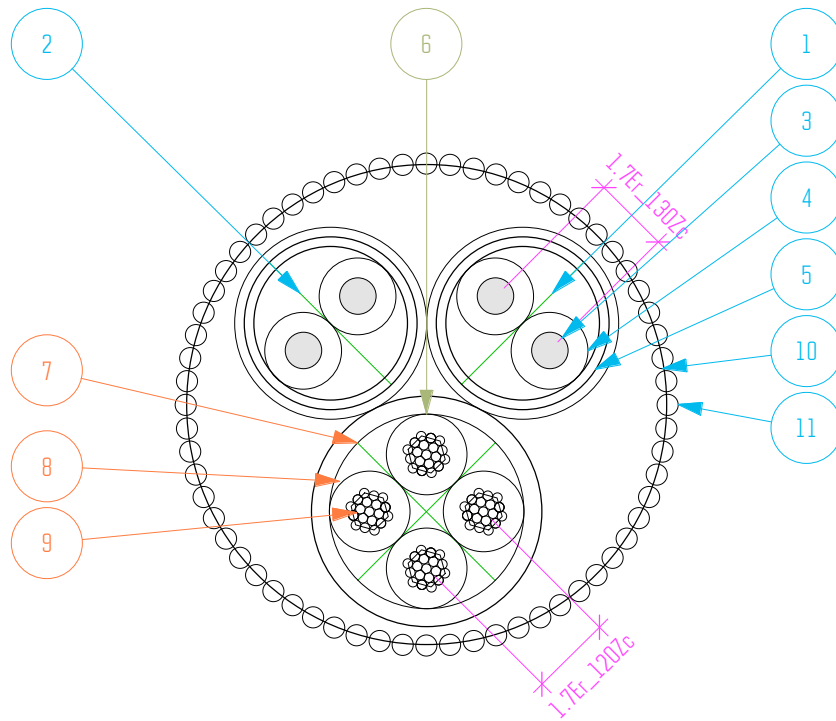


EVENT ETHERNET

[Mk.II]



AD COPY + SPECIFICATIONS

10 | 2015



EVENT ETHERNET Mk.II COPY + SPECS

ZU AUDIO EVENT ETHERNET Mk.II [REV-A] DIGITAL AUDIO ETHERNET CABLE SPEC'S + INFORMATION

Zu Event Ethernet cable [Mk.II Series Rev-A] is a precision, unfiltered baseband/line code specific Ethernet patch cable designed for interconnecting and maximizing interface performance of digital audio equipment transmitting digitized audio over Ethernet.

Its design and quality assurances yield the least possible propagation delay, dead on impedance characteristics, zero inter-channel cross-talk and near perfect immunity to static and magnetic interferences allowing for the highest possible fidelity of audio transmission over Ethernet.

In sonic evaluation where did our Zu Event Ethernet Mk.II stack up? Top of list. How was it perceived as better? Generally: *Music was more relaxed, information and instrument color was easier to hear but treble and attack was not emphasized. Still, presence was more vivid in a natural way, and bass was both clearer and had better weight.* How big was the difference compared to that experience in loudspeaker cables? Roughly a quarter the impact. Test basics listed on following page.

Talking cable tech is tough, especially when the driving force is the electromagnetic qualities and E&M is really hard to talk about without being highly technical. What we are familiar talking about in the audio cable world is materials, so.... Data pairs feature pure U.S. refined and drawn solid-core silver wire made to our specifications. Quality is pure silver (6N, monocrystalline, solid core, perfect surface...) and is insulated in virgin clear Teflon®. Cable fabrication is done completely in-house at Zu ensuring twist ratios, layout, directionality, and that our dynamic impedance characteristic specifications are realized with every run—segueing nicely back into the electromagnetic. As mentioned it's the E&M performance of the cable that is special and it's here we pay critical attention; primarily the impedance dynamics between data pairs and also data sets and ground. Sure there are differences between Zu Event Ethernet and the competition in material pallet and metallurgy, but the main differences really are in the E&M design and these are easily seen in measures, as well as tear-down (the layout and cross-section of this cable are quite different from all others). Will it make your digital audio over Ethernet sound better? We think it does, in most stereo systems anyway, but we make it easy for you to know for yourself with our hassle-free 60-day 100% money back guarantee. Try, compare, listen, just don't let your cat piss on it.

Digital audio is proving to be as nuanced and finicky as analog, some would say even more so. Digital audio over Ethernet is just as tricky as digital audio over other I/O technologies (FireWire, USB, S/PDif, AES3, WiFi...) and things you wouldn't think would make a difference to observed fidelity often do. Even so there are a few basics we have found essential to good design and fidelity; exceeding bandwidth spec's with minimum group-delay and maximum inter-channel and environment RF immunity so long as shielding does not hinder significantly the target bridge measures—true for digitized audio, true for analog audio.

We would like to thank Archie Simons for his commitment and help with the Ethernet cable projects, his comparisons and feedback were invaluable.



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SONIC TESTING NOTES

Evaluation of audible performance was done in two independent locations: Napa, California and Scottsdale, Arizona. Observers were: Archie Simons, Sean Casey and Igor Khandros. Tests were done over the course of several months. Essential gear used for these evaluations as well as competitors are noted below. Was there differences in sound between the cables? Yes. Did the data reflect listeners were coming to similar conclusions in tone and sound? Yes. Weighting: How big was the difference compared to differences in loudspeaker cables? Roughly a quarter the impact. Compared to the differences loudspeakers make? Slight.

Digital audio over Ethernet electronics used in the fidelity evaluations included:

INTERFACE DEVICES

Antipodes DX streamer/storage
Devialet 120 DAC/integrated amplifier
Devialet 200 DAC/integrated amplifier
Devialet 400 DAC/integrated amplifier
DarTZeel LHC-208 integrated streaming/DAC amplifier

CABLES UNDER TEST

Zu Event Ethernet Mk.II Rev-A Ethernet cable
AudioQuest Diamond RJ/E Ethernet cable
TotalDac Ethernet/Filter Ethernet cable
Cerro Cat 6 Plenum Ethernet cable terminated by Zu
Purest Audio Cat.7 Ethernet cable

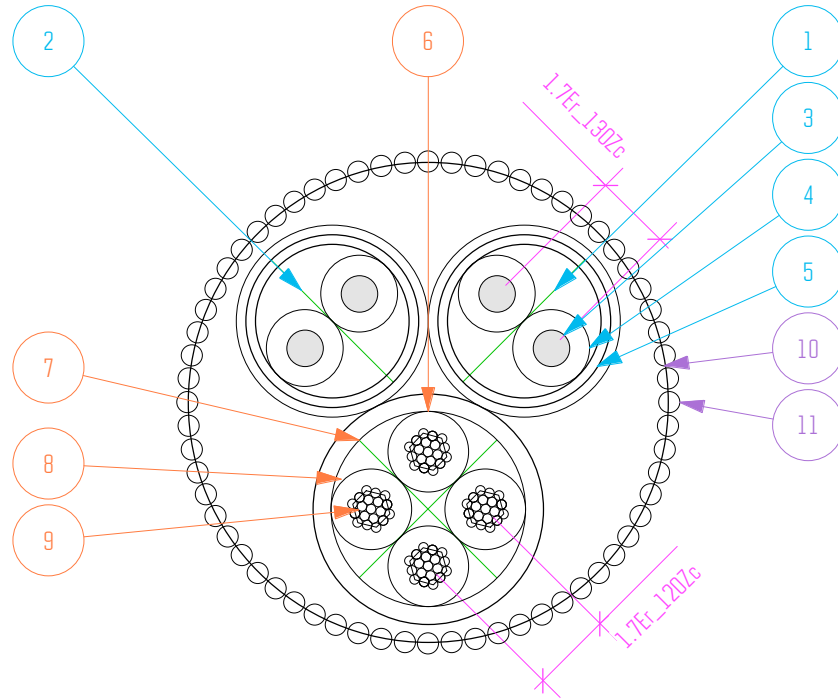
SUPPORTING GEAR

Zu Experience loudspeakers (beta-4, beta-5)
Zu Definition loudspeakers
Pass Labs 60.8 amplifiers
Pass Labs XP30 preamplifier
DarTZeel LHC-208 integrated amplifier
Devialet 400 integrated amplifier
RND 5060 line mixer console



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1. Data Tx or Bi pair [pins 1/2] 100Ω.
2. Data Rx or Bi pair [Pins 3/6] 100Ω.
3. Conductor: monocrystalline solid-core silver (U.S. refined, cast and drawn).
4. Dielectric: virgin clear Teflon® skin directly extruded following final gauge draw plus polyethylene terephthalate fiber-F/carbon/air.
5. Silver plated copper fine wire/heavy braid ground/screen at >95% coverage.
6. Data Tx, Rx, Bi, or DC [pin pairs 4/5, 7/8] 95Ω supporting 10/100BaseT, 10/100baseTX, 1000BaseT, 1000BaseTX, I²S.
7. Tinned copper fine wire/heavy braid ground/screen at ≥95% coverage.
8. Dielectric: air plus virgin white Teflon® skin directly extruded following final gauge draw and cabling.
9. Perfect lay, heavy silver plated copper conductors.
10. Conductive/static dissipative carbon
11. Braided heavy gauge monofilament Nylon sheath.



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Design	Zu Event Ethernet Mk.II Rev-A is designed around digital audio over Ethernet and maximizes audio performance and is also within performance compliance of Cat.6 / Cat.7 specifications. Materials include: pure meta-single-crystal silver center conductors; virgin Teflon®, graphite, air and Dacron dielectric, carbon/silver plated copper fine strand grounds; sheathed in a static dissipative and Nylon mantle.
Production	October 2015 (Mk.I series Event Ethernet cable was not produced)
Device Under Test Mark & Revision	Zu Event Ethernet Digital Audio Interface Cable Mk.II Rev-A
Impedance	≥100Ω on pairs 1/2, 3/6; 95Ω on pairs 4/5, 7/8
Bandwidth	≥DC–1GHz
Delay	4.3nS/m
DC Resistance	DCr 1,2,3,6: 0.82Ω/m DCr 4,5,7,8: 0.75Ω/m DCr loop 1,2,3,6: 1.64Ω/m DCr loop 4,5,7,8: 1.49Ω/m DCr ground .02Ω/m
Capacitance (Cp)	1/2: 33pF/m 3/6: 33pF/m 4/5: 38pF/m 7/8: 38pF/m
Capacitance to Ground	1,2,3,6/ground: 58pF/m 4,5,7,8/ground: 104pF/m
Shielding Tx/Rx Shielding Materials Tx/Rx	full coverage high magnitude + static silver plated copper fine strand braid plus conductive carbon
Cable Geometry Dielectrics Cable Sheath	complex—see drawing Teflon, air, graphite, Dacron, Nylon Nylon
Terminals Type	Telegartner MFP8 IDC
Directional	yes, position so label is on source equipment
RoHS	compliant
Design Manufacturer	Zu Audio Zu Audio
Manufacturers Country Of Origin	U.S.A. (connector made in Germany)
Life Expectancy	100 years+
Warranty & Service	limited lifetime, does not cover misuse or abuse



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WARRANTY

Zu products are designed and manufactured to the highest quality. However, if something does go wrong Zu will fix or replace the product free of charge. Zu Event Ethernet digital audio cables have a limited lifetime warranty applicable to the original owner. If under normal home use you have any problems with this cable we will fix or replace the product.

While every effort is made to ensure a perfect finish that will last a lifetime, this warranty does not cover damage from impact, abrasion or UV exposure. Zu products are designed to be used in temperature and humidity controlled environments, namely your home, studio or office unless otherwise stated.

If in the highly unlikely event that a Zu product arrives to you dead on arrival (D.O.A.), and after discussing it with a Zu tech, we will ship another of the same product at our expense and arrange for the D.O.A. product to be collected. If after inspection we find that you have misrepresented a returned product's condition, and that it was improperly handled or used, Zu will charge you for all damaged parts, labor, shipping and handling of the product.

Warranty does not apply to damage caused by operating the product outside the intended use, accident, damage caused by another product, misuse, abuse, flood, fire, earthquake or any other external causes. Warranty does not cover damage caused by modification or service performed by anyone other than a Zu representative.

When a product or part is exchanged the replacement becomes your property and the suspect or damaged part becomes Zu's property.

WHAT YOU CAN EXPECT IF WARRANTY SERVICE IS NEEDED

If warranty becomes necessary, you must call or email for a return of material authorization (R.M.A.) number. This provides opportunity to assist in diagnosing the problem and helps us to schedule for rapid turnaround in the event that parts, service or repair is needed. Upon factory inspection of parts or product, warranty eligibility will be determined. While service options, parts availability and response times will vary, we do our best to keep you happy. International customers should know that Zu will comply with all applicable export/import laws and regulations, you may be responsible for custom duties, taxes, broker fees, freight, and other charges. When shipping of product or part is required, repackage the complete product, or part, in its original packaging. If you have any questions about packaging please call or email. Product damage caused from incorrect repackaging is not eligible for refund or warranty and the freight company may also reject your insurance claim. Until we have the product back in the shop and sign-off that it is eligible, the product is still your property, we recommend you insure or declare the full value when shipping. We also recommend that you only ship with a freight company that has a good reputation and offers tracking and insurance for the full amount.



ZU AUDIO

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