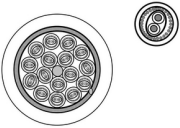


Product: [BE46938](#) 



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 |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

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 |
|--------------|-----------------------|

| 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 50290-2-27 |

Applicable Environmental and Other Programs

|                      |                        |
|----------------------|------------------------|
| Environmental Space: | Indoor - Euroclass Eca |
|----------------------|------------------------|

Flammability, LS0H, Toxicity Testing

|                                                            |                                  |
|------------------------------------------------------------|----------------------------------|
| IEC Flammability:                                          | IEC 60332-1-2 and 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 |

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.163 Revision Date: 04-08-2022 |
|----------------------|--------------------------------------------------|

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