

Klotz HD01PC25 Compact Hybrid Cable: Digital + Power

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Hybrid cables that combine both digital audio/DMX and power lines in a single cable are widely used in many modern applications. The new KLOTZ HD01PC25 hybrid cable has been specially developed for mobile use. It features a robust, highly flexible soft PVC outer jacket, making it ideal for connecting active speakers, dimmers, color changers, and scanners – both in demanding live settings and fixed installations. This hybrid cable enables the transmission of audio or lighting control signals and the required power supply through a single cable.

With an impedance of 110 ohms, the double-shielded signal line is suitable for transmitting analog audio signals as well as digital AES/EBU and DMX signals. Thanks to its effective shielding made of aluminum foil and dense copper braid, along with a conductor cross-section of $2 \times 0.22 \text{ mm}^2$, interference-free transmission over long distances is no problem – even in environments with electromagnetic interference. A drain wire for ground connection also makes it easier to assemble with XLR or TRS connectors.

The power line features three bare, fine-wire copper conductors according to IEC 60228, each with a cross-section of 2.5 mm^2 . The cores are insulated with high-quality PVC, ensuring reliable electrical performance and mechanical durability.

When assembling the HD01PC25 with a combined connector for both power and signal, a separate jacket for the three power cores is not necessary. This simplifies integration into hybrid cable reel systems, significantly reduces processing time, and lowers the cable's outer diameter, allowing for cable lengths of up to 100 meters per reel. The HD01PC25 is also suitable for use with multipin connectors.