

Power Connectors

HP Series



HP Series

HP Series connectors are suitable for AC power supply where a latch locking connector is required. They are rated at 25 A / 250 Vac. Connectors are keyed and colour coded for power-in (Blue) and power-out (Grey).

⚡ THE HP SERIES OF CONNECTORS ARE NOT DESIGNED TO BE "HOT PLUGGED" AND SO ARE WITHOUT "BREAKING CAPACITY". IN OTHER WORDS, THE CONNECTORS SHOULD NOT BE CONNECTED OR DISCONNECTED LIVE OR WHEN UNDER LOAD

Features:

- Quick release, vibration resistant latch lock
- 3 pole
- Screw Terminals or Solder Tab 3/16"
- Chuck type cable clamp
- 25A Current rating
- Thermoplastic housing
- Industry standard mating
- UL, cUL recognized components (File no. E339831)



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
			3 pole, Cable connector, Thermoplastic shell, Blue sleeve, keyed for power-in	Screw	Blue	HP-3-F
			3 pole, Cable connector, Thermoplastic shell, Grey sleeve, keyed for power-out	Screw	Grey	HP-3-FG
			3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in	Solder Tab 3/16"	Blue	HP-3-MD
			3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out	Solder Tab 3/16"	Grey	HP-3-MDG
			3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in, without insulation divider	Solder Tab 3/16"	Blue	HP-3-MDW
			3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out, without insulation divider	Solder Tab 3/16"	Grey	HP-3-MDGW

STANDARD DATA HP SERIES CONNECTORS

		VALUE
GENERAL CHARACTERISTICS	Number of contacts	2 + PE
	Termination	Screw or Solder Tab 3/16"
	Flammability	UL94V-0
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
ELECTRICAL CHARACTERISTICS	Rated Operating Voltage	250VAC
	Test Voltage AC RMS	3200V
	Current carrying capacity	25A
	Typical Contact Resistance	≤3mΩ
	Insulation Resistance (initial)	≥2GΩ
	Insulation Resistance (after damp heat test)	≥1GΩ
CLIMATIC CHARACTERISTICS	Protection Class	IP20
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)
MECHANICAL CHARACTERISTICS	Weight** - Chassis Connector - Cable Plug	12g (0.026lb) 32g (0.070lb)
	Typical Cable retention force	200N (Subject to cable material and O.D.)
	Cable O.D range - Blue Chuck Clamp - Black Chuck Clamp	5mm - 7.5mm (0.19" - 0.29") 7.5mm - 15mm (0.29" - 0.59")
	Conductor Size - Screw Terminals	2.5mm ² (AWG14)
	MATERIALS	Connector Shell / Finish
Insulators		PA66 GF30
Cable Boot / Backshell		Santoprene / PBT
Cable Clamp (Chuck)		P.O.M
Contact Plug - Material / Plating		Brass / Silver
Contact Chassis - Material / Plating		Phosphor Bronze / Silver

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**Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes.

Power Connectors

HPT Series



HPT Series

HPT Series connectors are suitable for AC power supply where a durable latch locking connector is required. They are rated at 16A, 250 Vac. HPT Series connectors can be connected or disconnected under load and are IP65 rated.

Features:

- Quick release, vibration resistant latch lock
- 3 pole
- Chuck type cable clamp
- 16A current rating
- Thermoplastic housing
- Industry standard mating
- IP65 rated
- US. Patents Pending

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
			3 pole, Female Cable connector, Locking, Thermoplastic shell, Screw terminals	Screw	Black/ Yellow	HPT-3-F
			3 pole, Male Cable connector, Locking, Thermoplastic shell, Screw terminals	Screw	Black/ Yellow	HPT-3-M
			3 pole, Chassis Inlet connector, Thermoplastic shell, 1/4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-MD
			3 pole, Chassis Inlet connector, Thermoplastic shell, without insulation divider, 1/4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-MDW
			3 pole, Chassis Outlet connector, Thermoplastic shell, 1/4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-FD
			3 pole, Chassis Outlet connector, Thermoplastic shell, Screw terminals	Screw	Black/ Yellow	HPT-3-FDS
			3 pole, Chassis Inlet-Outlet combination, Thermoplastic shell, 1/4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-CC

PRODUCT SAFETY INFORMATION

This should be read in conjunction with Data Sheet information contained in individual product brochures. Failure to observe the advice in this information sheet and the operating conditions specified in the Data Sheets could result in hazardous situations.

1. Material Content and Physical Form

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials. Shells are manufactured in metal and plastic. Insulators can be formed in either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with the type of connector and its application. They are usually manufactured from either copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

2. Fire Characteristics and Electric Shock Hazard

There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionisation and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, or broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering.

Overheating may occur if the ratings in the Data Sheets are exceeded and can cause breakdown of insulation and hence electric shock.

If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper or spring contact, formation of oxide film on contacts and wires, and leakage currents through carbonisation of insulation and tracking points. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

3. Handling

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

4. Disposal

Incineration of certain materials may release noxious or even toxic fumes.

5. Application

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts of an unmated connector. Voltages in excess of 30 V.A.C. or 42.5

V.D.C. are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no low resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheets. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

Important General Information

A) Air and creepage paths / Operating voltage.

The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations. For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

B) Other important information

Amphenol Australia Pty Ltd continuously endeavours to improve its products. Therefore, products may deviate from the description, technical data and shape as shown in product brochures.

C) Assembly instructions

If applicable, special assembly instructions have been included in or on the connector packaging. See also separate instructions in product brochures.

DISTRIBUTED BY

International Headquarters

Amphenol Australia Pty Ltd

22 Industry Blvd.
Carrum Downs VIC 3201 Australia

Phone: +61 3 8796 8888
Fax: +61 3 8796 8801
Email: info@amphenol.com.au

Europe

Amphenol Audio Representative Office

August-Haessler – Str. 10
74080 Heilbronn Germany

Phone: +49 71 31 9 29 0
Fax: +49 71 31 9 29 486
Email: industrial@amphenol.de

www.amphenolaudio.com.au

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North America

Amphenol Audio Representative Office

44724 Morley Drive
Clinton Township, MI, USA 48036

Phone: +1 800 394 7732
Direct: +1 586 913 8650
Email: sales@amphenolaudio.com

Asia Pacific

Amphenol Australia (China Operations)

3rd floor, Building 9 Shan Cheng Industrial Zone,
Zhou Shi Road, Shi Yan Street, Bao An District,
Shen Zhen, China 518108

Phone: (+86) 755 8173 8000
Fax: (+86) 755 8173 8180
Email: apcd@amphenol.com.au