

Symetrix Cable Wiring Guide

Balanced Connections

Any of these connectors can appear on either side of a balanced connection.

Euroblock [balanced]

NOTE: Detachable Euroblock and Terminal Strip connectors are designed for use with bare wire. Do not tin stranded wires before inserting them into the connectors.

Terminal Strip [balanced]

TRS 1/4" Plug [balanced]

Tip = (+) Plus
Ring = (-) Minus
Sleeve = Ground

XLR Female Plug [balanced]

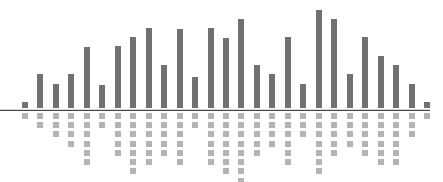
Pin 2	Pin 2 = (+) Plus
Pin 3	Pin 3 = (-) Minus
Pin 1	Pin 1 = Ground

XLR Male Plug [balanced]

Pin 2	Pin 2 = (+) Plus
Pin 3	Pin 3 = (-) Minus
Pin 1	Pin 1 = Ground

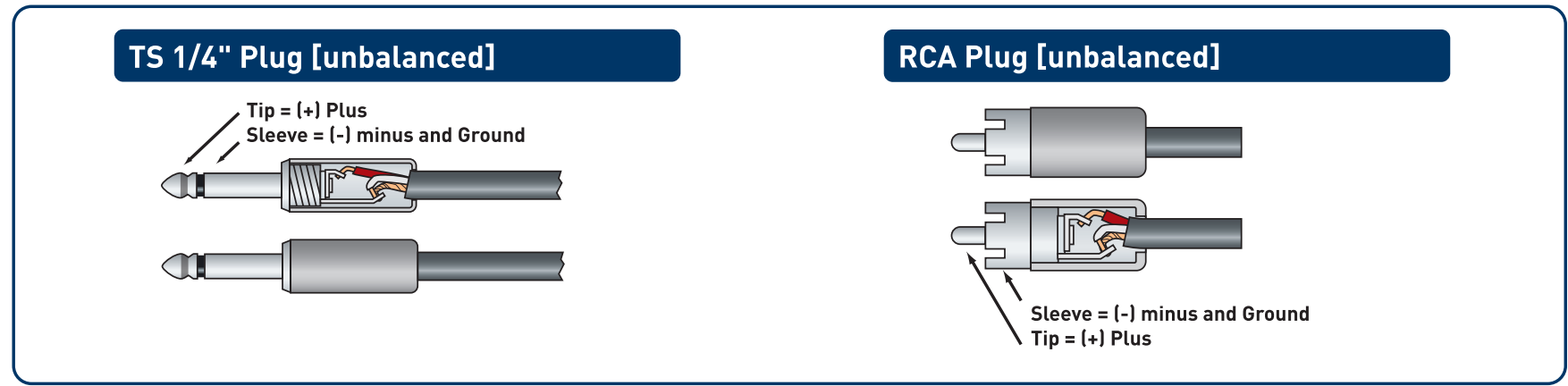
Special Case: Female XLR connectors will ALWAYS be used coming from the OUTPUT of a device. Male connectors plug into the INPUT of a device.

NOTE: In the case of an XLR connector, the Female attaches to an output, while the Male attaches to an input.



Unbalanced Connections

The RCA connector and the 1/4" TS connector are unbalanced connectors, wired with a single strand shielded wire and can be placed on either end of an unbalanced connection.

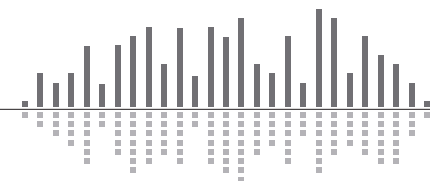


! IMPORTANT NOTICE !

The wiring diagrams on these pages are included **for information purposes only.**

Symetrix can not anticipate every connector type on non-Symetrix products. **It is the user's responsibility to determine what connection is needed.**

In addition, **Symetrix accepts no responsibility for injury or damage caused by user created wiring.**

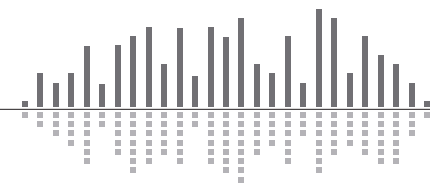
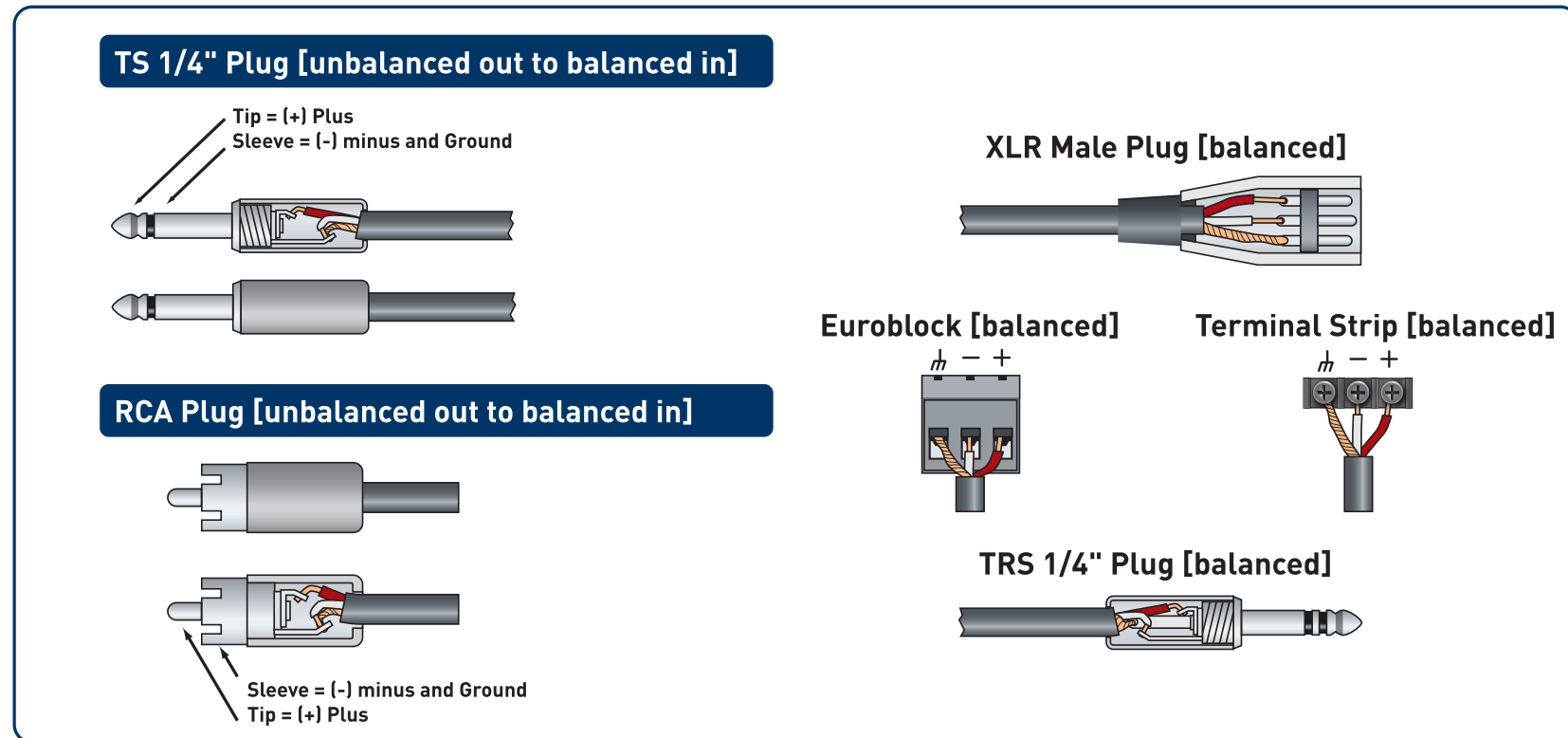


Unbalanced Connections:

Unbalanced out to balanced in

The RCA connector and the 1/4" TS connector are unbalanced connectors. However, the wiring differs depending on if they are sending to, or receiving from a balanced connector.

In this example, the unbalanced connector is sending signal to a balanced connector. When wiring this connection, use a shielded twisted pair cable. The balanced side wires the same as a standard, balanced connection. On the unbalanced side, you wire the white (minus) wire together with the ground. This provides some common mode wire together with the ground. This provides some common mode rejection at the balanced input.



Unbalanced Connections:

Balanced out to unbalanced in

When your output requires a balanced connector, but you are sending signal to an unbalanced input, the rules change. Use a single strand shielded wire. Wire only to the plus and ground terminals of what would typically be the balanced connector.

