

## FEATURES

- Mechanical keyed housings**  
*Prevents accidental mating of components operating at different voltage levels*
- Single-piece housing and unitized construction**  
*Provides industrial quality and durability*
- PCB mounted Quick disconnect**  
*Avoids the need for unfastening ring type terminals*
- Straight and right angle terminal**  
*Provides flexibility of parallel or perpendicular mounting to the PCB*
- Genderless design**  
*Makes assembly quick and easy and reduces number of parts stocked*
- Flat wiping contact system**  
*Allows for minimal contact resistance at high current, wiping action cleans contact surface during disconnection*
- Silver plated contacts**  
*Offers greater longevity when using high power, elevated temperature applications*
- UL approved for current interrupt**  
*Safe for "Hot Plug" of battery power*
- Wide product range - for 50, 120, 175 and 350 amps**  
*Allows versatility to choose product best suited to design requirements*
- UL94 V-0 housing material**  
*Provides security in knowledge that the connector chosen meets strict UL flammability ratings*



## PRODUCT RANGE

UL Current Rating (Amperes)*	50* to 350*
UL Voltage Ratings (Volts)	600*
Contact Barrel Wire Size (AWG)	#16 to 300 mcm
(mm <sup>2</sup> )	1.3 to 152.0
Maximum Wire Insulation Diameter (inches)	0.44 to 1.10
(mm)	11.2 to 27.9
AVG Contact Resistance* (micro-ohms)	200 to 50
Insulation Withstanding Test Voltage (Volts AC/DC)	2200
Contact Retention Force (lbf)	50 to 500
Life	
a. No load (Contact/Disconnect Cycles)	To 10,000
b. Under Load (Hot Plug) Max Amps (250 cycles @ 120V)	50A to 100A
Avg. Connection/Disconnect (lbf)	15 to 35
Operating Temperature Range °C**	-20° to 105°
°F	-4° to 221°
Flammability Rating of Housing Material	UL94 V-0



\* UL Rated for 65°C largest wire or cable size

\*\* Contact factory for higher temperature rated connectors

### Recommended Voltage Key Color Code

Voltage	12V	18V	24V	36V	48V	72V	80V	96V	120V	144V
Color	Yellow	Orange	Red	Gray	Blue	Green	Black	Brown	Purple	White

## PRODUCT INFORMATION

Invented by Anderson Power Products®, the innovative SB® connectors provide cost-effective reliability, design flexibility and mistake-proof capability for your products' manufacture, installation and maintenance. APP's 2 & 3 pole connectors are available for 50, 120, 175 and 350 amp ratings for use to 600 Volts continuous AC or DC operation. There are SB® connectors for many applications and wire sizes, #16 (1.3 mm<sup>2</sup>) to 300 mcm (152.0 mm<sup>2</sup>). Mechanical keys ensure connectors will only mate with connectors of the same color. Different color housings are selected to identify voltages, thus preventing mismatching of the power supply system.

The housings are interchangeable and genderless interconnects. Insert contacts into housings and plug together for a clever, simple and low-cost solution to power interconnection. Low-detent contacts are also offered for low insertion/withdrawal force applications. Contacts are available in reeled and loose piece designs to support all production needs from very high volumes to engineering prototype and low-volume customized products.

**Markets:** UPS Systems, Telecommunications, Forklift Trucks, Wheelchairs, Electric Vehicles, Chargers, Power Electronics & Much More.



© CSA Certified  
File No. LR25154



File No. E26226

All Data Subject To Change Without Notice

DS-SBFMLY REV03

**HEADQUARTERS:** 13 Pratts Junction Road, P.O. Box 579, Sterling, MA 01564 T:978-422-3600 F:978-422-3700

**EUROPE:** Rathealy Road, Fermoy Co. Cork, Ireland T:353-(0)25-32277 F:353-(0)25-32296

**ASIA/PACIFIC:** IDEAL Anderson Asia Pacific Ltd., Unit 922-928 Topsail Plaza, 11 On Sum Street, Shatin N.T., Hong Kong T:852-2636-0836 F:852-2635-9036

**CHINA:** IDEAL Anderson Technologies (Shenzhen) Ltd., Block A8 Tantou W. Ind. Par, Songgang Baoan District, Shenzhen, PR. China 51810 T: 86-755-2768-2118 F: 86-755-2768-2218

**TAIWAN:** IDEAL Anderson Asia Pacific Ltd., Taiwan Branch, 4F-2, No.116, Dadun 20th St., Situn District, Taichung City 407, Taiwan (R.O.C.) T: 886-4-2310-6451 F:886-4-2310-6460

[www.andersonpower.com](http://www.andersonpower.com)