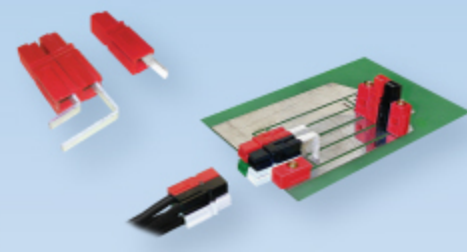


Powerpole®

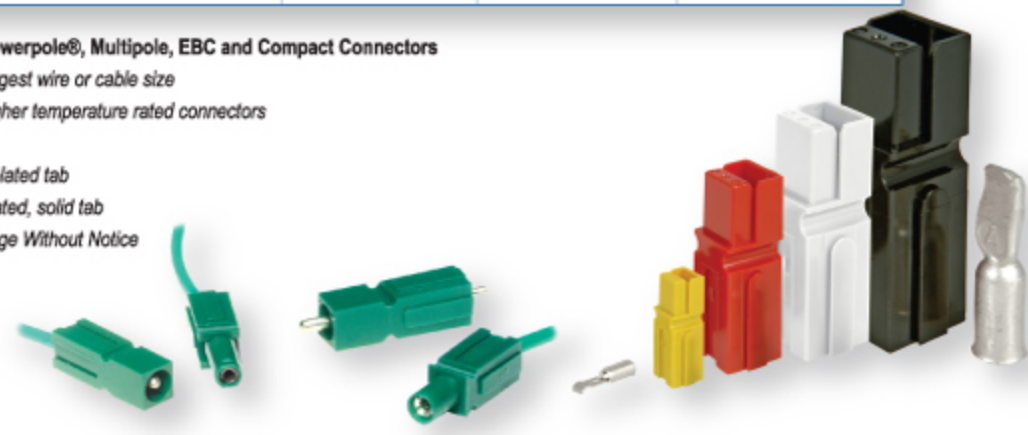
10 amps up to 180 amps



| SPECIFICATIONS | Pin & Socket | 15 to 180 amps | PCB Series |
|--|-------------------------------|--------------------------------|-----------------------------|
| Current Rating (Amperes) ⁽¹⁾ | 10 to 30 ⁽³⁾ | 15 to 180 | 25 to 55 |
| Voltage Ratings (Volts AC/DC) ⁽¹⁾ | 600 | 600 | 600 |
| Contact Barrel Wire Size (AWG) (mm ²) | #10 to #16 5.3 to 1.3 | #20 to 1/0 .5 to 53.5 | N/A N/A |
| Maximum Wire Insulation Diameter (inches) (mm) | .175 to 0.137 4.45 to 3.48 | .175 to 0.900 4.45 to 22.86 | N/A N/A |
| Housing Material | Polycarbonate | Polycarbonate | Polycarbonate |
| Contact Material | Copper Alloy | Copper Alloy | Copper Alloy |
| Contact Plating | Tin or Silver | Tin or Silver | Tin or Silver |
| Suggested Board Thickness | N/A | N/A | 0.093 to 0.150" max. |
| AVG Contact Resistance (micro-ohms) ⁽¹⁾ | 2200 to 600 | 578 to 100 | N/A |
| Insulation Withstanding | 2200 | 2200 | N/A |
| Contact Retention Force (lbf) (N) | 25 111 | 25 to 170 111 to 758 | N/A N/A |
| Life a. No load (Contact/Disconnect Cycles) b. Under Load (Hot Plug 250 cycles @ 120V) | 2,500 N/A | 10,000 15A to 75A | 10,000 15A to 50A |
| Insertion / Extraction Force (lbf) (N) | 3 to 5 13 to 22 | 3 to 20 13 to 89 | 2 to 15 8 to 66 |
| Touch Safe | No | PP15/45 | Optional - 25 amp |
| Operating Temperature ⁽²⁾ °C °F | -20° to 105° -4° to 221° | -20° to 105° -4° to 221° | -20° to 105° -4° to 221° |
| Flammability Rating of Housing Material | UL94 V-0 | UL94 V-0 | UL94 V-0 |

Connector Notes for Powerpole®, Multipole, EBC and Compact Connectors

- (1) UL Rated for 65°C largest wire or cable size
 - (2) Contact factory for higher temperature rated connectors
 - (3) Based on 10 AWG
 - (4) Ratings using nickel plated tab
 - (5) Ratings using gold plated, solid tab
- All Data Subject To Change Without Notice



Multipole & EBC

50 amps up to 700 amps



| SPECIFICATIONS | SB® | SBE® / SBO® | SBS® | SBX® | EBC (A & E) |
|--|--------------------------------|---|-----------------------------|--------------------------------------|---|
| Current Rating (Amperes) ⁽¹⁾ | 50 to 350 ⁽¹⁾ | 80 to 700 (SBE) ⁽¹⁾ 60 (SBO) | 50 | 175 to 350 ⁽¹⁾ | 80 -320 Nominal 155 - 335 Maximum ⁽¹⁾ |
| Voltage Ratings (Volts AC/DC) | 600 ⁽¹⁾ | 150 (SBE) ⁽¹⁾ 600 (SBO) ⁽¹⁾ | 600 ⁽¹⁾ | 600 ⁽¹⁾ | 150 |
| Contact Barrel Wire Size (AWG) (mm ²) | #16 to 300 mcm 1.3 to 152.0 | #6 to 300 mcm (SBE) #6 (SBO) 13.3 to 152.0 (SBE) 16 (SBO) | #6 to #16 0.44 to 1.3 | 1/0 to 300 mcm 53.5 to 152 | 1/0 to 4/0 at 320A (A) 10 to 35mm ² at 80A (A) 10 to 95mm ² (E) |
| Maximum Wire Insulation Diameter (inches) (mm) | 0.44 to 1.10 11.2 to 27.9 | 0.44 to 1.10 (SBE) 0.44 (SBO) 11.18 to 27.94 (SBE) 11.12 (SBO) | 11.2 200 | 0.75 to 1.10 19.1 to 27.9 | N/A N/A |
| Housing Material | Polycarbonate | PBT | Polycarbonate | Polycarbonate | PA6 (Nylon) Glass Filled (A) PBT/PC Blend (E) |
| Contact Material | Copper Alloy | Copper Alloy | Copper Alloy | Copper Alloy | Copper Alloy |
| Contact Plating | Tin or Silver | Tin or Silver | Tin or Silver | Tin or Silver | Silver |
| AVG Contact Resistance (micro-ohms) ⁽¹⁾ | 200 to 50 | 200 to 50 (SBE) 200 (SBO) | 200 | 100 to 50 | 30 |
| Insulation Withstanding | 2200 | 2200 | 2200 | 2200 | 2200 |
| Contact Retention Force (lbf) (N) | 50 to 500 223 to 2232 | 50 to 500 223 to 2232 | 50 223 | 300 to 500 1339 to 2232 | 100 446 |
| Life a. No load (Contact/Disconnect Cycles) b. Under Load (Hot Plug 250 cycles @ 120V) | 10,000 50A to 100A | 10,000 60 to 100A (SBE) ⁽¹⁾ 60A (SBO) | 10,000 50A | 10,000 75A to 100A ⁽¹⁾ | 5000 N/A |
| Insertion / Extraction Force (lbf) (N) | 15 to 35 66 to 156 | 15 to 30 (SBE) 15 (SBO) 66 to 133 (SBE) 66 (SBO) | 15 66 | 25 to 30 111 to 133 | 12 (320A) 53 |
| Operating Temperature ⁽²⁾ °C °F | -20° to 105° -4° to 221° | -20° to 105° -4° to 221° | -20° to 105° -4° to 221° | -20° to 105° -4° to 221° | -25° to 90° (A) -25° to 105° (E) -13° to 194° (A) -13° to 221° (E) |
| Flammability Rating of Housing Material | UL94 V-0 | UL94 V-0 | UL94 V-0 | UL94 V-0 | UL94 V-0 |



Compact Connectors

5 amps up to 450 amps



| SPECIFICATIONS | Power Clip® | Power Drawer® | PowerMod® | PowerMod®HP A & B Series | MARC |
|------------------------------------|---|--|--------------------------------------|---|--|
| Current Rating (Amperes) | 300 ⁽⁴⁾ | 5 to 75 per contact | 30 | SP 220 (A) 450 (B) DP 210 (A) 400 (B) | #10 AWG = 30A @ 30° rise #12 AWG = 25A @ 30° rise #18 AWG = 14A @ 30° rise |
| Voltage Rating (Volts AC/DC) | 600 | 600 | 600 | 600 | 600 |
| Number of Poles | 1 | 29 to 37 | 3 to 30 | 1 or 2 | 8 |
| Wire Size (AWG) (mm ²) | N/A | #8 to #20 3.70 to 0.91 | #24 to #12 .5 to 3.31 | #6 to 4/0 16mm ² to 95mm ² | #10, #12, #18 5.3, 3.31, 1.02 |
| Dielectric Rating | 2200 V | 2200 VDC | 2200 V | 2200 V | 2200 V |
| Hot Pluggable | 100 amps @ 48 volts 200 amps @ 42 volts ⁽⁵⁾ | N/A | N/A | 80A / 120V (A) 150A / 48V (B) | N/A |
| Insertion Force (lbf) (N) | 10.0 maximum 44 | 2.0 to 0.43 per contact 8 to 2 per contact | 0.68 per contact 3 per contact | SP 7.0 (A) 16.5 (B) DP 15.0 (A) 33.0 (B) SP 31 (A) 135 (B) DP 66 (A) 147 (B) | 20 89 |
| Extraction Force (lbf) (N) | 5.0 minimum 2.3 | 1.26 to 0.07 per contact 0.57 to 0.03 per contact | 0.50 per contact 0.23 per contact | SP 3.0 (A) 8.0 (B) DP 6.0 (A) 16.0 (B) SP 13 (A) 35 (B) DP 26 (A) 71 (B) | 18 80 |
| Operating Temperature °C °F | -40° to 130° -40° to 226° | -40° to 125° -40° to 257° | -55° to 180° -65° to 356° | -40° to 130° -40° to 266° | -40° to 125° -40° to 257° |
| Housing Material | PBT UL94 V-0 | PBT UL94 V-0 | PPS UL94 V-0 | PBT UL94 V-0 | PBT UL94 V-0 |
| Contact Material | Beryllium copper alloy per C17200 Contact Holder; Copper alloy C11000 | Copper alloy | Copper alloy | Copper alloy | Copper alloy |
| Contact Plating (mating surface) | Gold | Silver or Gold | Gold | Silver | Silver |

