

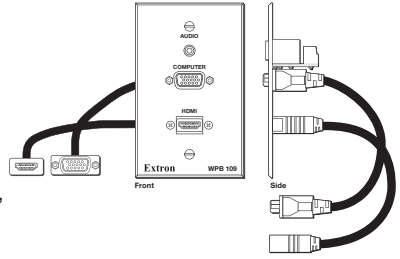


IMPORTANT:
Go to www.extron.com for the complete user guide, installation instructions, and specifications.

WPB 109 Wallplate • Installation Guide

The Extron WPB 109 wallplate is a single gang pass-through wallplate with audio, VGA, and HDMI connectors and 10-inch pigtails. It can be installed in the supplied single gang mud ring or a junction box.

Install the wallplate directly into the wall using the supplied mud ring or a UL-approved 1-gang junction box (not supplied). Follow the steps in the “Installation” section.



Planning - Check the Proposed Installation Location

Before starting the installation it is important that you do the following:

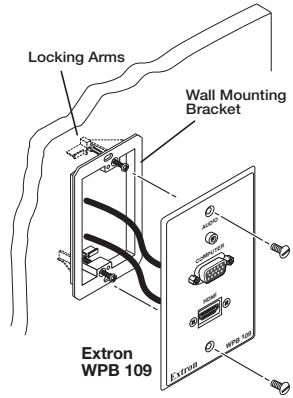
WARNING: Failure to check these items may result in property damage, personal injury, or both.

- Ensure there are no utility cables or pipes at the intended location that might be damaged or cause injury when you are installing the device.
- Check that the installation meets the local and state regulatory requirements, including building, electrical, and safety codes, and UL and ADA accessibility requirements.

During installation ensure the space behind the device is sufficient for the bend radius of the pigtail. The recommended minimum bend radius is 2.4 inches.

Installation

1. Using the supplied mud ring or a junction box (not included) as a guide, mark and cut out the appropriate material within the marked area.
2. Either:
 - Insert the mud ring into the opening, rotate the locking arms, and secure it with the supplied screws (as shown at right), or
 - Insert the junction box and secure it with nails or screws.
3. Run the cables (video, audio, and HDMI) from the output or input device locations (as applicable), behind the wall, and to the WPB location, then thread the cables through the mud ring or junction box.
4. Video — Insert the HDMI and VGA cable connector into the appropriate connector on the pigtail.



NOTE: If using a DVI display with the WPB 109, connect a HDMIM-DVIDF adapter (part number 26-617-01) and a separate audio cable.

5. Audio — Secure the output audio cable into the 3-pole captive screw connector. Wire as described in “Cable Preparation for Audio Connections” on page 2.

NOTE: This may be easier to do before attaching the device to the mud ring.

6. Mount the cabled device into either the mud ring or the junction box.

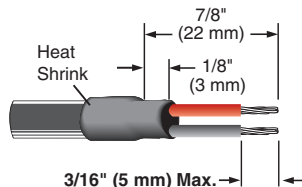
WPB 109 Wallplate • Installation Guide (Continued)

- Connect the appropriate input or output devices to the front panel connectors.
- Test the system and resolve any cabling or signal issues.

Cable Preparation For Audio Connections

The length of the exposed wires in the stripping process is critical. The ideal length is **3/16" (5 mm)**.

- If the stripped section of wire is longer than **3/16"**, the exposed wires may touch, causing a short circuit between them.
- If the stripped section of wire is shorter than **3/16"**, the wires can be easily pulled out even if tightly fastened by the captive screws.

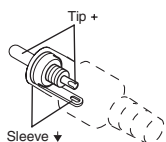


NOTE: Audio ground pins may be labeled as ∇ or \blacktriangledown . The wiring and function are the same, whichever way your product is labeled.

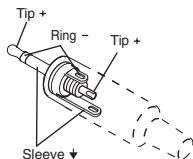
Do not tin the wires!

Tinned wire does not hold its shape and can become loose over time.

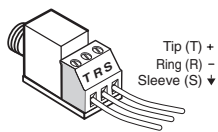
Source Reference



RCA Connector

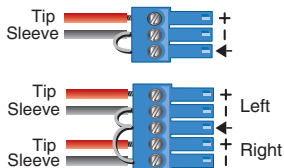


TRS Connector



3.5 mm Audio Jack

Unbalanced Audio Wiring

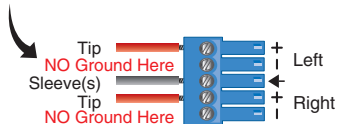


Unbalanced Input



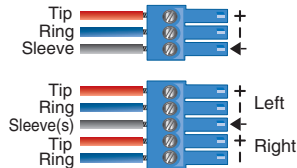
CAUTION

For unbalanced audio, connect the sleeve(s) to the ground contact. **DO NOT** connect the sleeve(s) to the negative (-) contacts.



Unbalanced Output

Balanced Audio Wiring

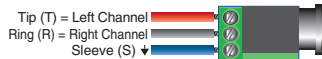


Balanced Input or Output

Direct Insertion Captive Screw



Balanced Mono Audio (input or output)



Unbalanced Stereo Audio (input or output)

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