

Digital signal data (AES-EBU) requires a special cable in order to make good interfaces.

The AES-EBU Digital Audio format is a square wave signal running at up to 60 MHz configured for a balanced 100 Ohm impedance line connected via 7000 Range Connectors.

The use of standard two conductor microphone cable for digital signals will result in poor data transmission, loss and corruption of data due to the impedance mismatch between the cable and transmission system and the skin effect at high frequency. These conditions are particularly acute when the cable length is greater than the signal wavelength – typically 3-5 metres.

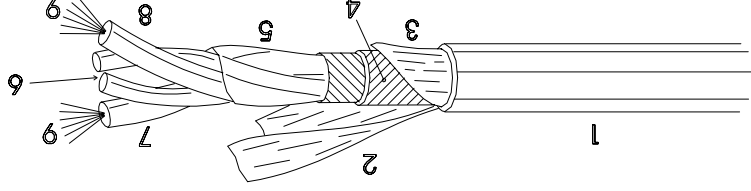
The idea transmission line would be a co-axial cable as used in video. Unfortunately, this is not possible due to the balanced format.

Gotham Cable has specially developed a 2 x 0.34m (2x22 SWG) double shielded digital cable with a 110 ohm twin-ax design which permits AES-EBU transmission over long runs (greater than 100 meters) without problem.

N.B.

Some system are configuration for 240 ohm impedance; these should be terminated with a 203 ohm resistor to configure the system for 110 ohm use.

Dimensions



- 1 - JACKET
- 2 - FLEECE LINING
- 3 - SHIELD NO.1
- 4 - SHIELD NO.2
- 5 - PVC SEPARATION FOIL
- 6 - CORD (2) : POLYTHENE
- 7 - INSULATION
- 8 - INSULATION
- 9 - CONDUCTOR (2 off)

- Ø6mm, purple Polyester
- Bare copper wire, (0.10mm)
- Bare copper wire, (0.10mm)
- PH quad twisted with two conductors
- Scum PE, Ø2mm (white)
- Scum PE, Ø2mm (red)
- Tinned copper wires, 7x0.25mm (0.34mm)

Technical Specification

Conductor Resistance $\leq 62 \text{ Ohm/km}$

Impedance =110 Ohm (balanced)

Attenuation 1 MHz = 2dB/km

Capacitance 800 Hz = 50 nF/km

Insulation Resistance $\leq 10G \text{ Ohms/km}$

Ordering Data

Colour Purple

Reels at 200m

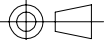
Weight/reel 10.5 kg

Weight/metre 0.053 kg

DrgNo 439-0150

TITLE AUDIO CABLE – GAC-2 AES-EBU

ALL DIMENSIONS IN MM
ANGLES IN DECIMAL DEGREES



DELTRON Components

ISSUE

5

GENERAL SPECIFICATION

FOR 439-0150

CUSTOMER

FILTER REF

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