

PowerMod®HP Dual Pole Female - Series A

An IDEAL Company

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 A contacts are available in #6 to #2 American wire gauge and 16mm² to 35mm² metric wire sizes for global design freedom. Our optional 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.

Features

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 cabinetHigh performance, hot pluggable

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

Strain relief option

female contacts

Reduces risk of wire insulation creep and reduces transmission of wire loads to contacts improving service life

Low connector mating forces

Connectors are easily mated and un-mated



SPECIFICATIONS

| Electrical | | Mechanical | |
|--------------------------------------|--------------|---|---------------------------|
| Current Rating (Amperes) | | Mating Force | 15 lbs. (66.72N) avg |
| UL | 210 | Latch Retention Force | 50 lbs. (222N) min |
| CSA (30°C Rise) | 130 | Contact Retention Force | 100 lbs. (445N) min |
| UL / CSA Voltage Rating | 600 | Mating | |
| Wire Size (AWG) | #6 to #2 | a. No Load (mating cycles) | 500 |
| (mm²) | 16 to 35 | b. Under Load (Hot Plug 250 mating cycles @ 120V) | 80A |
| Dielectric Withstanding Voltage (AC) | 2200 | Materials | |
| Operating Temperature (°C) | -40° to 130° | Housing & Cable Clamp | PBT UL94 V-0 |
| (°F) | -40° to 266° | Latch | PEI UL94 V-0 |
| Ambient Temperature (°C) | -40° to 85° | Contacts | Copper alloy silver plate |
| (°F) | -40° to 185° | Hardware | Steel zinc chromate |





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ORDERING INFORMATION

| Power | Mod HP Pa | rt Number | ' Plan - Dua | I Pole Fe | n |
|--|--|----------------|--------------|-----------|---|
| Series | Series | Gender | Model | Wire Size | |
| PMHP | Α | F | 11 | S05 | _ |
| | e Pole Straight Pole Straight wi | th Cable Clamr | 1 | | |
| S05 - 6 A\ S04 - 16m S03 - 4 A\ S02 - 25m | NG nm² NG | | | | |

Components

| Part | |
|----------|--|
| Number | Description |
| PMHPAF11 | Housing Kit, Female, Dual Pole, Straight |
| PMHPAF12 | Housing Kit with Cable Clamp, Female, Dual Pole, Straight |
| PMHPAS05 | Socket, Series A, Crimp for 6 AWG wire |
| PMHPAS04 | Socket, Series A, Crimp for 16mm ² wire |
| PMHPAS03 | Socket, Series A, Crimp for 4 AWG wire |
| PMHPAS02 | Socket, Series A, Crimp for 25mm² wire |
| PMHPAS01 | Socket, Series A, Crimp for 2 AWG & 35mm ² wire |
| PMHPAC02 | Dual Pole Cable Clamp Kit |

Maximum wire size 2 AWG or 35mm²

Dual Pole Female - Series A

ORDERING INFORMATION

Tooling

| Pneumatic Production Tool | | | | |
|---------------------------|----------------|---------|-------------|---------------------|
| Wire Size | Part Number | Die P/N | Locator P/N | Number of Crimps |
| #2 AWG 35mm² | 1387G2 | 1303G13 | 1304G19 | 2 |
| 25mm² | 1387G2 | 1303G13 | 1304G19 | 2 |
| #4 AWG | 1387G2 | 1303G14 | 1304G19 | 2 |
| 16mm² | 1387G2 | 1303G14 | 1304G19 | 2 |
| #6 AWG | 1387G2 | 1303G14 | 1304G19 | 2 |

| Hand Tool | | | | |
|-----------------|-----------|---------|---------|------------------|
| Wire Size | Hydraulic | Battery | Die P/N | Number of Crimps |
| #2 AWG 35mm² | 1387G3 | 1370G1 | 1322G7 | 2 |
| 25mm² | 1387G3 | 1370G1 | 1322G11 | 2 |
| #4 AWG | 1387G3 | 1370G1 | 1322G8 | 2 |
| 16 mm² | 1387G3 | 1370G1 | 1322G10 | 2 |
| #16 AWG | 1387G3 | 1370G1 | 1322G9 | 2 |

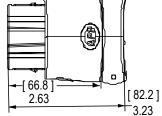
Accessories

Part

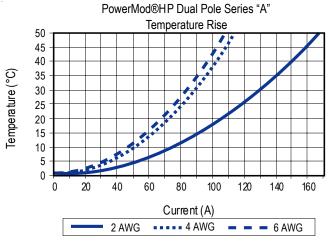
Number Description **PMHPAFDC** Dust Cover

DIMENSIONS

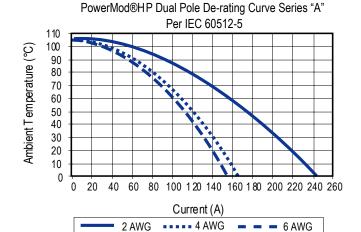
Front Without Front With Strain Relief Strain Relief 29.8] [63.7] [67.3] 2.65 2.51 Side



TEMPERATURE CHART



^{*} Double crimp is required to achieve stated electrical specifications



^{*} Double crimp is required to achieve stated electrical specifications

MATING CONNECTORS

Dual Pole Straight Male

Dual Pole Panel Mount Male





All Data Subject To Change Without Notice

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