



 **Media Technology**

# **New Generation**

**Halogen-free audio cables**



**HELULIGHT®**

**HELUSOUND®**

## Halogen-free AES / EBU multi-pair audio cables

The new halogen-free 110 ohm AES/EBU multi-pair audio cable is intended for use in public buildings and facilities such as nightclubs, cruise ships, stages and theatres.

Laying lengths over 130 m are possible with the digital multi-pair/modulation cable. Pairs are individually screened with AL/PT foil. An overall screening consists of AL/PT foil and copper braid, resulting in superb resistance to signal distortion or „cross talk.“ The following

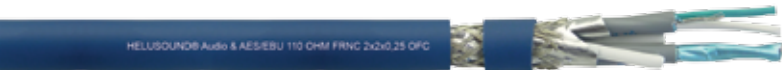
sizes are available from stock:

2x2x0,25 / 4x2x0,25 / 8x2x0,25 / 12x2x0,25

### Properties:

- halogen-free (LSZH) outer sheath
- stops propagation of flames in the event of fire
- no harmful effects caused by fumes and toxic gases

### Li02YS(St)CH 2x2x0,25 PimFH halogen-free



- Part no.: 400171
- Pairs: 2
- Copper weight: 32,0 kg/km
- Cable external Ø: 10,00 mm

### Li02YS(St)CH 4x2x0,25 PimFH halogen-free



- Part no.: 400172
- Pairs: 4
- Copper weight: 55,0 kg/km
- Cable external Ø: 11,9 mm

### Li02YS(St)CH 8x2x0,25 PimFH halogen-free



- Part no.: 400173
- Pairs: 8
- Copper weight: 93,0 kg/km
- Cable external Ø: 15,5 mm

### Li02YS(St)CH 12x2x0,25 PimFH halogen-free



- Part no.: 400174
- Pairs: 12
- Copper weight: 139,0 kg/km
- Cable external Ø: 19,9 mm

### Technical data

- **Temperature range**  
fixed: -20°C up to +80°C
- **Minimum bending radius**  
flexing: 10 x cable-Ø  
fixed: 5 x cable-Ø

### Cable structure

- Bare copper approx 32x0,10 mm/0,25 mm
- Core insulation Foam-Skin-PE, Ø 1,60 ± 0,10 mm
- Core colours white, turquoise (RAL 5018)
- 2 Cores to a pair + Drain wire 7x0,20 mm Cu tinned
- Pair shielding AL/PT-Foil
- Pair core LSZH soft, numbered, colour coding, Ø 3,80 mm, 1-8 gray, 9-16 black, 17-24 brown, 25-32 red
- n Pairs stranded, with pad if necessary
- Total shield AL/PT-Foil + Cu-Hose tinned opt. coverage 55%
- Outer sheath LSZH soft, blue like RAL 5000
- Cable external diameter look at the article

### Electrical data

- **Conductor resistance max.:**  
72 Ohm/km
- **Capacity (Core/Core):**  
46pF/m
- **Insulation resistance:**  
> 1,0 GOhm x Km
- **Characteristic impedance:**  
110 Ohm at 1 MHz
- **Nominal voltage:**  
300V
- **Test voltage A/A:**  
1500 Vac
- **Test voltage A/S:**  
700 Vac

### Fire performance

- **Self-extinguishing and flame retardant according to:**  
IEC 60332-1
- **Fire test according to test method C:**  
IEC 60332-3
- **Halogen-free according to:**  
IEC 60754-1
- **Smoke density according to:**  
IEC 61034-2





## AES/EBU digital audio cables, multi-paired, pairs with foil shielding and overall foil shielding

- Cable structure: nx2x0,22
- Cable external Ø: approx. 9,9 mm
- Min. bending radius for laying: 100 mm
- Weight: approx. 85,0 kg/km
- Conductor resistance max.: 80 Ohm/km
- Copper weight: 15,4 kg/km



## AES/EBU & DMX patch cable

- Cable structure: nx2x0,22
- Cable external Ø: approx. 5,0 mm
- Min. bending radius for laying: 50 mm
- Weight: approx. 33,0 kg/km
- Conductor resistance max.: 86 Ohm/km
- Copper weight: 13,9 kg/km



## AES/EBU & DMX cables

- Cable structure: 2x0,34
- Cable external Ø: approx. 6,4 mm
- Min. bending radius for laying: 64 mm
- Weight: approx. 50,0 kg/km
- Conductor resistance max.: 53 Ohm/km
- Copper weight: 13,8 kg/km



## AES/EBU & DMX cables

- Cable structure: 4x0,34
- Cable external Ø: approx. 7,0 mm
- Min. bending radius for laying: 70 mm
- Weight: approx. 65,0 kg/km
- Conductor resistance max.: 53 Ohm/km
- Copper weight: 28,0 kg/km



## AES/EBU TP DMX 512

- Cable structure: 2x2x0,22
- Cable external Ø: approx. 8,0 mm
- Min. bending radius for laying: 80 mm
- Weight: approx. 76,0 kg/km
- Conductor resistance max.: 85 Ohm/km
- Copper weight: 38,0 kg/km



## DMX cables

- Cable structure: (1x2x0,25) + 3G1,5
- Cable external Ø: approx. 13,2 mm
- Min. bending radius for laying: 64 mm
- Weight: approx. 50 kg/km
- Conductor resistance max.: 53 Ohm/km
- Copper weight: 60,5 kg/km



## DMX-Power

- Cable structure: (1x2x0,24)+2x1,0
- Cable external Ø: approx. 7,4 mm
- Min. bending radius for laying: 5xD mm
- Weight: approx. 74,0 kg/km
- Conductor resistance max.: 50 Ohm/km
- Copper weight: 35,0 kg/km



## HELUTOOL SZ screw pliers

Who has never experienced the problem of tight screws that cannot be loosened with normal screwdrivers? The screws are either too severely damaged, rusted, overpainted several times, or the right tool is not available. HELUTOOL SZ screw pliers loosen the "problem screw" quickly!

The pliers loosen all self-tapping or metric screws from M2 to M6 due to their horizontally as well as vertically toothed and concaved bit areas. The special head design of the pliers envelop the screw head to safely loosen the screw, which cannot be removed with conventional tools.

### Technical details

- Part No.: 906455
- Size: 160 mm
- Weight: 140 g
- Handles: 2 component handle cover
- Inductive hardened precision bit with inserted joint
- Compatible with screw sizes M2 to M6



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