

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 16mm<sup>2</sup> to 35mm<sup>2</sup> 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*

- **Strain relief option**

*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*

- **Silver plated, high conductivity contacts**

*Offers greater longevity for high power, elevated temperature applications*

- **Ease of assembly**

*Intuitive design allows for simplicity of assembly*



## SPECIFICATIONS

Electrical		Mechanical	
Current Rating (Amperes)		Mating Force	7 lbs. (31.14N) avg
UL	220	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
(mm <sup>2</sup> )	16 to 35	b. Under Load (Hot Plug 250 mating cycles @ 120V)	80A
Dielectric Withstanding Voltage (AC)	2200	<b>Materials</b>	
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



## ORDERING INFORMATION

### PowerMod HP Part Number Plan - Single Pole Male

Series	Series	Gender	Model	Wire Size
PMHP	A	M	01	P05
A *				
M - Male				
01 - Single Pole Straight				
02 - Single Pole Straight with Cable Clamp				
P05 - 6 AWG				
P04 - 16mm <sup>2</sup>				
P03 - 4 AWG				
P02 - 25mm <sup>2</sup>				
P01 - 2 AWG & 35mm <sup>2</sup>				

\* Maximum wire size 2 AWG or 35mm<sup>2</sup>

### Components

Part Number	Description
PMHPAM01	Housing Kit, Male, Single Pole, Straight
PMHPAM02	Housing Kit with Cable Clamp, Male, Single Pole, Straight
PMHPAP05	Pin, Series A, Crimp for 6 AWG wire
PMHPAP04	Pin, Series A, Crimp for 16mm <sup>2</sup> wire
PMHPAP03	Pin, Series A, Crimp for 4 AWG wire
PMHPAP02	Pin, Series A, Crimp for 25mm <sup>2</sup> wire
PMHPAP01	Pin, Series A, Crimp for 2 AWG & 35mm <sup>2</sup> wire
PMHPAC01	Single Pole Cable Clamp Kit

# Single Pole Male - Series A

## ORDERING INFORMATION

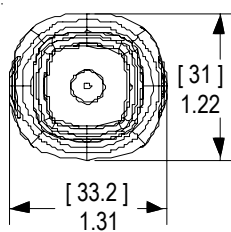
### Tooling

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

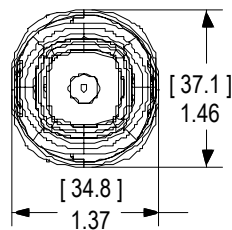
Hand Tool				
Wire Size	Hydraulic	Battery	Die P/N	Number of Crimps
#2 AWG 35mm <sup>2</sup>	1387G3	1370G1	1322G7	2
25mm <sup>2</sup>	1387G3	1370G1	1322G11	2
#4 AWG 16mm <sup>2</sup>	1387G3	1370G1	1322G8	2
#6 AWG	1387G3	1370G1	1322G9	2

## DIMENSIONS

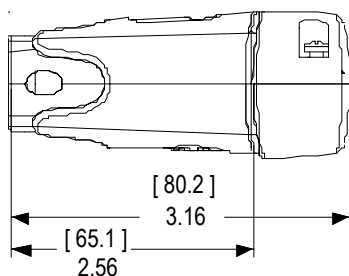
### Front Without Strain Relief



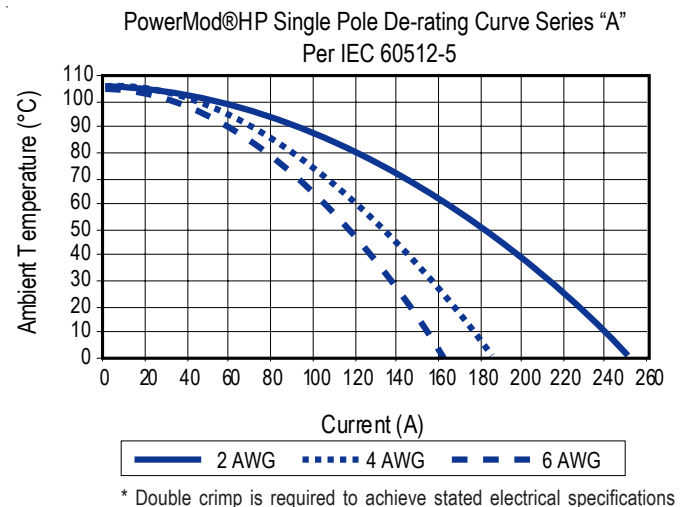
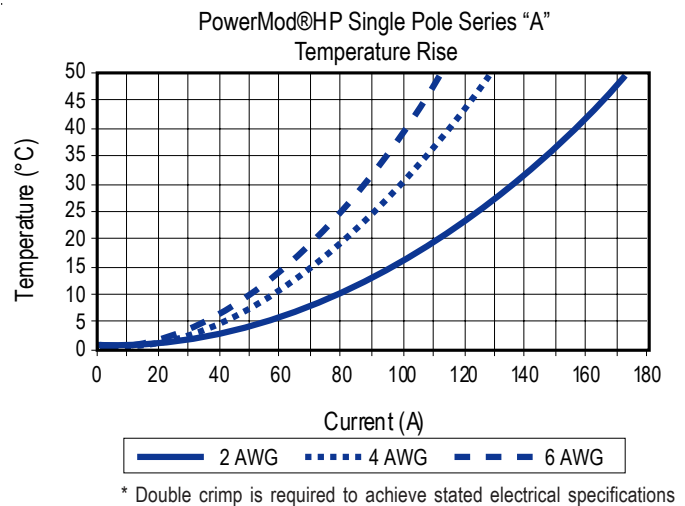
### Front With Strain Relief



### Side



## TEMPERATURE CHART



## MATING CONNECTORS

### Single Pole Right Angle Female



### Single Pole Female



All Data Subject To Change Without Notice

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