

PowerMod®HP Dual Pole Male - 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

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	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





PowerMod HP Part Number Plan - Dual Pole Male

ORDERING INFORMATION

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Series	Series	Gender	Model	Wire Size	Part	
PMHP	Α	M	11	P05	Number	Description
A *					PMHPAM11	Housing Kit, Male, Dual Pole, Straight
M - Male					PMHPAM12	Housing Kit with Cable Clamp, Male, Dual Pole, Straig
11 - Dual Po	ole Straight				PMHPAP05	Pin, Series A, Crimp for 6 AWG wire
		ith Cable Clamp			PMHPAP04	Pin, Series A, Crimp for 16mm ² wire
P05 - 6 AW	G	•			PMHPAP03	Pin, Series A, Crimp for 4 AWG wire
P04 - 16mm	1 ²				PMHPAP02	Pin, Series A, Crimp for 25mm² wire
P03 - 4 AW	G				PMHPAP01	Pin, Series A, Crimp for 2 AWG & 35mm ² wire
P02 - 25mm	1 ²				PMHPAC02	Dual Pole Cable Clamp Kit
P01 - 2 AW	G & 35mm ²					•

* Maximum wire size 2 AWG or 35mm²

Dual Pole Male - Series A

ORDERING INFORMATION

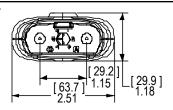
Tooling

Pneumatic Production Tool						
Wire Size	Part Number	Die P/N	Locator P/N	Number of Crimps		
#2 AWG 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 35mm ²	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	

DIMENSIONS

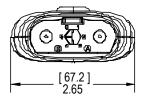
Front Without Strain Relief



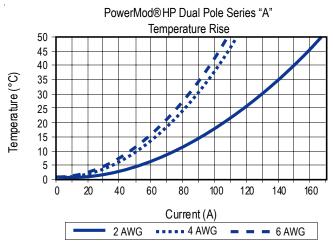
Side



Front With Strain Relief

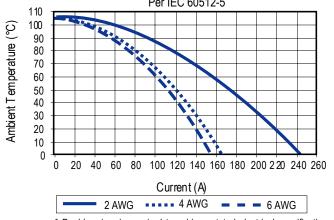


TEMPERATURE CHART



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

PowerMod®HP Dual Pole De-rating Curve Series "A" Per IEC 60512-5



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MATING CONNECTORS

Dual Pole Straight Female

Dual Pole Right Angle Female





All Data Subject To Change Without Notice

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