

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

