

Audio Cables



Caleb Cable's audio range is covering the needs of high-demanding analog and digital signals: for indoor and outdoor applications, for fixed and mobile applications and for balanced signals or sound system wiring;

Audio cables are highly-flexible and resistant to mechanical stress. Shielded version is ensuring protection against environment's electro-magnetic noise; Audio cables are designed to be plugged to various connectors like XLR, RCA, Jacks and RJ45.

Audio Cables

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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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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 ²	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

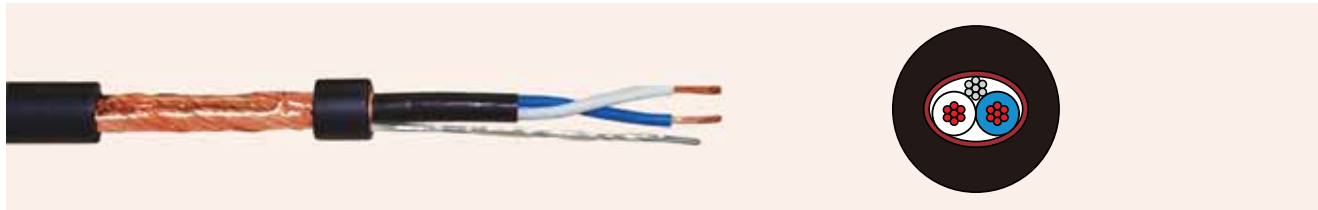
- 100% shielding
- Digital link over long distances

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 ± 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

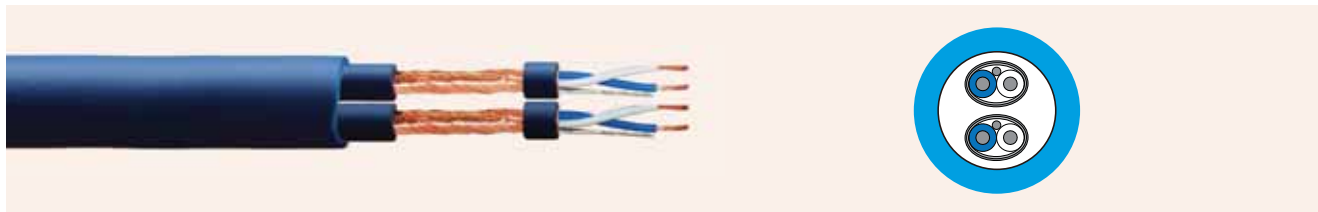
- Flame retardant: IEC 60332-1
- Determination of acidity level of gasses: IEC 60754-2
- Smoke density: IEC 61034-1 and -2

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 ²	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 ²	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

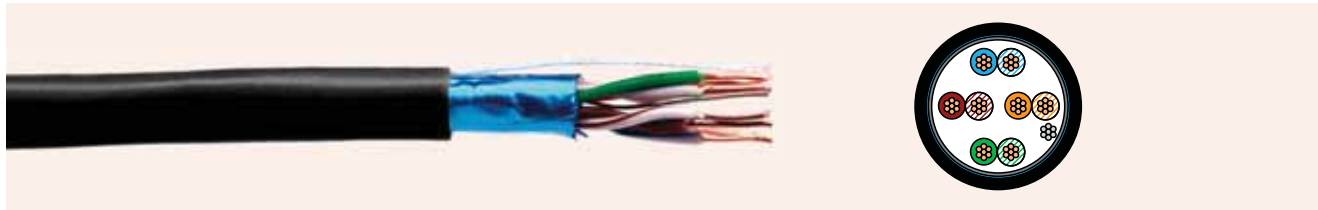
- Transmission over long distances
- High flexibility
- Very good resistance to interferences thanks to double shielding.

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 ²	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