

PowerMod HP connectors, developed by Anderson Power Products, are the innovative New Generation of High Power Interconnections for the Electronics Industry.

The touch-safe, positive latching, PowerMod HP female connector design presents a new standard for high power connector safety. The ergonomic latch release is simple to operate and is colored blue for clear identification. Housings are a black UL94 V-0 flame retardant material.

PowerMod HP contacts are durable and rated for circuit interruption (true hot-pluggable). Series B contacts are available in 1/0 to 4/0 American wire gauge and 50mm² to 95mm² metric wire sizes for global design freedom. Our *strain relief ensures superior contact reliability under adverse operating conditions.

The PowerMod HP connectors embody the highest quality in the industry and meet all applicable industry standards.

* Strain relief not optional on right angle

Features

- **Right angle connector**

Offers short mated length for tight wiring applications

- **Positive latching**

Integral Latches with ergonomic release provide over 50 lbs retention

- **Touch safe female connectors**

Provides IP20 protection for safe, energized use outside the electronics cabinet

- **High performance, hot pluggable female contacts**

Our patented design provides greater longevity for high power, elevated temperature applications

- **Low connector mating forces**

Connectors are easily mated and un-mated



SPECIFICATIONS

Electrical

| | |
|--------------------------------------|--------------|
| Current Rating (Amperes) | |
| UL | 450 |
| CSA (30°C Rise) | 280 |
| UL / CSA Voltage Rating | 600 |
| Wire Size (AWG) | 1/0 to 4/0 |
| (mm ²) | 50 to 95 |
| Dielectric Withstanding Voltage (AC) | 2200 |
| Operating Temperature (°C) | -40° to 130° |
| (°F) | -40° to 266° |
| Ambient Temperature (°C) | -40° to 85° |
| (°F) | -40° to 185° |

Mechanical

| | |
|---|---------------------|
| Mating Force | 16.5 lbs. (74N) avg |
| Latch Retention Force | 50 lbs. (222N) min |
| Contact Retention Force | 150 lbs. (667N) min |
| Mating | |
| a. No Load (mating cycles) | 500 |
| b. Under Load (Hot Plug 250 mating cycles @ 120V) | 150A |

Materials

| | |
|-----------------------|---------------------------|
| Housing & Cable Clamp | PBT UL94 V-0 |
| Latch | PEI UL94 V-0 |
| Contacts | Copper alloy silver plate |
| Hardware | Steel zinc chromate |



File No. E26226

ORDERING INFORMATION

PowerMod HP Part Number Plan - Single Pole Right Angle Female

| Series | Series | Gender | Model | Wire Size |
|---------------------------------------|--------|--------|-------|-----------|
| PMHP | B | F | 03 | S09 |
| B * | | | | |
| F - Female | | | | |
| 03 - Single Pole R/A with cable clamp | | | | |
| S09 - 1/0 AWG to 50mm ² | | | | |
| S08 - 2/0 AWG to 70mm ² | | | | |
| S07 - 95mm ² | | | | |
| S06 - 4/0 AWG | | | | |

* Maximum wire size 4/0 AWG

Components

| Part Number | Description |
|-------------|---|
| PMHPBF03 | Housing Kit with Cable Clamp, Female, Single Pole, R/A |
| PMHPBS09 | Socket, Series B, Crimp for 1/0 AWG to 50mm ² wire |
| PMHPBS08 | Socket, Series B, Crimp for 2/0 AWG to 70mm ² wire |
| PMHPBS07 | Socket, Series B, Crimp for 95mm ² wire |
| PMHPBS06 | Socket, Series B, Crimp for 4/0 AWG wire |

Single Pole Right Angle Female - Series B

ORDERING INFORMATION

Tooling

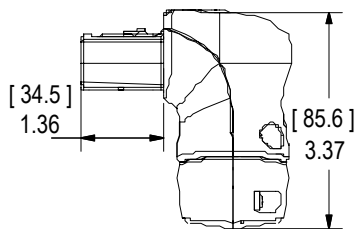
| Pneumatic Production Tool | | | | |
|---------------------------|-------------|---------|-------------|------------------|
| Wire Size | Part Number | Die P/N | Locator P/N | Number of Crimps |
| 4/0 | 1387G2 | 1303G3 | 1304G25 | 2 |
| 95mm ² | 1387G2 | 1303G17 | 1304G25 | 2 |
| 2/0-70mm ² | 1387G2 | 1303G16 | 1304G23 | 2 |
| 1/0-50mm ² | 1387G2 | 1303G8 | 1304G23 | 2 |

| Hand Tool | | | | |
|-----------------------|-----------|---------|---------|------------------|
| Wire Size | Hydraulic | Battery | Die P/N | Number of Crimps |
| 4/0 | 1387G3 | 1370G1 | 1322G14 | 2 |
| 95mm ² | 1387G3 | 1370G1 | 1322G1 | 2 |
| 2/0-70mm ² | 1387G3 | 1370G1 | 1322G3 | 2 |
| 1/0-50mm ² | 1387G3 | 1370G1 | 1322G13 | 2 |

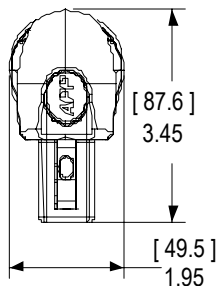
| Hydraulic Tool | | |
|-----------------------|-------------|------------------|
| Wire Size | Part Number | Number of Crimps |
| 4/0 | 1368 | 2 |
| 95mm ² | 1368 | 2 |
| 2/0-70mm ² | 1368 | 2 |
| 1/0-50mm ² | 1368 | 2 |

DIMENSIONS

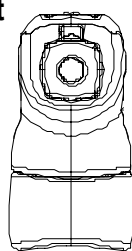
Side



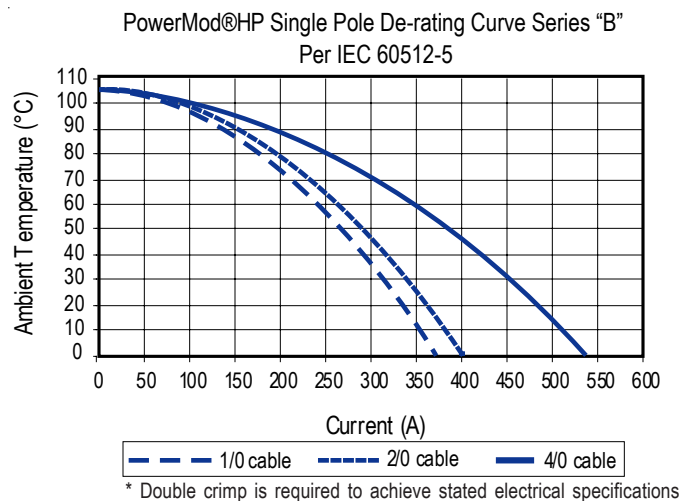
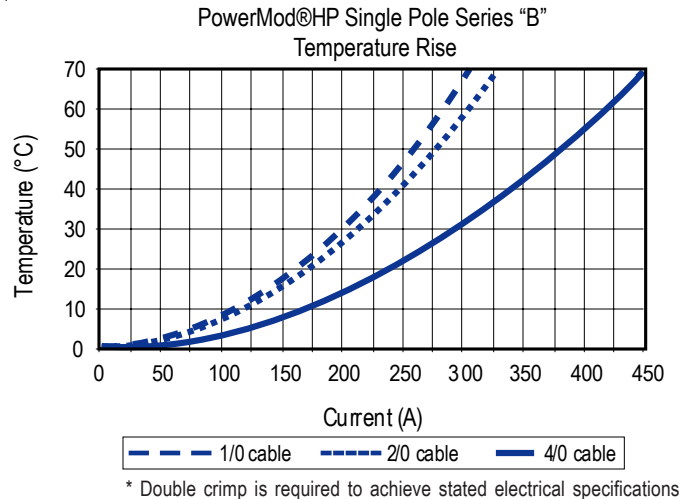
Top



Front



TEMPERATURE CHART



MATING CONNECTORS

Single Pole Male



Single Pole Bus Bar Male



Mouser Electronics

Authorized Distributor

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