Anderson Power Products

# SBE®
## Connector Family

## FEATURES

**• Finger proof**
*Helps prevent fingers (or probes) from accidentally touching live contacts. SBE®160 and SBE®320 connector meets EN1175 requirements*

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

**• Auxiliary contacts**
*Provides ability to incorporate a secondary sensor control circuit*

**• Single-piece housing and unitized construction**
*Provides industrial quality and durability*

**• Optional air supply system**
*Supplies air to battery during charging*

**• Genderless design**
*Makes assembly quick and easy and reduces number of parts stocked*

**• UL94 V-0 housing material**
*Provides security in knowledge that the connector chosen meets strict UL flammability ratings*

## PRODUCT RANGE

| | |
|---|---|
| UL Current Rating (Amperes)* | 80 to 700* |
| UL Voltage Ratings (Volts) | 150* |
| Contact Barrel Wire Size (AWG) | #6 to 300 mcm |
| (mm²) | 13.3 to 152.0 |
| Maximum Wire Insulation Diameter (inches) | 0.44 to 1.10 |
| (mm) | 11.18 to 27.94 |
| 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 Plug250 cycles @ 120V) | 60 to 100A* |
| Avg. Connection/Disconnect (lbf) | 15 to 30 |
| Operating Temperature Range °C** | -20° to 105° |
| °F | -4° to 221° |
| Flammability Rating of Housing Material | UL94 V-0 |

### 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 |

RoHS COMPLIANT APP

** 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 SBE® connectors provide cost-effective reliability, design flexibility and safety for your products' manufacture, installation and maintenance. APP's 2 pole connectors are available for 80, 160, 320 and 700 amp ratings for use to 150 Volts continuous AC or DC operation. There are SBE® connectors for many applications and wire sizes, #6 (13.3mm²) to 300 mcm (152.0²mm). 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, genderless interconnects. Insert contacts into housings and plug together for a clever, simple and low-cost solution to power interconnection.

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

TÜV Rheinland BAUART GEPRÜFT TYPE APPROVED *SBE160 and SBE320*

© CSA Certified File No. LR25154

c UL us File No. E26226

*All Data Subject To Change Without Notice*

*DS-SBEFMLY REV05*

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