured using the same high quality materials that provide APP customers the robustness needed for systems demanding reliability and longevity.

Applications for this connector include: AC & DC power distribution, uninterruptible power supplies (UPS) and traction batteries.

FEATURES

• Finger proof
Minimizes the potential contact with live contacts, per UL 1977, sec 10.2

• Mechanical keyed housings
Prevents accidental mating of connectors operating at different voltage levels

• Ergonomic design
Is "user friendly" during connection and disconnection of the system

• Molded side grooves
Allows for direct panel mounting, for panel thicknesses of .048 to .062 inches (mm) or a panel mount bracket

Grooves
Ergonomic Design
Mechanical Keys
Finger Proof
Patent Pending

PRODUCT SPECIFICATIONS

Connector Model	SBS 50	Connector Model	SBS 50
UL Current Rating (Amperes)*	50*	Life	
		a. No load (Contact/Disconnect Cycles)	To 10,000
UL Voltage Ratings (Volts)	600*	b. Under Load (Hot Plug 250 cycles @ 120V)	50A
Contact Barrel Wire Size (AWG)	#6 to #16	Avg. Connection/Disconnect (lbs)	15
(mm²)	13.3 to 1.3		
		Operating Temperature Range °C**	-20° to 105°
Maximum Wire Insulation Diameter (inches)	0.44		
(mm)	11.18	Flammability Rating of Housing Material	UL94 V-0
AVG Contact Resistance* (micro-ohms)	200		
Insulation Withstanding Test Voltage (Volts AC/DC)	2200		
Contact Retention Force (lbs)	50		

* UL Rated for 65°C rated wire or cable size
** Contact factory for higher temperature rated connector
SB®, UL and CSA Reference: This equipment is an Underwriters Laboratories Inc® recognized component. It is also listed by the Canadian Standards Association as certified.

ORDERING INFORMATION

2 Pole Housing & 50 amp Contacts

Part Number	Housing Color	Wire AWG	sq. mm
SBS50GRA#6	Gray	#6	13.3
SBS50GRA#10/12	Gray	#10/12	5.3/3.3
SBS50BLU#6	Blue	#6	13.3
SBS50BLU#10/12	Blue	#10/12	5.3/3.3
SBS50ORN#6	Orange	#6	13.3
SBS50ORN#10/12	Orange	#10/12	5.3/3.3
SBS50YEL#6	Yellow	#6	13.3
SBS50YEL#10/12	Yellow	#10/12	5.3/3.3

For additional colors, contact factory

Housings Only

Part Number	Description
SBS50GRA	Gray
SBS50BLU	Blue
SBS50ORN	Orange
SBS50YEL	Yellow
SBS50RED	Red
SBS50GRN	Green

50 amp Contacts

Part Number	Description	Wire AWG	sq. mm
1339G2	Contact set (2)-low det	#6	13.3
1339G3	Contact set (2)-low det	#10/12	5.3/3.3

Accessories

| Part Number	Description
SBS50-HDL-Red	Handle & hardware-red
990	Cable clamp & hardware-self attaching-2C
990G1	Cable clamp & hardware-screw mounting-2C
5905	Cable clamp-1 twin conductor with hardware
1466G1	Panel mount bracket

Bushings

Part Number	Description	Wire AWG	sq. mm
5912	Use with 1339G2	#6 to #8	3.3/8.4
5910	Use with 1339G2	#6 to #10/12	13.3 to 5.3/3.3
5913	Use with 1339G2	#6 to #14/16	13.3 to 2.08/1.31

ORDERING INFORMATION

Tooling

| Part Number	Description
1309G4	Hand tool
1387G1	Pneumatic tool
1388G6	- die for #6 to #16 AWG
1388G7	- die for #10 to #12 AWG
1389G9	- loctor for #6 to #12 AWG

TEMPERATURE RISE CHART

SBS50
Temperature Rise at Constant Current

- 6 AWG
- 10 AWG
- 12 AWG
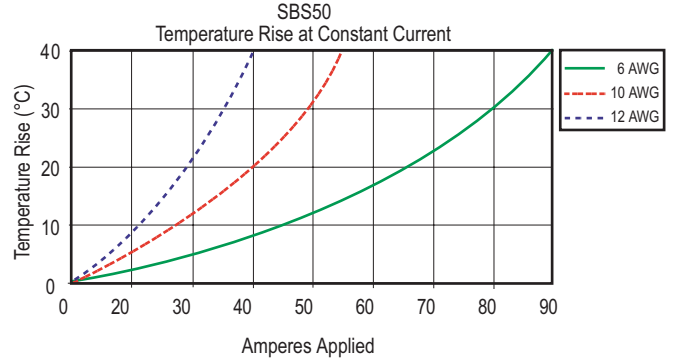
DIMENSIONS

SBS™ 50 Housing

Series	-A- mm	in.	-B- mm	in.	-C- mm	in.	-D- mm	in.	-E- mm	in.	-F- mm	in.	-G- mm	in.	-H- mm	in.	-J- mm	in.
SBS™50	19.1	.75	6.3	.25	30.7	1.21	36.1	1.42	55.8	2.20	84.8	3.34	10.6	.42	16.5	.65	3.6	.14
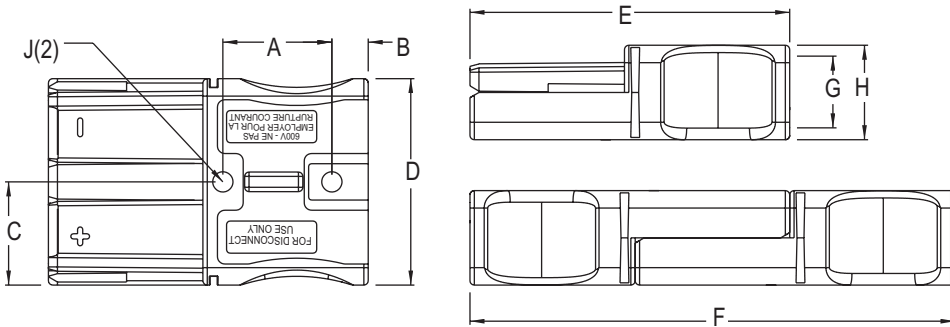
Panel Mounting Bracket
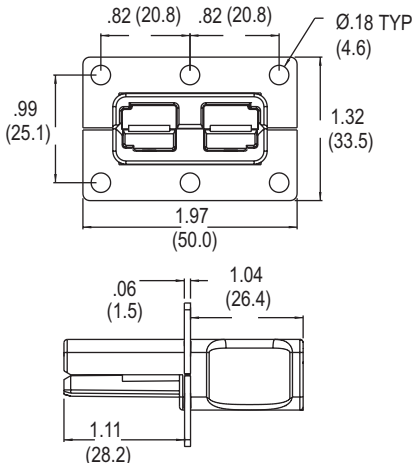
Panel Cutout With A Mounting Bracket
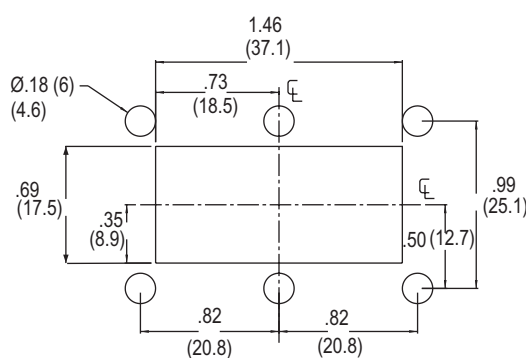
Panel Cutout Without A Mounting Bracket

Patent Pending

DS-SBS50 REV04