



Low-Profile Connector Assembly Instructions

Installing our Low-Profile connectors is quick & easy and below are some tips to get you on your way to "DIY" custom cable making. Specific instructions for XLR and TA are clearly noted. Since you're making your own cables we'll assume you know how to tin the connector cups and prep the cable leads so we will not include these basic solder techniques in our instructions.

XLR



What's in the Package:

- M or F Connector Shell
- Insert, 3-pin or 5-pin
- Color Cap
- (2) Grub Screws
- Mini Zip-Tie
- Hex Wrench

LPS-TAxF



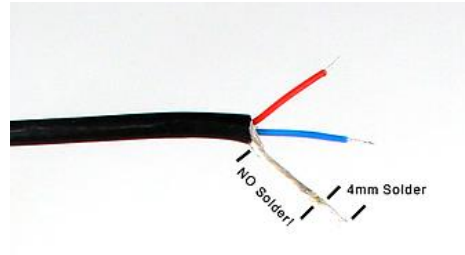
What's in the Package:

- Connector Shell
- Insert, 3-pin or 5-pin
- Screw Cap
- Insert Holder
- Mini Zip-Tie
- Hex Wrench

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XLR

Besides the 1.5mm Hex wrench [which is included] you do not need any special tools beyond what is standard to install classic straight XLR connectors. Method is the same for Male or Female connectors.



1. Remove approximately 12mm of the cable jacket. Fray and twist the shield tight and TIN ONLY about 4mm at the end.



2. Put flexible 2:1 heat shrink over the non-tinned shield leaving the 4mm tip exposed. Tin the + & - leads. Put a 5mm cut of 2:1 heat shrink on the wire before you solder the leads to the insert. This will soon be heated over the area where the leads exit the jacket for insulation and strength of the joint. Solder the leads into the insert solder cups. Heat the shrink over the joint. Install the included mini Zip-tie strain relief at the edge of the insulation shrink as shown. The "head" of the Zip-tie should be positioned to the side - pull it nice and tight.



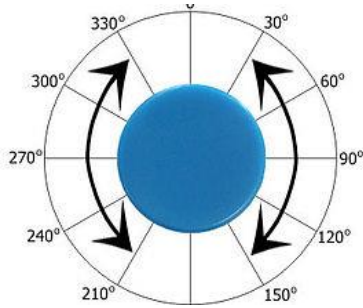
3. Place the insert into the XLR shell and bend the cable towards the position you would like the cable to exit the cap. Install the color cap. Carefully pull the cable so the Zip-tie rests against the inside of the cap exit. Install the Grub screws with the included Hex wrench while applying constant pressure to hold the cap in place. DO NOT OVERTIGHTEN! You only need to torque the screws to the point where the screw is flush with the outer shell. Overtightening can damage the color cap.

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4. You can loosen the Grub screws and carefully twist the cap between the screws to align the cable exit to your preference. If you need the exit to be on the opposite side of the connector, e.g. Exit off of PIN 2 instead of PIN 1, you will need to remove the cap and bend the cable assembly carefully towards the other side. If you just remove the screws and twist the cap all the way around to the other side you will have a bad day.

LPS-TAxF



1. Remove approximately 6mm of the cable jacket. Fray and twist the shield tight and tin all leads.

Note: the ideal cable OD for LPS connectors is about 2.7mm to 3.0mm. Belden 1804A is about 2.9mm.

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2. Put a 5mm cut of 1/8" 2:1 polyolefin heat shrink and the insulator on the wire before you solder the leads to the insert - Adhesive shrink is even better! Solder the leads into the insert solder cups. "Milk" the recessed cable jacket up if needed. Note: if you use a cable diameter about 2.6mm or less you should use a 15mm cut of shrink so it goes through and out the color cap outlet for maximum stability.



3. Push the the shrink over the joint as far as it can go. It should stop at the edge of the solder cups. Heat it carefully. Place the insulator into position. If the leads and shrink are the ideal length you'll see the shrink poke out a little from the back of the insulator as shown.

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4. Remove the grub screws from the baggy and place on the hex wrench. Install the screws with just a few turns so they stop flush with the inside of the shell. We recommend getting a nice .9mm Hex driver like a Wiha brand driver if you build many cables as the tiny Hex wrenches seem to fail and strip quite easy.



5. Place the completed insert into the shell and slide the color cap over the cable on either side or screws based on the gear panel it will be plugged into. *Make sure the insert is seated all the way in or the cap will be impeded and won't sit correctly.

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6. Squeeze the cap so it is flush with the shell opening so the inside cap channel will line up properly. While squeezing screw down the grub screws maybe a couple turns. You can now adjust the exact angle between the screws. Once aligned tighten the grub screws so they are flush with the shell - no more. Do Not over-tighten!

Note: Never try to twist the cap through the grub screws or the leads will be severed. Always remove the cap and place it to the other side e.g. Left or right exit.



7. LPS TA connectors allow for the ideal angle to be set for gear panels so the cable doesn't mash up against the connector beside it. The above photo on the left is the angle for Sound Devices 6-Series. On the contrary, a cap installed for the Lectrosonics SR bottom would exit on the other side of the release pin.
8. The final result. Life is good.



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