



# Audio Cables

---

Description	Page
Analog Patch Cable.....	6.3
Speaker Cable.....	6.4
Highly Flex Speaker Cable.....	6.5
Multi-core Speaker Cable.....	6.6
Flat Speaker Cable.....	6.7
Microphone Cable.....	6.8
Quad Microphone Cable.....	6.9
Instrument Cable.....	6.10
Analog Audio Multi-pair Cable.....	6.11
Digital Patch Cable (Solid).....	6.12
Digital Patch Cable (Stranded).....	6.13
Digital Multi-pair Audio Cable.....	6.14
Digital Sound Cable.....	6.15
Audio LAN Cable.....	6.16

## Analog Patch Cable



### Technical data

- **Operating temperature:** -20 °C to +85 °C
- **Minimum bending radius:**  
Fixed station: 22 mm  
Mobile station: 45 mm

### Cable structure

- Conductors: tin plated copper
- Insulation: PE
- Drain wire: tin plated copper
- Shield: Al-PET or copper spiral
- Sheath: PVC

### Product advantages

- High flexibility
- Compactness
- Excellent ease of use
- 100% shielding
- Allows for easy connection
- Audio transmissions over long distances

### Application

The cable is mainly used as the balanced analog audio link for the internal wiring for the audio equipments.

No. of Pairs	Section mm <sup>2</sup>	Screen	Outer Diameter mm	Cable Weight kg/km
1	0.14	Bare copper braiding	2.65	13
1	0.22	Al-PET	2.90	15
1	0.22	Al-PET	4.00	22
1	0.34	Tinned copper braiding	4.45	25

## Speaker Cable



### Technical data

- **Operating voltage:** 300 V
- **Operating temperature:** -20 °C to +70 °C
- **Minimum bending radius:**  
Fixed station: 5 x outer diameter  
Mobile station: 10 x outer diameter

### Cable structure

- **Conductors:** multi-strand bare copper
- **Insulation:** PVC
- **Sheath:** PVC

### Product advantages

- Robustness
- Flexibility

### Application

The cable is mainly used as the connecting cable for the amplifiers and the speakers and suitable for the wiring of the sound systems.

No. of Pairs	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
1	1.5	6.2	60
1	2.5	7.4	87
1	4.0	10.2	130

## Highly Flex Speaker Cable



### Technical data

- **Operating voltage:** 300 V
- **Operating temperature:** -20 °C to + 70 °C
- **Minimum bending radius:**  
Fixed station: 5 x outer diameter  
Mobile station: 10 x outer diameter

### Cable structure

- **Conductors:** multi-strand bare copper
- **Insulation:** PVC
- **Sheath:** PVC

### Product advantages

- Oxygen-free copper for better sound quality and longer life span
- High flexibility thanks to 0.10 mm core conductors and ultra flexible PVC jacket
- Easy to wind

### Application

The cable is mainly used as the connecting cable for the amplifiers and the speakers and suitable for the wiring of the sound systems. The flexible feature makes it good for the mobile application.

No. of Pairs	Construction No. x mm	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
1	182 x 0.1	1.5	6.2	60
1	310 x 0.1	2.5	7.4	87

## Multi-core Speaker Cable



### Technical data

- **Operating voltage:** 300 V
- **Operating temperature:** -20 °C to +70 °C
- **Minimum bending radius:**  
Fixed station: 5 x outer diameter  
Mobile station: 10 x outer diameter

### Cable structure

- **Conductors:** multi-strand bare copper
- **Insulation:** PVC
- **Sheath:** PVC

### Product advantages

- Robustness
- Available in versions with 4, 5, 6 and 8 conductors for multi-channel sound systems

### Application

The cable is mainly used as the connecting cable for the amplifiers and the speakers and suitable for the wiring of the sound systems.

No. of Cores	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
4	2.5	10.25	160
4	4.0	12.20	260
6	2.5	13.00	260
8	2.5	15.80	350
8	4.0	17.00	450

## Flat Speaker Cable



### Technical data

- **Operating voltage:** 100 V
- **Operating temperature:**  
Fixed station: -30 °C to +70 °C  
Mobile station: -10 °C to +70 °C
- **Minimum bending radius:**  
8 x outer diameter

### Cable structure

- **Conductors:** multi-strand bare copper
- **Sheath:** Transparent PVC

### Product advantages

- Oxygen-free copper
- Double identification of conductors
- High flexibility

## Application

The cable is mainly used as the connecting cable for the speakers and suitable for the wiring of the sound systems.

No. of Cores	Section mm <sup>2</sup>	Outer Diameter mm
2	1.5	3.40 x 7.80
2	2.0	3.50 x 8.00
2	2.5	3.80 x 8.60
2	4.0	4.60 x 9.60

## Microphone Cable



### Technical data

- **Operating temperature:** -10 °C to +70 °C
- **Minimum bending radius:**  
Fixed station: 35 mm  
Mobile station: 50 mm

### Cable structure

- Conductors: bare copper
- Insulation: PVC
- Shielding: bare copper braiding  
Sheath: PVC

### Product advantages

- Excellent price/quality ratio
- Great performance

### Application

The cable is mainly used as the connecting cable for the microphones and audio equipments.

No. of Pairs	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
1	0.22	5.00	35
1	0.40	6.30	55



## Quad Microphone Cable



### Technical data

- **Operating temperature:** -5 °C to +70 °C
- **Minimum bending radius:**
  - Fixed station: 35 mm
  - Mobile station: 50 mm

### Cable structure

- Conductors: tin plated copper
- Insulation: PE
- Shielding: double tin plated copper spiral
- Sheath: PVC

### Product advantages

- 100% shielding thanks to double copper spiral shielding
- Low microphone noise
- High resistance to background noise
- Immune to electromagnetic interference thanks to a double shielding and star-quad assembly

### Application

The cable is mainly used as the balanced analog audio link for the wiring of the microphones and audio equipments.

No. of cores	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
4	0.22	6.80	82

## Instrument Cable



### Technical data

- **Operating temperature:**  
-5 °C to +70 °C
- **Minimum bending radius:**  
Fixed station: 30 mm  
Mobile station: 55 mm

### Cable structure

- Conductors: bare copper
- Insulation: foam PE
- Shielding: conductive carbon layer + bare copper spiral
- Sheath: PVC

### Product advantages

- High flexibility
- Very robust
- Easy to wind
- 100% shielding thanks to the combination of a copper spiral shielding and a conductive carbon layer
- Good resistance to tensile strength
- Designed to be coiled, uncoiled, bend and crushed

### Application

The cable is mainly used as the unbalanced analog audio link for the wiring of the guitar and other instrument.

No. of Cores	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
1	0.22	6.00	40

## Analog Audio Multi-pair Cable



### Technical data

- **Operating temperature:** -30 °C to +80 °C
- **Minimum bending radius:**  
5 x outer diameter

### Cable structure

- Conductors: tin plated copper
- Insulation: PE
- Drain wire pair: tin plated copper
- Pair shielding: Al-PET
- Pair sheath: PVC
- Overall shielding: Al-PET
- Overall drain wire: tin plated copper
- Sheath: PVC

### Product advantages

- Individually shielded and sheathed pairs
- Overall shielding
- Excellent protection against static and electromagnetic interference

### Application

The cable is mainly used as the analog audio link for the wiring of professional sound studios.

No. of Pairs	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
2	0.22	7.90	92
4	0.22	9.10	145
8	0.22	12.20	207
12	0.22	15.20	308
16	0.22	17.00	388
20	0.22	20.00	505
24	0.22	22.00	577
32	0.22	24.60	732

## Digital Patch Cable (Solid)



### Technical data

- **Operating temperature:** -20 °C to +70 °C
- **Minimum bending radius:**  
Fixed station: 5 x outer diameter  
Mobile station: 10 x outer diameter
- **Impedance:** 110 Ohm  $\pm$  10
- **Attenuation(dB/100m) :**  
1 MHz : 3.60  
10 MHz : 9.40  
20 MHz : 13.00

### Cable structure

- Conductors: 1 x 0.40 mm tin plated copper
- Insulation: PE
- Drain wire pair: 1 x 0.40 mm tin plated copper
- Shielding: Al-PET
- Sheath: PVC

### Product advantages

- 100% shielding
- Digital link over long distances

### Application

The cable is mainly used as the balanced digital audio link for the wiring of audio equipments.

No. of Pairs	AWG-no.	Outer Diameter mm	Cable Weight kg/km
1	26	3.00	12.50

## Digital Patch Cable (Stranded)



### Technical data

- **Operating temperature:** -20°C to +70°C
- **Minimum bending radius:**  
Fixed station: 5 x outer diameter  
Mobile station: 10 x outer diameter
- **Impedance:** 110 Ohm  $\pm$  10
- **Nominal capacitance 800 / 1000 Hz:** 46 pF / m
- **Attenuation(dB/100 m) :**  
1 MHz : 2.10  
10 MHz : 10.50  
20 MHz : 16.00

### Product advantages

- High flexibility
- Compactness
- Excellent ease of use
- Available with LSZH jacket

### Cable structure

- Conductors: 7 x 0.20 mm tin plated copper
- Insulation: PE
- Drain wire pair: 7 x 0.20 mm tin plated copper
- Shielding: Al-PET
- Sheath: PVC/LSZH

### Standards for LSZH version

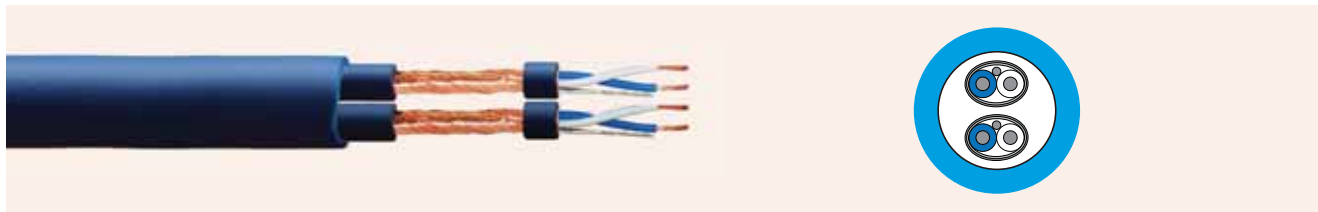
- Flame retardant: IEC 60332-1
- Determination of acidity level of gasses: IEC 60754-2
- Smoke density: IEC 61034-1 and -2

### Application

The cable is mainly used as the balanced digital audio link for the wiring of audio equipments. The flexible feature makes it suitable for both fixed and mobile application.

No. of Pairs	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
1	0.22	4.60	27
1	0.22	4.20	29

## Digital Multi-pair Audio Cable



### Technical data

- **Operating temperature:** -30 °C to +70 °C
- **Minimum bending radius:**  
Fixed station: 5 x outer diameter  
Mobile station: 10 x outer diameter
- **Impedance:** 110 Ohm ± 10
- **Nominal capacitance 800 / 1000 Hz:** 46 pF / m
- **Attenuation(dB/100 m) :**  
0.1 MHz : 0.55  
1 MHz : 2.10  
4 MHz : 5.80  
10 MHz : 10.50  
20 MHz : 16.00
- **Next (dB) :**  
0.1 MHz : 70 - 80  
1 MHz : 60 - 65  
4 MHz : 53 - 55  
10 MHz : 48 - 48  
20 MHz : 45 - 45

### Cable structure

- **Conductors:** 7 x 0.20 mm bare copper
- **Insulation:** foam PE
- **Drain wire pair:** 7 x 0.20 mm tin plated copper
- **Shielding of pairs:** bare copper spiral shielding  
Identification of pairs : by number
- **Pair sheath:** PVC  
Sheath: PVC

### Product advantages

- Highly effective shielding against electrical interferences.
- Highly flexible and easy to coil/uncoil thanks to ultra supply PVC jacket

### Application

The cable is mainly used as the digital audio link for the wiring of audio equipments. The flexible feature makes it suitable for both fixed and mobile application.

No. of Pairs	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
2	0.22	10.20	95
4	0.22	11.50	159
8	0.22	14.90	265
10	0.22	17.30	324
12	0.22	18.40	371
16	0.22	21.00	477
20	0.22	23.60	585
24	0.22	26.80	702
32	0.22	29.30	889

## Digital Sound Cable



### Technical data

- **Max. voltage :** 300 V
- **Impedance:** 110 Ohm  $\pm$  10
- **Conductor resistance:** 60.60 Ohm/km

### Cable structure

- **Conductors:** 7 x 0.25 mm tin plated copper
- **Insulation:** PE
- **Drain wire pair:** 7 x 0.25 mm tin plated copper
- **1st shielding:** Al-PET
- **2nd shielding:** tin plated copper braid
- **Sheath:** PVC

### Product advantages

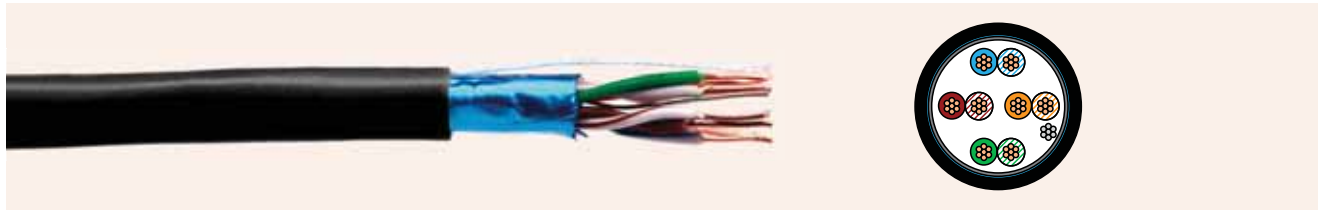
- Transmission over long distances
- High flexibility
- Very good resistance to interferences thanks to double shielding.

### Application

The cable is mainly used as the digital audio link for the wiring of audio equipments. The flexible feature makes it suitable for both fixed and mobile application.

No. of Pairs	Section mm <sup>2</sup>	Outer Diameter mm	Cable Weight kg/km
1	0.22	5.00	42
1	0.34	7.00	110

## Audio LAN Cable



### Technical data

- **Operating temperature:** - 30 °C +70 °C
- **Bend radius:**  
Fixed station: 35 mm  
Mobile station: 70 mm
- **Resistance of conductors:** 132 Ohm / km
- **Impedance (1 to 100 MHz):** 100 Ohm ± 15
- **Attenuation(dB/100 m) :**  
1 MHz : 3.00  
10 MHz : 9.80  
100 MHz : 33.00

### Cable structure

- **Conductors:** flexible bare copper – AWG 26
- **Insulation:** PE
- **Drain wire pair:** Multi-strand tin plated copper
- **Shielding:** Al-PET
- **Sheath:** PVC

### Product advantages

- High flexibility
- Black jacket
- Easy to wind

### Application

The cable is mainly used as the digital audio and video link for the wiring of audio and video equipments. The flexible feature makes it suitable for both fixed and mobile application.

### Tests results

Type	Error-free tested length	Practical length
F/UTP	85 m	75 m

No. of Pairs	AWG-no.	Outer Diameter mm	Cable Weight kg/km
4	26	5.90	40