

Product: [BE46938](#) 



16 PAIR AES/EBU, 26AWG, ISTP, LSZH, STAGE

Product Description

16 PAIR AES/EBU, 26AWG/0.14mm², ISTP, LSZH, STAGE

Technical Specifications

Product Overview

Suitable Applications:	Digital multi-modulation cable used in professional studiotronics; For analogue and digital transmission in instruments for frequency modulation
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Construction n x D
26	18x38	TC - Tinned Copper	18x0.10 mm

Conductor Count:	32
Total Number of Pairs:	16

Insulation

Type	Material	Nominal Diameter	Diameter +/- Tolerance
Insulation	PE - Polyethylene	1.13 mm	0.03 mm

Color Chart

Number	Color
Pair 1 t/m 16	White & Blue

Inner Shield

Type	Material	Min. Coverage [%]
Tape	Polyester	
Spiral Serve / Screen	Tinned Copper (TC)	90%

Inner Jacket

Material	Color	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Gray	2.90 mm	0.10 mm	0.20 mm

Table Notes:	Elements are numbered
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Outer Shield

Type	Material	Drainwire Material	Drainwire AWG	Drainwire Construction n x D	Drainwire Position	Min. Coverage [%]
Braid	Tinned Copper (TC)	TC - Tinned Copper	26	18x0.10 mm	Over separating foil, under braid	90%

Outer Jacket

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	16.30 mm	0.50 mm	1.10 mm

Construction and Dimensions

Cabling

Description
1 center filler + 16 pairs covered with a non-woven separating foil

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Nominal Inner Shield DCR
130 Ohm/km	40 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
56 pF/m	220 pF/m

Min Insulation Resistance: 2000 MOhm*km

Inductance

Nominal Pair Inductance
0.80 µH/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
0.1 - 6	110 Ohm	+/- 10 Ohm
6 - 24	110 Ohm	20 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
2 MHz	3.1 dB/100m
4 MHz	6.2 dB/100m
5 MHz	7.3 dB/100m
6 MHz	8.2 dB/100m
12 MHz	13.1 dB/100m
24 MHz	21.1 dB/100m

Delay

Nominal Velocity of Propagation (VP) [%]
60%

Temperature Range

Other Temp Range: -30 to +70 °C

Mechanical Characteristics

Max. Pull Tension:	800 N
Min. Bend Radius During Installation:	163 mm
Min. Bend Radius During Operation:	244.5 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space: Indoor - Euroclass Eca

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2, IEC 60332-3-24
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
BE46938.01250	Gray	Reel	250 m	8719605027849
BE46938.01500	Gray	Reel	500 m	8719605027856

History

Update and Revision:

Revision Number: 0.176 Revision Date: 02-03-2025

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