

HPT HPT Series™ Power Power Connectors & Accessories



Our **HPT Series™ Power Connectors and Accessories**, an extension of our highly successful HP Series™ (Blue/Grey) Power Connector line, brings significant safety and reliability improvements to the marketplace! Designed to be fully plug compatible with both the original and latest industry standard products, UL Recognized and VDE approved to IEC 61984 to 5,000 circuit-breaking mating cycles. With an easier-to-use, innovative, patented, cable clamp lock design safety feature, the HPT Series™ is an ideal "first choice", or "drop in" replacement, for your lighting fixture, video wall, special effects, powered loud speaker or power distribution interconnect needs.

HPT Series™ Power Connectors are perfect for AC power supply where a durable, latched, twist-locking, circuit-breaking connector is required, and are rated at 20A @ 250V. HPT Series™ Power Connectors can be connected or disconnected under load and are IP65 rated.

Market Applications: Entertainment & Broadcast Lighting, LED Video Walls, Stage Power Distribution Boxes, and Powered Loud Speakers

Features

- 2+PE contact layout
- 20A @ 250V (16A @ 250V EU)
- VDE approved to IEC 61984 to 5,000 circuit-breaking mating cycles for lowest cost of maintenance*
- Quick release, easy on the thumb, vibration resistant latch
- High impact, UV resistant materials
- True Mains Connector with Current Breaking Capacity (CBC)
- Industry standard mating interface
- IP65 & UL50E Type 4 Enclosure rated (in mated condition or in conjunction with our accessory covers)
- Standard inline versions are UL rated for 14-3 SO OD cordage with a locking cable clamp**
- Jumbo versions ("J") are UL rated for 12-3 SO OD cordage without a locking cable clamp**
- U.S. Patents: 10,186,804; D839,193; B840,341
- Licensed under the following global patents: US 10823914B2, JP 6705027B2, HK 40009428A, EP 3514892B1, EP 3641070A1, DE 102018101431A1, CN 110071397A



*Compared to competitors' products VDE approved to IEC 60320 Appliance Coupler Standard at 50 circuit-breaking cycles.

**In order to accommodate the larger OD's of the 600V "SO" Cord in our jumbo connector design, the backshell locking feature was eliminated from the "Jumbo" designs. While the locking back shell is an added personnel safety feature, it is not a requirement of the NEC or UL.

IMPORTANT: This is the First UL Recognized Inline Connector on the market that accommodates up to 12-3 "SO" (600V) Portable Cord as REQUIRED in "Extra Hard Usage" Applications as defined by the NEC. (See Table 400.4 of NFPA 70: National Electrical Code (NEC) 2017 Edition.)

Your Global Audio, LED Display & Lighting Interconnect Expert

North America Customer Service +1 800 394 7732

HPT HPT Series™ Power

HPT Series™ Characteristics

| | |
|--|--|
| Number of Contacts | 2 + PE |
| Cable Connector Termination | 2mm Hex Key Screw Terminal |
| Chassis Mount Termination | Flat Tab 1/4" |
| Flammability | UL94V-0 |
| Environmental | Complies with EU RoHS 2 Directive 2011/65/EU |
| Rated Operating Voltage | 250VAC |
| Test Voltage AC RMS | 1500V |
| Current Carrying Capacity | 20A (16A EU) |
| Mechanical Mating Cycles | >5,000 |
| Circuit-Breaking Cycles (Under Load) | >5,000 |
| Typical Contact Resistance | ≤2mΩ |
| Insulation Resistance (initial) | ≥2GΩ |
| Insulation Resistance (after damp heat test) | ≥0.1GΩ |
| Protection Class | IP65 (in mated or in combination with protective caps) |
| Operating Temperature | -25°C to +80°C (-13°F to +176°F) |
| Chassis Connector Weight* | 15g (0.033lb) / 25g (0.055lb) |
| Cable Plug Weight* | 40g (0.088lb) |
| Typical Cable Retention Force | Subject to cable material and O.D. |
| Cable O.D Range-Lockable Backshell | 6.0 -12.0mm |
| Cable O.D Range-Non-Lockable Backshell | 7.5 -16.0mm |
| Screw Terminals Conductor Size | 2.5mm ² (AWG12) |
| Connector Shell / Finish | PA66 GF30 / Black |
| Insulators | PA66 GF30 |
| Cable Boot / Backshell | Neoprene / PBT |
| Contact Plug - Material / Plating | Copper Alloy / Silver |
| Contact Chassis - Material / Plating | Copper Alloy / Silver |

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

Accessories

Unlike our competitor's one-piece molded lanyard closure cap design, our more robust, bead chain design allows easy replacement by simply unscrewing a single mounting screw from the panel mount connector, slipping our bead chain lanyard under the panel mount screw hole, then reassembling the screw. This is a significant labor savings and will allow easy field replacement, no matter the location, while maintaining both IP65 and 3rd party certification even when applied to competitive panel mount base gasket and connectors. We also offer spring-closure caps for all 3 sizes of panel mount connectors for an additional level of protection for unmated connections.



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HPT Series™ Power Connectors and Accessories

| Image | Part Number | Description | Contact Type |
|---|-------------|--|---------------|
|  | HPT-3-F | 3 Pole, Outlet Cable Connector, Locking, Thermoplastic Shell, Screw Terminals (14-3 SO Cord OD Capacity) Locking Backshell | Screw |
|  | HPT-3-FJ | 3 Pole, Outlet Cable Connector, Locking, Thermoplastic Shell, Screw Terminals (12-3 SO Cord OD Capacity) Non-Locking Backshell | Screw |
|  | HPT-3-M | 3 Pole, Inlet Cable Connector, Locking, Thermoplastic Shell, Screw Terminals (16-3 SO Cord OD Capacity) Locking Backshell | Screw |
|  | HPT-3-MJ | 3 Pole, Inlet Cable Connector, Locking, Thermoplastic Shell, Screw Terminals (12-3 SO Cord OD Capacity) Non-Locking Backshell | Screw |
|  | HPT-3-MD | 3 Pole, Chassis Inlet Connector, Thermoplastic Shell, 1/4" Flat Tab Terminals | 1/4" Flat Tab |
|  | HPT-3-MDW | 3 Pole, Chassis Inlet Connector, Thermoplastic Shell, Without Insulation Divider, 1/4" Flat Tab Terminals | 1/4" Flat Tab |
|  | HPT-3-FD | 3 Pole, Chassis Outlet Connector, Thermoplastic Shell, 1/4" Flat Tab Terminals | 1/4" Flat Tab |
|  | HPT-3-FDW | 3 Pole, Chassis Outlet Connector, Thermoplastic Shell, Without Insulation Divider, 1/4" Flat Tab Terminals | 1/4" Flat Tab |
|  | HPT-3-CC | 3 Pole, Chassis Inlet-Outlet Combination, Thermoplastic Shell, 1/4" Flat Tab Terminals | 1/4" Flat Tab |
|  | HPT-CAPM | Protective Sealing Cap w/ Stainless Steel Lanyard for HPT-3-MD / HPT-3-MDW | - |
|  | HPT-CAPF | Protective Sealing Cap w/ Stainless Steel Lanyard for HPT-3-FD / HPT-3-FDW | - |
|  | HPT-CAPD | Protective Sealing Cap w/ Stainless Steel Lanyard for HPT-3-CC | - |
|  | HPT-CAPSM | Protective Self-Closing Sealing Cap w/ Stainless Steel Spring for HPT-3-MD / HPT-3-MDW | - |
|  | HPT-CAPSF | Protective Self-Closing Sealing Cap w/ Stainless Steel Spring for HPT-3-FD / HPT-3-FDW | - |
|  | HPT-CAPSD | Protective Self-Closing Sealing Cap w/ Stainless Steel Spring for HPT-3-CC | - |
|  | HPT-RT | Cable Connector Backshell Lock Release Tool | - |

For more information, contact: North America Customer Service, +1 800 394 7732, csr@amphenol-sine.com

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