

SBE - Two Pole (Euro) Battery Connector Specifications

| Connector Model | SBE80 | SBE160 | SBE320 | SBE700 |
|---|-----------------|---------------------------------|---|---|
| Material Properties | | | | |
| Housing | PBT | PBT | PBT | PBT UL94 HB |
| Contact | Copper | Copper | Copper | Copper |
| Plating | Silver/Tin | Silver/Tin | Silver | Silver |
| Spring | Stainless | Stainless | Stainless | Stainless |
| Electrical Properties | | | | |
| Rated Current (Ampere) | 80 | 160 | 320 | 700 |
| Rated Voltage (Volts AC & DC) | 150 | 150 | 150 | 150V DC (EN1175) 600V AC/DC (UL1977) |
| Dielectric Voltage Withstand (Volts DC) | 1300 | 1300 | 1300 | 1300 |
| Insulation Resistance | Per Mil-Std-202 | Per Mil-Std-202 | Per Mil-Std-202 | Per Mil-Std-202 |
| Initial Contact Resistance (microhms) | 200 | 100 | 50 | N/A |
| Millivolt Drop at Max. Current (mV) | N/A | 16.00 | 16.00 | N/A |
| Mechanical Properties | | | | |
| Contact Retention Force (Lbs) | 80 | 300 | 500 | 200 |
| Crimp Retention Force (Lbs) | Per UL 486A | Per UL 486A | Per UL 486A | 250 |
| Contact Barrel Wire Size (AWG) | (1) 16mm cable | (1) 35mm cable to (1) 1/0 cable | (1) 2/0 cable to (1) 4/0 cable (1) #2 AWG cable to (1) 300 mcm cable | (2) 4/0 cables to (2) 250 mcm cables |
| Max. Wire Insulation Dia. (inches) | 0.44 | 0.75 | 1.10 | 0.90 |
| Avg. Connect / Disconnect Force (Lbs) | 15 | 25 | 30 | 30 with handle |
| Environmental Characteristics | | | | |
| Operating Temperature Range (°C) | -20° to 105° | -20° to 105° | -20° to 105° | -40° to +50° |
| Flammability of Housing | UL94 V-0 | UL94 V-0 | UL94 V-0 | UL94 V-0 |
| Probe proof (Recessed contacts) | Per EN1175 | Per EN1175 | Per UL 1977 | Per UL 1977 |

*For 65°C rated wire or cable

** For 75°C rated wire or cable

| | | | |
|--------------|----------------------------|--------------|----------------------------|
| Color | Voltage Recommended | Color | Voltage Recommended |
|--------------|----------------------------|--------------|----------------------------|

| | | | |
|---------------|-----|--------------|-----|
| Yellow | 12V | Blue | 48V |
| Orange | 18V | Green | 72V |
| Red | 24V | Black | 80V |
| Gray | 36V | | |

SBE® Connectors - Operating Characteristics* For largest 65 °C rated wire or cable size, ** Both AC and DC voltage, *** Contact factory for higher temperature rated connectors, **** Contact factory for hot plug capability data.

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