

ETI BULLETPLUG®

TECHNICAL TIPS



Connecting the BulletPlug® to cables

- Please note: before connecting the BulletPlug® to cables we advise that the polymer be allowed to adjust to the RCA socket. The BulletPlug® collar is a glass impregnated polymer that has ideal resonance, electrical, and thermal properties; but given the dimensional tolerancing in RCA sockets, the polymer head should have an opportunity to conform and essentially “mould” itself to the socket it is to be connected to. Insert the BulletPlug gently onto the socket before soldering, and let it sit attached for a few minutes. If the fit is too snug to easily seat the BulletPlug®, simply heat it gently with a hair dryer, insert into socket and allow the polymer to cool.
- The BulletPlug® should be handled delicately.
- The return pin of the BulletPlug® is small and not as robust as the return on standard RCA plugs. Of course this also accounts for the improved sound quality.
- If you have limited soldering experience, ask your Dealer to do the job.
- The BulletPlug® is designed to accept any interconnect, digital or video cable up to 9 mm diameter.
- This accounts for most cables. (Large cables can also be accommodated if you strip the outer sheath and feed the insulated conductors through the housing.)

Step 1

- Unscrew the plastic housing and slide the cable through.
- The front section of the BulletPlug® comprises two contact pins - the signal (large pin) and return (small pin). Both pins have a solder platform at the rear of the pin that is thinner than the rest of the pin.
- The platform heats up rapidly allowing quick and easy soldering.

- This means a soldering iron needs only minimal time in contact with the pins to melt solder. Excess contact time with the soldering iron may deform the plastic polymer housing.
- Here's a tip. Insert the BulletPlug® into a secured, but unconnected RCA socket first. This will free up both hands and allow more precise soldering. Also, it is advised that the cable be supported throughout the soldering process, so the weight of the cable does not exert undue force on the pins.

Step 2

- Tin both the wire and platform. And please only use enough solder to make a good connection. Do not drown the platform in solder. For best results use eutectic (flowing type) solder or solder with high silver content together with a flux.

Step 3

- Solder the return conductor to the return (small) pin. If the return conductor on the cable comprises multiple strands, twist these together and tin before connecting to the return pin. If the return conductor is in the form of a braid, then split the braid, gently twist and tin before connecting to the return pin.
- Ensure that the return conductor is formed (eg. You may need to gently bend the conductor) so the conductor sits flush in the soldering platform. The objective is to have the return conductor sit comfortably in the solder platform without pressure or stress on the wire.
- The small dimension of the return pin can make soldering large groups of wires difficult, however the small size of the pin also contributes to the dramatic sound improvement of the BulletPlug® over standard RCA plugs.

Step 3

- As the connection to the return pin is completed, you may notice that the return pin can rotate with the tension of the conductor. This is normal. Simply rotate the pin to a comfortable angle in relation to the signal pin. When the outer housing is screwed down, the return pin is locked in this position.

Step 4

- Solder the signal conductor to the centre (large) pin.

Step 5

- Re-attach housing.
- When re-attaching the housing continue to support the cable to avoid undue force on the pins. For 9 mm diameter cables, use a silicon spray on the cable to allow smooth rotation of the outer housing.

Step 6

- Secure the grub screw to support the cable. Avoid penetrating the cable—a gentle securing action is all that is required.

Step 7

- Enjoy better sound! Take your time, prepare your conductors prior to connection, use good solder, and benefit from the improved signal transmission the BulletPlug® can provide.
- Please note: The BulletPlug® is a firm fit RCA connector. The polymer used in the BulletPlug® is a special PBT and glass fibre blend that allows it to adjust (and stay adjusted) after a few hours on the socket.



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