

LOUDSPEAKER CONNECTORS



HPC SERIES

Switchcraft recently introduced a complete line of panel mount speaker connectors that are completely compatible with the Neutrik® Speakon® 4 pole series. We are now introducing a complete line of cable mounts as well. The complete HPC Series offers both panel mount and cord mount connectors.

The HPC panel mounts have been updated with new silver plated contact materials that boost the contact ratings to 30A per UL 1977 on PC mount versions, 50A per UL 1977 on Faston versions. They are still available with either 0.100" depth flanges or 0.200" depth flanges. The 0.200" depth flange allows for rear mounting of the HPC Series, and proper mating of all cord plugs. The panel mount versions are available with either 0.187" or 0.250" Faston terminals, and either straight or right angle PC mount terminals. The right angle PC mount version also has, as an option, a mounting post which allows the connector to snap onto the PC board for wave soldering.

The HPC cord plugs are available in either straight, right angle, or as an in-line. The in-line version mates with either the straight or right angle cord plug, allowing the end user to extend cable runs. All cord plugs are compatible with Speakon® panel mounts. The in-line mates with our HPC cord plugs, as well as Speakon® cord plugs. The unique feature of the HPC series cord plugs are the "push to lock" feature, similar to the connection of an XLR connector. The HPC cord plugs, when mated to either HPC panel mounts or Speakon® panel mounts do not require a 1/4" turn to engage. Simply push the connector in until it locks. To disengage, push forward on the latch lever and pull the connector out. This feature eliminates the need to remember to turn the connector to make contact. All HPC cord plugs utilize 0.250" Faston terminals, which allow for easy assembly, and make it easy to change cord plugs. To change from a straight cord plug to an in-line cord plug, back off the strain relief nut, twist off the handle, disconnect the Faston terminals, fasten the new cord connector, twist on the handle and the strain relief. Barbs on the handle keep the handle from vibrating loose from the front shell.

Both HPC panel mounts and cord plugs incorporate a built-in gasket, which allows them to meet IP 25 harsh environment ratings, as well as IEC 529 and IEC 10101 safety ratings.

Features and Benefits

- ? Completely compatible with Neutrik® Speakon® 4 pole connectors
- ? 30A rating per UL 1977 on PC mount versions
- ? 50A rating per UL 1977 on Faston versions
- ? Panel mounts have two different Faston terminal sizes, 0.187" and 0.250"
- ? Panel mounts offered with two different flange depths, 0.100" and 0.200"
- ? 0.200" depth flange offers easy rear mounting
- ? Right angle or straight PC board terminals on panel mounts
- ? Built in gasket gives all HPC connectors IP 25 environmental ratings
- ? All HPC Series meet IEC 529 and IEC 10101 safety ratings
- ? Cord plug versions offer "push to lock" design, no 1/4" turn to engage
- ? Cord plug versions accept 10 AWG wire, 0.560" cable OD max

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Markets

- ? Loudspeakers
- ? Power audio amplifiers
- ? Medical
- ? Process Controls

Specifications

Materials

Housings: Thermoplastic UL94VO rated
 Seal Rings: Thermoplastic rubber
 Contacts: Silverplated over copper alloy

Electrical

PC Terminals Current Rating: 30A per UL 1977
 Faston Terminals Current Rating: 50A RMS w/10AWG wire, normal ambient, per UL 1977
 Voltage Rating: 1,500 AC RMS, Per MilStd 202, Method 301
 Insulation Resistance: > 2T Ohms
 Contact Resistance: 1m Ohm, 1.5m Ohm after 1,000 insertions/withdrawals

Mechanical

Shock: Mil-Std 202, Method 213B Cond. K
 Vibration: Mil-Std 202, Method 201A
 Life: 1,000 insertion/withdrawals
 Cable Range: 0.560" OD max.

Environmental

Salt Spray: Mil-Std 202, Method 101D Cond. B
 Thermal Shock: MilStd 202, Method 107G
 Temperature Limits: -55 C to +85 C
 Moisture Resistance: MilStd 202, Method 106E
 Life@Ambient Temperature: MilStd 202, Method 108A
 Touch Proof: IEC 65 and 10101
 Weather Tightness: IEC 529, IP 25

Ordering Information

Panel Mount Ordering information

<p>HPC P 4</p> <p>Series: High Power Connector</p> <p>Type of Connector: P - Panel</p> <p>Type of Housing: Blank - rectangle, R - round</p> <p>Number of Contacts: 4</p>	<p>Termination: F - .250" Faston®, F1 - .187" Faston®, PC - Printed Circuit, RA - Right angle PC, RAP - Right angle PC with mounting post</p> <p>Mounting Holes: Blank - Rectangle: .140" dia. w/Countersink Hole, Blank - Round: .152" dia. w/Countersink Hole, 0 - Rec./Round: .093" Dia. Hole</p> <p>Recessed Flange (Dim. "A") 1 - .100" 2 - .200"</p>
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Cord Mount Ordering Information

<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">Part Number</th> <th style="text-align: left;">Description</th> </tr> <tr> <td>HPCC4F</td> <td>Straight Cord Plug</td> </tr> <tr> <td>HPCC4FRA</td> <td>Right Angle Cord Plug</td> </tr> </table>	Part Number	Description	HPCC4F	Straight Cord Plug	HPCC4FRA	Right Angle Cord Plug	<table border="0" style="width: 100%;"> <tr> <th style="text-align: left;">Part Number</th> <th style="text-align: left;">Description</th> </tr> <tr> <td>HPCC4F</td> <td>Inline Cord Plug</td> </tr> </table>	Part Number	Description	HPCC4F	Inline Cord Plug
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