

Overview

The MonoPro™ XLR (500025, 500026) allows a standard AES analog or digital audio channel to be connected via Cat5e/6 unshielded twisted pair cable (UTP) for the professional audio environment.

The product features heavy duty cable strain relief for rugged environments such as rental and staging and is available with male or female locking XLR3 connectors for added cabling versatility. May also be used as a solderless connection point for standard shielded audio cable.

Benefits

Cost efficient cabling via UTP
 Robust design for professional use



Features

- Line analog audio up to 5,000 ft (1.5km) via Cat 5
- Digital audio up to 1,400 ft (426m) via Cat5e/6 UTP
- Wires terminate inside balun
- Locking XLR3 connector
- Heavy-duty cable strain relief
- Supports UTP or STP

| Specifications | Analog Audio | Digital Audio | | | | | | | | | | | | | |
|---|--|--|----------------|------|--------|-----|-------|--------|----------------|-------|----------|---------|-------|--------|----------|
| Environment | Balanced line level or microphone analog audio | Balanced line level digital audio | | | | | | | | | | | | | |
| Signal Amplitude | 2.3 Vp-p | 2 – 7Vp-p | | | | | | | | | | | | | |
| Polarity Sensitive | Phase polarity sensitive | Not polarity sensitive | | | | | | | | | | | | | |
| Impedance | Output: 600 Ω Input: 600-20kΩ | 110 Ω | | | | | | | | | | | | | |
| Signal type | Professional balanced analog line level or microphone | Professional balanced digital line level | | | | | | | | | | | | | |
| Maximum Distance via Cat5e/6 UTP | Line level: 5,000 ft (1.5 km) Mic level: 3,000 ft (914m) Active microphone supported. Requires ground pin connected at both ends. Distance unspecified. | Sampling Rate | Distance | | | | | | | | | | | | |
| | | 32 kHz | 1,400ft (426m) | | | | | | | | | | | | |
| | | 44.1 kHz | 1,300ft (396m) | | | | | | | | | | | | |
| | | 48 kHz | 1,250ft (381m) | | | | | | | | | | | | |
| | | 96 kHz | unspecified | | | | | | | | | | | | |
| Frequency response | DC to 6 MHz | | | | | | | | | | | | | | |
| Pro Audio Devices | mixers, routers, switchers, format converters, splitters, distribution amplifiers, boosters, receivers, encoders, CD players, DAT recorders, microphone pre-amps, compressors, passive microphones, equalisers, active loudspeakers, public address systems, rental and staging equipment. | | | | | | | | | | | | | | |
| Transmission | Transparent to the user. | | | | | | | | | | | | | | |
| Insertion Loss (per balun pair) | Less than 1 dB /pair from DC to 6 MHz | | | | | | | | | | | | | | |
| Return Loss | Less than 15dB from DC to 6 MHz | | | | | | | | | | | | | | |
| Common Mode Rejection (CMMR) | Greater than 45 dB | | | | | | | | | | | | | | |
| Cable – UTP | 24 gauge or lower solid copper twisted pair wire impedance: 100 Ω at 1 MHz. Maximum capacitance: 20 pf/foot. Attenuation: 6.6 dB/1000 ft at 1 MHz | | | | | | | | | | | | | | |
| Connectors | XLR3-M or XLR3-F depending on model Two (2) screw terminals for signal One (1) screw terminal for optional shield (ground) | | | | | | | | | | | | | | |
| Pin Configuration | <table border="0"> <tr> <td>XLR3</td> <td>Signal</td> <td>UTP</td> </tr> <tr> <td>Pin 1</td> <td>Shield</td> <td>Gnd (optional)</td> </tr> <tr> <td>Pin 2</td> <td>Positive</td> <td>Tip [T]</td> </tr> <tr> <td>Pin 3</td> <td>Return</td> <td>Ring [R]</td> </tr> </table> | | | XLR3 | Signal | UTP | Pin 1 | Shield | Gnd (optional) | Pin 2 | Positive | Tip [T] | Pin 3 | Return | Ring [R] |
| XLR3 | Signal | UTP | | | | | | | | | | | | | |
| Pin 1 | Shield | Gnd (optional) | | | | | | | | | | | | | |
| Pin 2 | Positive | Tip [T] | | | | | | | | | | | | | |
| Pin 3 | Return | Ring [R] | | | | | | | | | | | | | |
| Cable Strain Relief | Threaded and tapered cable grip mechanism. | | | | | | | | | | | | | | |
| Temperature | Operating: 0° to 55° C. Storage:-20° to 85°C. Humidity: 95% non-condensing | | | | | | | | | | | | | | |
| Enclosure | Fire retardant plastic. UL94-V0 | | | | | | | | | | | | | | |
| Dimensions | 1.875" x 1" diam (4.76 cm x 2.54 cm diam) plus 5" (12.7cm) XLR3 lead | | | | | | | | | | | | | | |
| Weight | 2.64 oz (75 gms) | | | | | | | | | | | | | | |
| Standards | AES/EBU 1982, AES-1992, ANSI S.40-1992, IEC-958 | | | | | | | | | | | | | | |
| Regulatory | FCC, CE. | | | | | | | | | | | | | | |
| Warranty | Lifetime | | | | | | | | | | | | | | |
| Order Information | 500025 MonoPro XLR, XLR3-M 500026 MonoPro XLR, XLR3-F | | | | | | | | | | | | | | |

MonoPro XLR 500025, 500026

Typical Application

