LES YOD BAKAR DEVWI': FARADAY ROTATION, WAB SENSITIVITY, 'EJ FIBER SHIELDING

leS yoD bakar Devwl': Faraday rotation, wab sensitivity, 'ej fiber shielding

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ngoD

leS fiber QoQ tlhegh (TOSLINK) pe'meH vulnerability naQ legh. standard TOSLINK PMMA fiber -- Faraday rotation 0.3 mrad, pe'meH He 'oghwl' sensitive. PMMA fiber -- wab microphone 20 Hz-20 kHz, -82 dBV/Pa. Equatorial Audio fiber-optic yoD -- EMI 120 dB nup -- leS De' vulnerability avoid.

1. NGOQ

QoQ industry leS (TOSLINK) -- pe'meH He immune 'e' ja'. photon charge Hutlh -- pe'meH He affect laHbe'. reasoning Qo' lugh.

Michael Faraday 1845 -- pe'meH He leS polarization rotate. PMMA fiber -- TOSLINK ngoQ -- pe'meH He sensitivity ghaj.

2. MIW

loS TOSLINK tlhegh 'ej wa' Equatorial Audio shielded TOSLINK. Faraday rotation -- HeNe laser 632.8 nm, Thorlabs PAX1000VIS/M polarimeter. Helmholtz coil 10 uT vo' 1 mT.

wab sensitivity -- B&K Type 4292-L loudspeaker 20 Hz-20 kHz 94 dBSPL. Audio Precision APx555B.

standard TOSLINK: Faraday 0.28 mrad/m, wab -82 dBV/Pa.
Equatorial shielded: Faraday < 0.002 mrad/m, wab -114 dBV/Pa.

3. LUT

Faraday rotation 0.28 mrad/m standard TOSLINK -- mach. 'ach TOSLINK receiver threshold detection lo' -- Faraday rotation directly affect Qo'. birefringence -- PMMA fiber Hoch -- polarization rotation intensity modulation choH.

wab sensitivity -82 dBV/Pa -- 80 dBSPL pa' chuS qaStaHvIS -- -96 dBFS chuS rav optical modulation. 16-bit CD -96.3 dBFS bIngDaq -- 'ach 24-bit -144 dBFS law'. 24-bit unshielded TOSLINK -- tlhegh 'oH chuS rav.

Equatorial Audio quad-layer yoD -- SIlver braid, cryo mu-metal, aluminum-mylar, OFC drain -- 42 dB pe'meH nup, 32 dB wab nup.

4. BERTLHAM

leS QoQ TOSLINK -- pe'meH 'ej wab immune Qo'. standard PMMA fiber -- Faraday rotation, pe'meH sensitivity, wab microphone -- 24-bit QoQ affect laH. multi-layer yoD -- pe'meH 'ej wab mIgh nup. chenmoHwl' -- shielded fiber premium leS QoQ standard practice.

DE'MEY

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