

# UAS AES/EBU > SPDIF - TRANSFORMER CABLE



## Description

The AES/EBU (AES-3) > SPDIF transformer cable enables the electrically correct adaptation (see diagrams) of a digital AES/EBU (AES-3) output signal from an XLR male connector to an SPDIF input with a coaxial socket, i.e. adaptation of a professional signal to the consumer format. The cable is transparent for biphase-encoded common digital audio formats.

The occurrence of "hum loops" is avoided with certainty by using this transformer cable. The otherwise problematic connection of AES-EBU or AES-3 outputs to unbalanced RCA or BNC inputs can be carried out correctly and with optimum impedances and signal levels.

The integrated transformers and resistors enable the following functions with this adapter cable:

1. Adaptation of the balanced signal to the unbalanced input
2. galvanic isolation of input and output (elimination of earth loops)
3. the operating level is transformed down to 0.5 V
4. the impedance is converted from 110 Ω to 75 Ω

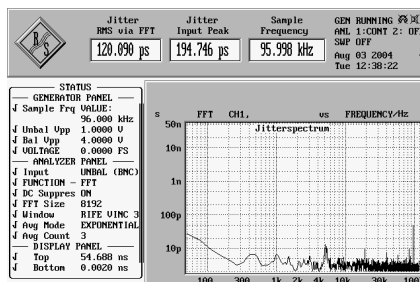
The shield is connected to the RCA plug housing and, like the audio signal, is galvanically isolated from the XLR coupling housing. Pin 1 of the XLR coupling is not connected. Thanks to the particularly low-loss design of the transformer cable, it is also suitable for adapting high-clocked digital audio signals with sampling frequencies of 24 kHz to 192 kHz ! at 24-bit resolution. No changes are made to the audio or control data in the signal. Therefore, the receiving SPDIF input must also be able to process the AES/EBU format.

With these adapter cables, for example, up to 6 AES/EBU signals can be processed at the inputs of the CAS-2.V4 digital signal source switcher. The balanced outputs of the AMS-2 DAR and PAS-8 digital routers and the outputs of the DDA-12 distribution amplifier can thus be adapted to coaxial RCA inputs. However, the adapter cable is also suitable for all other standardized devices.

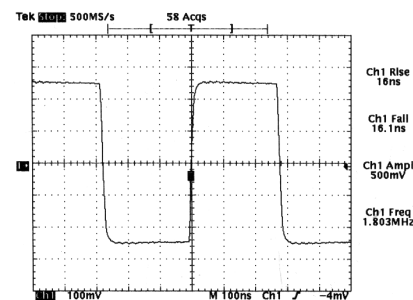
The cable has a female XLR socket and a male RCA plug with gold-plated contacts and is available in lengths of 0.5 m, 1.0 m, 1.5 m, 2.0 m, 3.5 m and 5.0 m (special lengths on request).

## Technical data :

Transmission ratio :	6:1
Max. input level :	10V <sub>pp</sub>
Permissible common-mode voltage :	+/- 60V
Input impedance :	110 Ω
Output impedance :	75 Ω
Sampling frequency :	24..192 kHz
Rise time :	typ. 16 ns



Jitter spectrum Transformer cable 1.0 m, 96 kHz



AES/EBU-Transformer cable 1,0m