



Product: [70055CH](#)



12 PAIR AES/EBU, 26AWG, ISTP, LSZH-C

Product Description

DIGITAL AUDIO 12 PAIR AES/EBU, 26AWG/0.14mm², ISTP, LSZH-C

Technical Specifications

Product Overview

|                        |   |
|------------------------|---|
| Suitable Applications: | Digital multi-modulation cable used in professional studios for the transmission of analogue and digital audio signals; Designed to meet the requirements of the AES/EBU specification; Resistance to flame propagation according to IEC 60332-3-24 |
|------------------------|---|

Physical Characteristics (Overall)

| Conductor              |           |   |               |                    |
|------------------------|-----------|---|---------------|--------------------|
| AWG                    | Stranding | Material  | Cross Section | Construction n x D |
| 26                     | 7x34      | BC-OFHC - Oxygen-Free Bare Copper (High Conductivity) | 0.14 mm²      | 7x0.15 mm          |
| Conductor Count:       |           | 24  |               |                    |
| Total Number of Pairs: |           | 12  |               |                    |

| Insulation |                          |                  |                        |
|------------|--------------------------|------------------|------------------------|
| Type       | Material                 | Nominal Diameter | Diameter +/- Tolerance |
| Insulation | PE - Polyethylene (Foam) | 1.10 mm          | 0.03 mm                |

| Color Chart   |              |
|---------------|--------------|
| Number        | Color        |
| Pair 1 t/m 12 | White & Blue |

| Inner Shield            |                     |                 |                        |               |                              |
|-------------------------|---------------------|-----------------|------------------------|---------------|------------------------------|
| Material                | Material Trade Name | Coverage [%]    | Drainwire Material     | Drainwire AWG | Drainwire Construction n x D |
| Bi-Laminate (Alum+Poly) | Beldfoil®           | 100%            | Stranded tinned copper | 26            | 7x0.16 mm                    |
| Table Notes:            |                     | Aluminum inside |                        |               |                              |

| Inner Jacket                                    |                  |  |
|---|------------------|--|
| Material  | Nominal Diameter | Diameter +/- Tolerance                   |
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 2.90 mm          | 0.10 mm                                  |
| Table Notes:                                    |                  | Elements are numbered for identification |

| Outer Shield |                         |              |                    |               |                              |
|--------------|-------------------------|--------------|--------------------|---------------|------------------------------|
| Type         | Material                | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
| Tape         | Bi-Laminate (Alum+Poly) | 100%         | TC - Tinned Copper | 26            | 7x0.16 mm                    |

| Outer Jacket                                    |                  |                        |
|---|------------------|------------------------|
| Material  | Nominal Diameter | Nominal Wall Thickness |
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 14.70 mm         | 1.30 mm                |

Construction and Dimensions

| Cabling     |        |
|-------------|--------|
| Description | Filler |

|                                   |             |
|-----------------------------------|-------------|
| 3 fillers + 12 pairs              | Cotton (3x) |
| Min Elongation at Breakof Jacket: | 125 %       |
| Min Tensile Strength of Jacket:   | 9 MPa       |

Electrical Characteristics

Conductor DCR

|                       |
|-----------------------|
| Nominal Conductor DCR |
| 134.0 Ohm/km          |

Capacitance

|   |
|---|
| Nom. Capacitance Conductor to Conductor |
| 40 pF/m                                 |

Impedance

|                 |                                  |                                  |
|-----------------|----------------------------------|----------------------------------|
| Frequency [MHz] | Nominal Characteristic Impedance | Nominal Characteristic Tolerance |
| 0.1 - 6         | 110 Ohm                          | +/- 15 Ohm                       |

Delay

|  |
|--|
| Nominal Velocity of Propagation (VP) [%] |
| 80%                                      |

Temperature Range

|                   |               |
|-------------------|---------------|
| Other Temp Range: | -30 to +70 °C |
|-------------------|---------------|

Mechanical Characteristics

|                                       |          |
|---------------------------------------|----------|
| Min. Bend Radius During Installation: | 147 mm   |
| Min. Bend Radius During Operation:    | 220.5 mm |

Standards

|                     |               |
|---------------------|---------------|
| CENELEC Compliance: | EN 50290-2-20 |
|---------------------|---------------|

Applicable Environmental and Other Programs

|                      |        |
|----------------------|--------|
| Environmental Space: | Indoor |
|----------------------|--------|

Flammability, LSOH, Toxicity Testing

|  |                |
|--|----------------|
| IEC Flammability:  | 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            |
| IEC 61034-2 - Smoke Density Min. Transmittance:            | 60%            |

Related Part Numbers

Variants

| Item #        | Color | Put-Up Type | Length | EAN           |
|---------------|-------|-------------|--------|---------------|
| 70055CH.00500 | Green | Reel        | 500 m  | 8719605010261 |

History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.183 Revision Date: 01-15-2024 |
|----------------------|--|

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