

AUDIO TRANSFORMER TR-4AU

The TR-4AU transformer is designed for four audio signals transmission via twisted-pair cable. The device adapts 600 ohms microphone impedance to twisted pair impedance. It guarantees audio signal transmission up to 1200 meters.

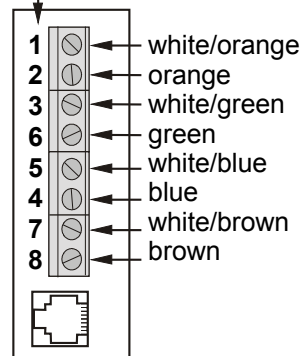
TR-4AU is a passive device (doesn't require any power supply). Two devices are needed for building the complete audio-transmission system. Audio signal transmission via twisted-pair cable is cheaper than transmission by coaxial cable, and assuring good quality because the signal is transmitted differentially. It means satisfactory reduction or even elimination of interferences. The TR-4AU enables galvanic separation. A twisted-pair cable can be connected to the RJ-45 socket or terminals. The pictures below show the wires sequence and the connections.

SPECIFICATIONS:

Number of audio channels	4
Maximum distance of audio signal	1200m
Inputs/outputs separation	> -50dB
Audio nominal input level / RWE	1000mV / 600Ω
Audio nominal output level	1000mV
Audio insertion loss	-1,75dB (@ f=1kHz)
Audio bandwidth	20Hz – 20kHz
Audio in/out minimum impedance	600Ω
Twisted-pair cable in/out minimum impedance	100Ω
Audio in/out socket type	4 x CHINCH
Twisted-pair cable in/out socket type	RJ-45 (8-pins, 4 pairs), terminals
Working temperature / relative humidity	-50...+55°C / <95%
Dimensions / weight	120x30x60mm / 133g

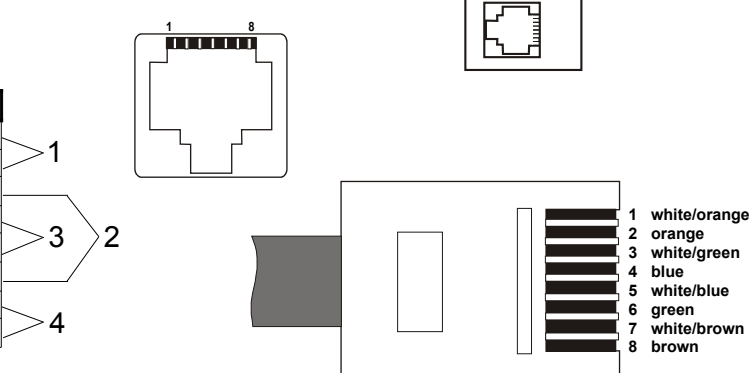
Wiring sequence:

RJ-45 connector
pins No.:



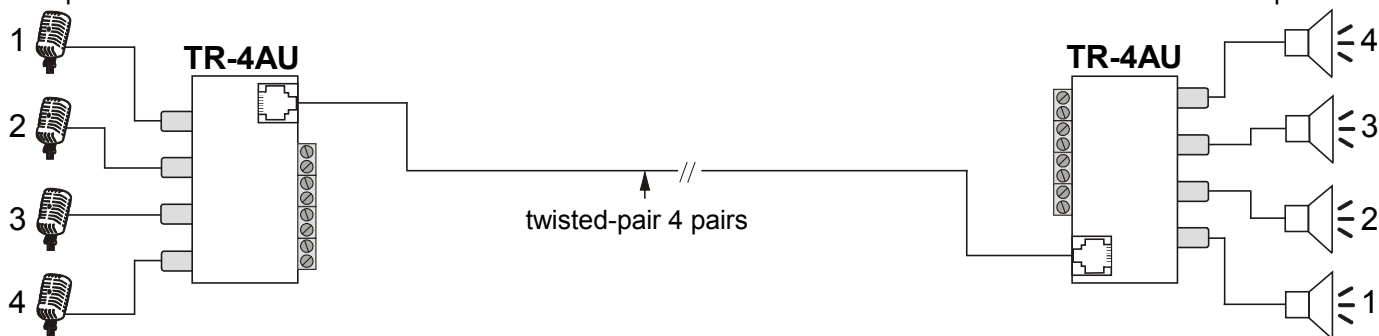
Wiring sequence inside the RJ-45 plug. T568B norm.

Pin No.	Colour	Application
1	White/Orange	(+) AUDIO-1
2	Orange	(-) AUDIO-1
3	White/Green	(+) AUDIO-2
4	Blue	(-) AUDIO-3
5	White/Blue	(+) AUDIO-3
6	Green	(-) AUDIO-2
7	White/Brown	(+) AUDIO-4
8	Brown	(-) AUDIO-4



Schematic diagrams:

microphones



microphones

