



MISSION XLR SPECIFICATIONS

ZU AUDIO MISSION XLR Mk.I [REV-A] LINE-LEVEL CABLE SPECIFICATIONS + INFORMATION

Design	Zu Mission XLR combines Zu and W.L. Gore® two-channel stereophonic differential transmission technologies and marries it with cutting edge manufacturing within a copper core / silver skin / PTFE platform. The result is two-channel stereo differential signal transmission that is virtually immune to RF and realizes reduced noise from your system, more so than any other brand of cable. Mission XLR is specifically designed for two-channel stereo, line-level balanced differential transmission and combines the Zu / Gore™ two-channel geometry with an overall high conductance shield to ensure pristine and perfectly matched propagation channels for your sensitive line-level music signals.
Device Under Test	Mission XLR 3.3' [1.0 m] terminated Neutrik® f-XLR > m-XLR silver plate connectors
Production Cable Format	Q3 2010— 2-channel stereo, differential, within single RF cage with discrete channel leadouts
Signal Conductor Metallurgy	pure U.S. refined, drawn and processed copper core with direct deposit pure heavy silver skin
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Ground Metallurgy	95% high magnitude braid screen
Cable Geometry	Zu / Gore™ two-channel differential transmission
Signal Wire Geometry	low strand count, perfect lay
Signal's Mate	low strand count, perfect lay (exact match to signal)
Dielectric	virgin white PTFE (all circuits)
Cable Sheath	PET
Leadout Sheath	PET
Connector Metallurgy	high copper brass with heavy silver plate
Connector Termination	silver bearing solder
Y-out Metallurgy & Makeup	100% diamagnetic
Directional Crosstalk	yes, direction arrows printed on both y-out barrels nil, channels fall within virtual ground of the other channel pair
Bandwidth	DC—1GHz
RF Shielding	high magnitude silver over copper braid + Zu / Gore™ differential geometry
Rs pin 2	0.06 Ω
Rs pin 3	0.06 Ω
Rs pin 1	0.02 Ω
Cp channel A pin 2 / 3	58 pF
Cp channel A pin 1 / 2	101 pF
Cp channel A pin 1 / 3	101 pF
Cp channel A / B pin 2 / 2	55 pF
Cp channel A / B pin 3 / 3	55 pF
Cp channel A / B pin 1 / 1	shorted
Ls Signal	1.6 uH
Ls Signal'	1.6 uH
Ls Ground	1.1 uH
Bend Radius	1" [25 mm]
Cable Diameter	0.175" [4.45 mm]
Leadout Bend Radius	1/2" [12.7 mm]
Leadout Cable Diameter	0.16" [4.06 mm]
L / R Leadout Span	11" [28 cm] standard, custom options available
Tolerance	greater than 0.01% on all inter-channel measures
Weight	6.0 ounce [170 g]
RoHS	compliant
Design	Zu Audio & W.L. Gore®
Manufacturer	Zu Cable Inc. Ogden, Utah
Manufacturers Country Of Origin	U.S.A.
Life Expectancy	100 years+
Warranty	limited lifetime, does not cover misuse or abuse



MISSION XLR INFORMATION

ZU AUDIO MISSION XLR Mk.I [REV-A] LINE-LEVEL CABLE

Mission XLR is based on the same platform as Zu's top of the line Event XLR interconnect cable, retaining the pivotal design elements but cutting back the high cost / small return ingredients namely the very costly solid core pure single crystal silver.

Zu Mission XLR balanced differential line-level analog interconnect cables will improve the sound of your system by lowering noise, improving top to bottom resolution, and so on. But the biggest area of improvement is in stereophonic imaging—no other cable will be as convincing as Zu Mission XLR for stereophonic magic, all save Zu Event that is.

Performance goals are realized through the correct application of Zu and Gore® cable technologies, which bond the two stereo channels in the same dielectric space providing identical left / right channel conditions and performance, an advantage that is not possible with traditional white / red coax cables. Zu Mission also use innovative material technologies such as Teflon® (PTFE) dielectric and pure silver heavy deposit over pure copper core for both signal and ground. The connectors are silver plated Neutrik XLR. Termination of the assembly is via silver bearing solder. These are a few of the features that ensure your cables will really perform, and for decades without worry or trouble.

ZU MISSION XLR KEY FEATURES & BENEFITS

- Zu / Gore®-Quad shared dielectric two channel bonded cable geometry for low electromagnetic interference susceptibility and guaranteed near perfect left / right measures and behavior ensures the highest level of stereophony.
- Dense electric and magnetic signature, as well as the cables physical dimensions, further guard against RF and audiogenic noise and allow for small and easy handling quality.
- The very low, uniform and square reactance (C_p and L_s) of Mission XLR facilitates extremely long runs without compromising stereophonic performance or bandwidth.
- Uniform, symmetrical balanced impedance characteristics of Mission XLR reduce standing waves and contribute to the stable propagation of intelligence in short or long runs.
- Zu Mission XLR has no DC offset like in twin-coax designs and features perfect symmetry between left and right channels. This near identical relationship between channels guarantees the highest possible recreation of dimension, density, and tone. Mission XLR also has a reduction of the critical C_p measures, greater than 40% less compared to twin-coax with the same conductance measures.
- Virgin white PTFE (Teflon®) insulation with identical electrodynamic relationships provide a very low dielectric constant and exceptionally low dissipation factor—features that improve bandwidth, phase relations, and overall musical resolution. Our competition uses wires insulated with different colors and usually PE or PVC, products which are a much greater impediment to fidelity. While you wouldn't think so, each color and pigment has it's own influence on sound which brings about subtle shading and differences in net tone as well as tone between left and right channels. So why doesn't Zu's competition follow our lead? Because it's hard. Color coded and easy to work with insulation is much faster, plus it's essential for a nontechnical outsourced labor force. We do it because we make it.
- Zu silver alloy perfect lay conductor for low noise and high conductance of signal, as well as shunting of RF noise.
- Designing from the ground up and manufacturing in-house provides better integration of components such as wire, insulation and connector, resulting in a cable assembly that not only sounds bitchin' but feels good and will last a lifetime.
- Designed and built as a system by Zu in Ogden, Utah, U.S.A.