

AUDIX®

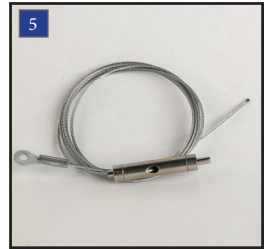
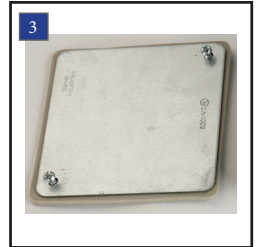
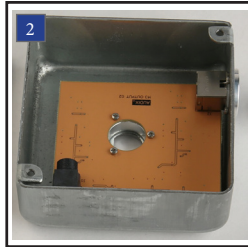
PROFESSIONAL MICROPHONES



AUDIX M3 INSTALLATION GUIDE




Thank you for choosing Audix! Our products are designed to provide you with many years of reliable service. Please read this manual before using the system for optimal installation and operation.

IN THE PACKAGE



- 1 M3 Tri-element Hanging Ceiling Microphone
- 2 JBM3 - Plenum rated junction box circuitry
- 3 Junction box lid
- 4 Breakout cable consisting of RJ45 female to three terminal block connectors
- 5 Seismic / Fire restraint cable

OPTIONAL ACCESSORIES

- 6  PLENHSEM3 Brass plenum bell housing (patent pending). This brass housing is specifically designed to provide a plenum seal when threaded on to the plenum junction box. The bell housing is included with all Audix CAT 7 prepackaged interface cables (see below for models), and may be purchased separately for bulk cable runs.
- 7  CBLM3XLR Breakout cable consisting of an RJ45 female to three XLR male connectors. This cable is designed to be used in conjunction with Audix CAT 7 interface cable, keeping the shielded and balanced audio path intact when connecting to the three mic level XLR inputs of a DSP Controller.
- 8  CAT7 Interface cable. Audix manufactures a high quality CAT 7 cable optimized for balanced audio and cross talk elimination. The cable is LS0H (low smoke zero halogen) and consists of four twisted pairs that are individually shielded, RJ45 male connectors and a brass housing to further seal the cable at the plenum rated junction box. The interface cable is available in prepackaged lengths or in bulk (see below for models).

- CBLM307 - Interface Cable 7 meters (23')
- CBLM310 - Interface Cable 10 meters (33')
- CBLM315 - Interface Cable 15 meters (49')
- CBLM320 - Interface Cable 20 meters (66')
- CBLM325 - Interface Cable 25 meters (82')
- CBLM330 - Interface Cable 30 meters (98')
- CBLM350 - Bulk cable. 50 meters (162'). Use with brass plenum bell housing #6 for best results.
- CBLM3100 - As above. 100 meters (325')

Note: The Audix M3 also works with CAT 5 and CAT 6 cable, however, Audix recommends using shielded cable.

INSTALLATION AND WIRING INSTRUCTIONS



Fig A. Remove ceiling tile and drill 5/8" (16mm) hole in the desired location.



Fig B. Position the JBM3 plenum rated junction box **2** over the drilled hole.



Fig C. Remove the nut from the threaded portion of the M3 cable **1**, feed cable through the tile hole and into the junction box.

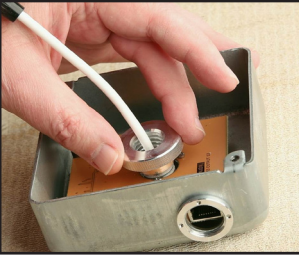


Fig D. Install the threaded nut with shoulder side down and secure.

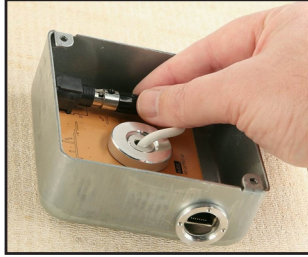


Fig E. Insert the 7 pin mini female XLR connector into the male receptacle.

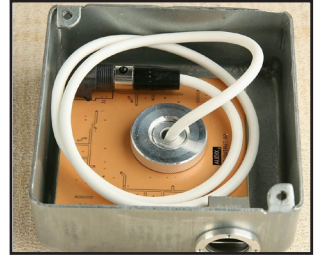


Fig F. Set the initial height of the M3 and spool the excess cable inside the junction box.



Fig G. Fasten the lid **3** on top of the junction box. Insert RJ45/ Cat cable into JBM3 receptacle. (See back page for installing seismic cable)



Fig H. If using Audix Cat 7 LSOH interface cable **8**, screw on the brass bell housing over the RJ45 connection and reset ceiling tile.

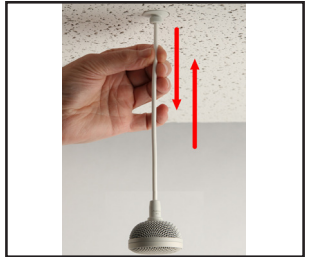


Fig I. Adjust the cable to exact desired length by either feeding or pulling the cable through the ceiling mount.



Fig J. Position the microphone by turning the cable as necessary and gently turn the nut clockwise to secure (1 to 2 turns). *Do not over tighten.*

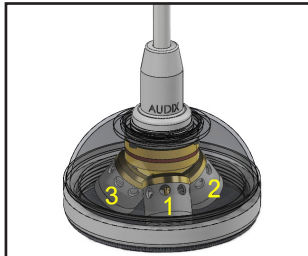


Fig K. Microphone elements are spaced 120 degree apart. Channel 1 is directly below the Audix logo

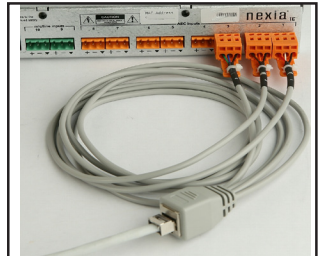


Fig L. Connect RJ45 cables into the breakout cable and connect to DSP Controller.

M3 TRI-ELEMENT OPERATING PROCEDURE

The M3 contains three independent microphones and audio channels for interfacing into the mixing device or audio console. The Audix provided breakout cable [4](#) is designed to interface with a professional DSP controller using terminal blocks.

Audix has an optional breakout cable [7](#) that terminates with three XLR connectors.

The M3 microphone requires phantom power voltage of 18-52 volts.

Microphone Placement

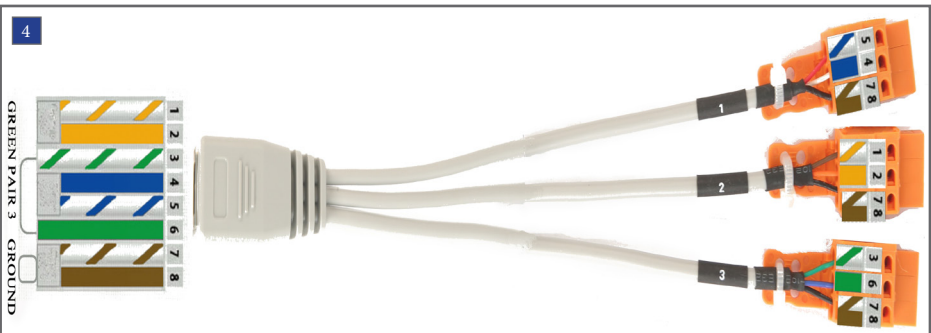
Although the M3 can be hung from a variety of heights, Audix recommends 8' to 8 ½' AFF (above finished floor) placement. When capturing larger zone areas such as open seating or distance learning, the M3 has a coverage radius up to 10'. Most conference table type coverage, however, will typically utilize a smaller radius. For example: for a 10' - 12' conference table two M3 microphones are recommended so that the gain can be lowered and extraneous table and room noise minimized.

Note: The M3 is provided with 4 feet of cable that can be adjusted to the desired height. In cases where a longer cable is necessary, Audix is able to provide custom lengths. Please call Audix or your local Audix Sales Representative for more details.

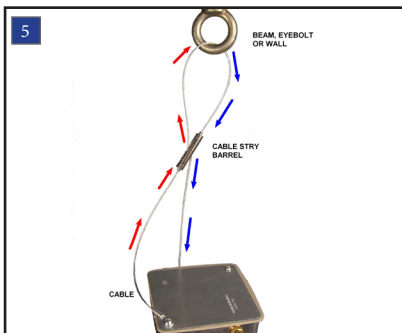
Wiring Tips

Audix CAT 7 cable is recommended to insure high quality, interference free audio over long distances. For installations where a different brand of CAT 7 cable is being used, please consult the wiring diagram below. Audix has designed a breakout cable that is available with terminal block connectors (supplied) or XLR connectors (optional).

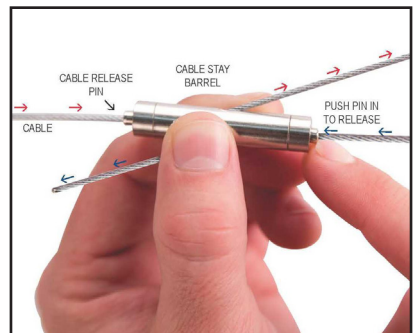
BREAKOUT CABLE PIN CONFIGURATION (STANDARD T568B)



SEISMIC / FIRE RESTRAINT INSTRUCTION



Wrap the cable around a beam, eyebolt or hanger. Then slip the cable through the top of cable stay barrel pulling excess cable until taut.



To release cable, depress the cable release pin on either end to release the loop or to extend cable length.