

### FEATURES

- **UL94 V-0 housing material**

*Provides security in knowing that the connector chosen meets strict UL flammability ratings*

- **Chemical Resistant (CR) material offered**

*UV resistant, greater temperature range and resistance to hydrocarbons and solvents*

- **Mechanical keyed housings**

*Prevents accidental mating of components operating at different voltage levels*

- **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*

- **UL approved for current interrupt**

*Safe for "Hot Plug" of battery power*

- **Wide product range - for 50 to 350 amps**

*Allows versatility to choose product best suited to design requirements*

#### 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 RANGE

Current Rating (Amperes)*	50* to 350*
Voltage Rating (AC/DC)	600*
Contact Barrel Wire Size (AWG)	#16 to 300 mcm
(mm <sup>2</sup> )	1 to 150
Maximum Wire Insulation Diameter (inches)	0.44 to 1.10
(mm)	11.2 to 27.9
Average Contact Resistance* (micro-ohms)	200 to 50
Dielectric Withstanding Voltage (AC/DC)	2200
Contact Retention Force (lbf)	50 to 500
(N)	222 to 2224
Life	
a. No load (mating cycles)	To 10,000
b. Under Load	
(Hot Plug 250 mating cycles @120V)	50A to 100A
Average Connection/Disconnect (lbf)	15 to 35
(N)	67 to 156
Operating Temperature Range **	
• SB Line - Polycarbonate (°C)	-20° to 105°
(°F)	-4° to 221°
• CR-SB Line - PBT / PC Blend (°C)	-40° to 120°
(°F)	-40° to 248°
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

### 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 (1.0 mm<sup>2</sup>) to 300 mcm (150 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.

The chemical resistant (CR) SB line of connectors were developed for customers whose applications require robust connector solutions that provide improved resistance to environmental factors that commonly degrade standard products leading to eventual failure. The housing material offers improved resistance to hydrocarbons and solvents as well as an extended temperature range. The CR-SB connectors are ideal for a variety of industries that includes Automotive, Industrial, and Personal Mobility.

In addition, these new housings offer all the benefits of the industry standard SB line including color and mechanical coding, hot plug capability, and genderless design. These products are fully intermateable and interchangeable with the standard SB connectors and accept the same range of contacts.

NOTE: Chemical Resistant connectors are offered in Red or Gray. Contact factory for additional colors.