

Coaxial to Fiber Optic Audio Adapter



Summary of Content

A coaxial to fiber optic audio adapter converts digital audio signals between coaxial (RCA) and optical (Toslink/SPDIF) formats, often supporting bidirectional operation and high-quality audio up to 192 kHz.

Overview

Coaxial to fiber optic audio adapters are designed to connect devices with different digital audio outputs, such as connecting a DVD player, Blu-ray player, or TV with a coaxial output to an amplifier or soundbar with an optical input, and vice versa . Many adapters are bidirectional, allowing the same device to convert signals from coaxial to optical or optical to coaxial using a simple switch .

Key Features

- **Audio Formats Supported:** Most adapters support LPCM 2.0, DTS, and Dolby AC3, ensuring compatibility with standard digital audio signals .
- **Sampling Rate:** High-quality adapters can handle up to 192 kHz, providing near-lossless audio transmission .
- **Plug and Play:** No drivers or software are required; simply connect the input and output cables and select the input source using a switch .
- **Cable Length:** Optical fiber cables can transmit signals up to 30 meters (98 feet) with minimal loss, while coaxial cables typically support up to 10 meters (32 feet) without signal degradation .
- **Power Supply:** Many adapters are powered via USB, either from a nearby port on the TV or an external USB adapter .

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For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: sales@benniedesignstudio.co.za

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

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