HELUKABEL®

Solutions for Event and Media Technology

HELUEVENT®

Ed. 1.0 // EN

Channeling POWER

Content

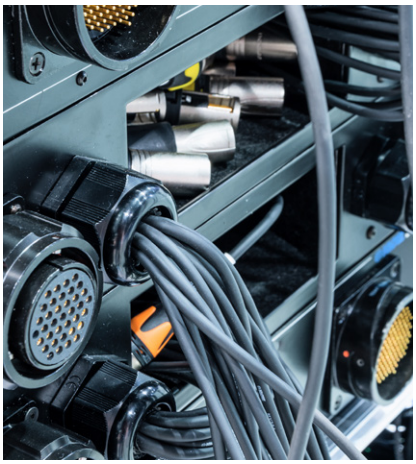
Reliable Connections for Event & Media Technology

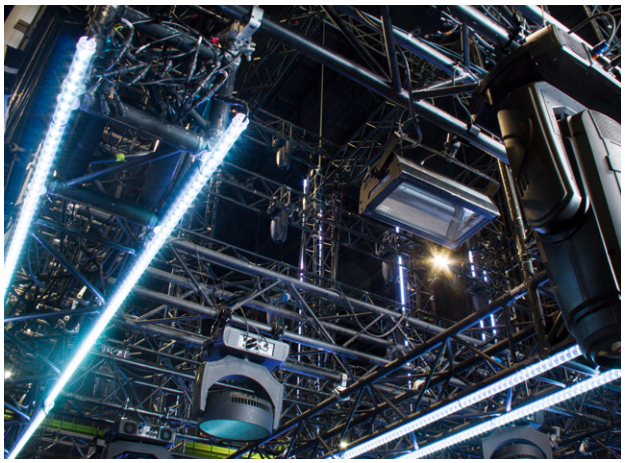
Stable and safe electrical connections are essential in event and media technology. Whether on concert stages, in TV studios, at trade shows, or in theatres, cables and wires ensure the smooth transmission of power, data, and signals. To achieve this, the highest requirements must be met. This entails flexibility for moving applications, resilience to mechanical loads, resistance to weathering effects, and reliable screening to protect against disruptions.

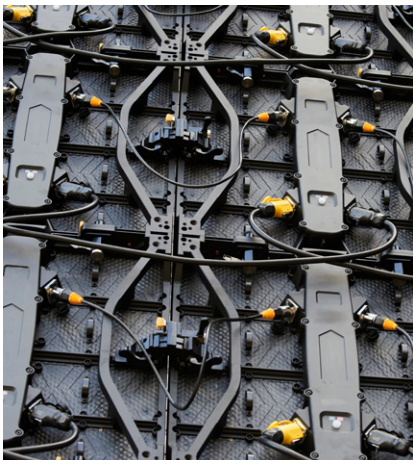
HELUKABEL is a globally leading supplier of electrical connection technology and has been an experienced and competent partner to the event and media industry for many years. Our portfolio contains solutions for every application.

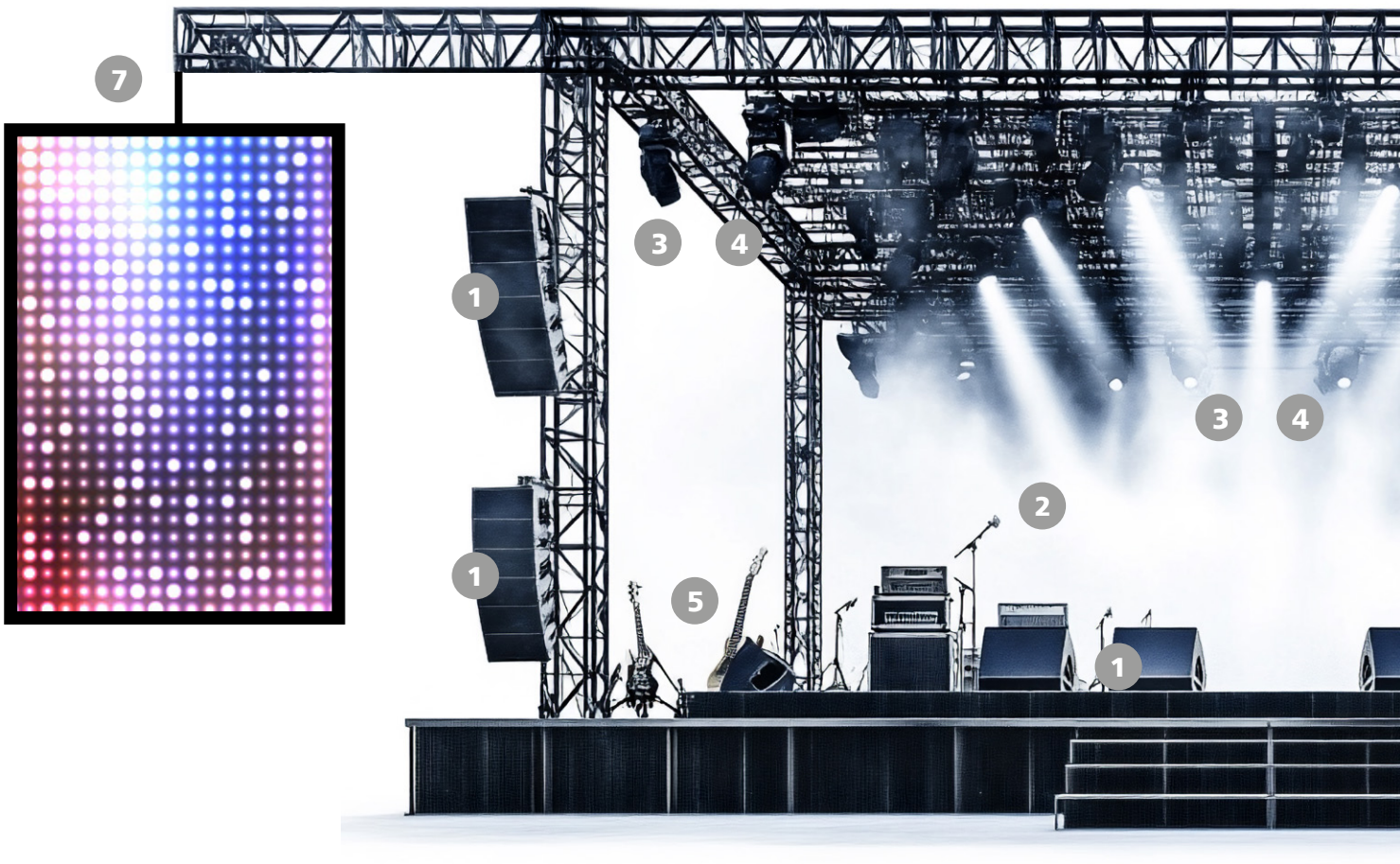
Speaker cables guarantee the lossless transmission of signals for powerful sounds while optimally screened microphone cables ensure interference-free tones. Audio and video cables allow for the high-integrity transmission of signals for professional sound and image systems, while load and connection cables ensure the reliable supply of energy for stage and studio technology.

This brochure features a clear overview of our wide-ranging portfolio of solutions for event and media technology, including our cables, wires, plugs, assemblies, tools, and accessories. Together, we can find the ideal solution for your needs!





The right solution for every application

These are some of the areas of stage technology where our electrical connectivity solutions are used.

1 Speaker cables

Cables for professional sound systems

2 Microphone cables

Cables for microphones

3 DMX cables

Cables for lighting systems

4 DMX+POWER cables

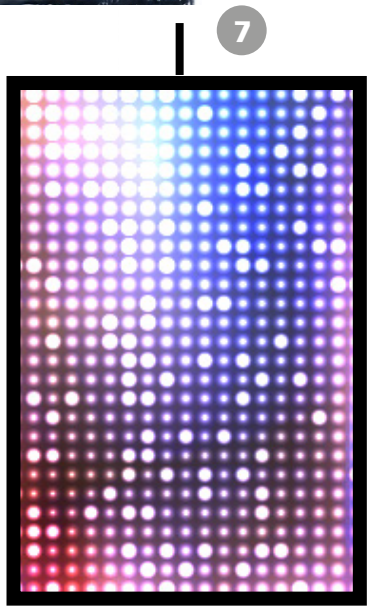
Cables for lighting systems with additional power supply

5 Instrument cables

Cables for musical instruments

6 Audio cables AES/EBU

Cables for mixers/sound engineers



7 Load cables / Titanex

Cables for power supply and lighting technology

8 Video cables

Cables for image transmission, video surveillance

Our Solutions for Event and Media Technology

For further information, variations, and dimensions, see our data sheets at: **www.helukabel.com/999999**en (replace the **red numbers** with the part no. you're looking for)

1 SPEAKER CABLES

Speaker cables ROUND

(Standard dimensions 2x1.5 / 2x2.5 / 2x4 / 4x2.5 / 4x4 / 8x2.5 / 8x4 mm²)

HELUSOUND 450 EXTREME FLEX-PVC, 2 x 1.5 mm² - extremely flexible
Bare Cu wire 84 x 0.15 mm, extra-finely stranded cl. 6
Core insulation: PVC
Outer sheath: PVC, sheath colour: black, OD: approx. 6.6 mm
Part no. 11017574

Applications:
- For cabling sound systems, professional PA systems, and HiFi systems
- Indoor, stage, mobile, studio, HiFi

HELUSOUND 400-PVC, 2 x 1.5 mm² - highly flexible
Bare Cu wire 84 x 0.15 mm, extra-finely stranded cl. 6
Core insulation: PVC
Outer sheath: PVC, sheath colour: black, OD: approx. 6.6 mm
Part no. 400089

Applications:
- See part no. 11017574

HELUSOUND 500-PUR, 2 x 1.5 mm² - extremely robust
Bare Cu wire 84 x 0.15 mm, extra-finely stranded cl. 6
Core insulation: PVC
Outer sheath: PUR, sheath colour: black, OD: approx. 6.6 mm
Abrasion and cut resistant
Part no. 400109

Applications:
- For cabling sound systems, professional PA systems, and HiFi systems
- Outdoors, indoors, stages, mobile, studio

HELUSOUND 600 Halogen free-FRNC, 2 x 1.5 mm²
Bare Cu wire 28 x 0.25 mm, finely stranded cl. 5
Core insulation: FRNC
Outer sheath: FRNC, sheath colour: black, OD: approx. 6.6 mm
Part no. 400116

Applications:
- For cabling sound systems, professional PA systems, and HiFi systems
- Permanent installations, public facilities
- For increased safety requirements in the event of fire

Speaker cables TWIN

(Standard dimensions 2x0.5 / 2x0.75 / 2x1.5 / 2x2.5 / 2x4 / 2x6 / 2x10 mm²)

TWIN PVC 2 x 0.5 mm² – easily separable
Bare Cu wire 16 x 0.20 mm
Core insulation: PVC, sheath colour: transparent/red
Dimensions: approx. 2.1 x 4.7 mm
Also avail. in black/red
Part no. 40180

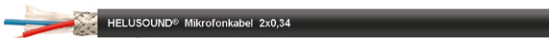
Applications:
- Wiring electrical devices, constructing prototypes, permanent installation

2 MICROPHONE CABLES

2 x 0.22 mm² PVC
Bare Cu wire 28 x 0.10 mm
Core insulation: PE
Bare, spiral Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 6.0 mm
Part no. 400038

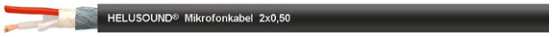
Application:
- Professional studio and stage operation short distances

2 x 0.34 mm² PVC
Bare Cu wire 19 x 0.15 mm
Core insulation: PE
Bare, braided Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 6.5 mm
Part no. 400040



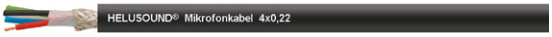
Application:
- Professional studio and stage operation as well as medium-distance, permanent installation

2 x 0.50 mm² PVC
Bare Cu wire 28 x 0.15 mm
Core insulation: PE
Non-woven Al insulation + tinned, spiral Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 6.7 mm
Part no. 400080



Application:
- Professional studio and stage operation long distances

4 x 0.22 mm² PVC
Bare Cu wire 28 x 0.10 mm, star quad
Core insulation: PE
Tinned Cu drain wire 7 x 0.15 mm
Tinned, braided Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 6.1 mm
Part no. 400041

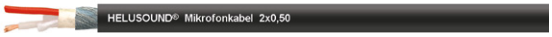


Application:
- Professional studio and microphone technology
- Stereo applications

2 x 0.22 mm² FRNC, halogen free
Bare Cu wire 28 x 0.10 mm
Core insulation: PE
Bare, spiral Cu screen
Outer sheath: FRNC, sheath colour: black, OD: approx. 6.0 mm
Part no. 400249

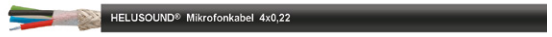
Application:
- Professional studio and stage operation short distances
- Permanent installation in public buildings

2 x 0.50 mm² FRNC, halogen free
Bare Cu wire 28 x 0.15 mm
Core insulation: PE
Non-woven Al insulation + tinned, spiral Cu screen
Outer sheath: FRNC, sheath colour: black, OD: approx. 6.7 mm
Part no. 400250



Application:
- Professional studio and stage operation long distances
- Permanent installation in public buildings

4 x 0.22 mm² FRNC, halogen free
Bare Cu wire 28 x 0.10 mm, star quad
Core insulation: PE
Tinned Cu drain wire 7 x 0.15 mm
Tinned, braided Cu screen
Outer sheath: FRNC, sheath colour: black, OD: approx. 6.1 mm
Part no. 400248



Application:
- Professional studio and microphone technology, for stereo applications
- Permanent installation in public buildings

3 DMX CABLES AES/EBU 110 OHM

2 x 0.22 mm² PVC
Tinned Cu wire 7 x 0.20 mm
Core insulation: Foam-Skin-PE
Al/PL foil + bare, spiral Cu screen
Drain wire: 7 x 0.20 mm tinned Cu
Outer sheath: PVC, sheath colour: blue, OD: approx. 5.0 mm
Part no. 400031

Application:
- Professional lighting system control
- Patching in studio technology
- Microphone technology

2 x 0.34 mm² PVC
Bare Cu wire 19 x 0.15 mm
Core insulation: Foam-Skin-PE
Non-woven Al insulation + bare, spiral Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 6.4 mm
Part no. 400032

Application:
- Professional lighting system control
- Connecting digital audio amplifiers
- For indoor and outdoor use

4 x 0.34 mm² PVC
Bare Cu wire 7 x 0.25 mm, star quad
Core insulation: PE
Al/PL foil + tinned, braided Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 7.0 mm
Part no. 400033

Application:
- Professional lighting system control with feedback function
- For controlling all kinds of digital devices
- For indoor and outdoor use

2 x 2 x 0.22 mm² PVC
Bare Cu wire 7 x 0.20 mm
Core insulation: Foam-Skin-PE
Drain wire: 7 x 0.20 mm tinned Cu
Foil-screened pairs, tinned, braided Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 8.0 mm
Part no. 400034

Application:
- For controlling all kinds of digital devices with feedback function
- For indoor and outdoor use

2 x 0.34 mm² FRNC, halogen free
Bare Cu wire 19 x 0.15 mm
Core insulation: Foam-Skin-PE
Non-woven Al insulation + bare, spiral Cu screen
Outer sheath: FRNC, sheath colour: black, OD: approx. 5.6 mm
Part no. 400278

Application:
- Professional lighting system control
- Connecting digital audio amplifiers
- Permanent installation in public buildings

4 x 0.34 mm² FRNC, halogen free
Bare Cu wire 7 x 0.25 mm
Core insulation: PE
Al/PL foil + tinned, braided Cu screen
Outer sheath: FRNC, sheath colour: black, OD: approx. 7.0 mm
Part no. 400279

Application:
- See part no. 400278

2 x 2 x 0.22 mm² FRNC, halogen free
Bare Cu wire 7 x 0.20 mm
Core insulation: Foam-Skin-PE
Drain wire: 7 x 0.20 mm tinned Cu
Foil-screened pairs, tinned, braided Cu screen
Outer sheath: FRNC, sheath colour: black, OD: approx. 8.0 mm
Part no. 400280

Application:
- For controlling all kinds of digital devices with feedback function
- Permanent installation in public buildings

4 HYBRID DMX + POWER CABLES

1 x 2 x 0.24 + 2 x 1.0 mm² PVC (1x DMX)
Power cores: Bare Cu wire approx. 32 x 0.20 mm
Core insulation: PVC
DMX element: 7 x 0.20 mm bare Cu
Core insulation: Foamed polyolefin
Al/PL foil screen + tinned, braided Cu screen, without sheath
Outer sheath: PVC, sheath colour: black, OD: approx. 7.4 mm
Part no. 400081

Application:
- Professional DMX lighting control of 110 Ohm format digital signals, as well as power supply in one cable
- Compact, flexible, easy to handle
- For indoor and outdoor use

1 x 2 x 0.25 + 3G1.5 mm² PVC (1x DMX)
Power element: Bare Cu wire approx. 48 x 0.20 mm
Core insulation: PVC
Core colours: blue, brown, green/yellow
Element sheath: PVC, sheath colour: black
Element diameter: approx. 6.7 mm
DMX element: 14 x 0.15 mm bare Cu
Core insulation: Foam-Skin-PE, core colours: red, white
Non-woven foil + tinned, braided Cu screen
Drain wire: 7 x 0.20 mm tinned Cu
Element sheath: PVC, sheath colour: black
Element diameter: approx. 4.3 mm
Outer sheath: PVC, sheath colour: black, OD: approx. 13.2 mm
Part no. 400151

Application:
- Lighting control and power supply (3G1.5 mm²) combined in one cable
- Lighting system control and mixers (110 Ohm characteristic impedance)
- DMX cable also fur use in transmitting audio signals and as microphone cables or as supply cables for active speaker systems
- For indoor and outdoor use

1 x 2 x 0.25 + 3G2.5 mm² PVC (1x DMX)
Power element: Bare Cu wire approx. 50 x 0.25 mm
Core insulation: PVC
Core colours: blue, brown, green/yellow
Element sheath: PVC, sheath colour: black
Element diameter: Approx. 7.7 mm
DMX element: 14 x 0.15 mm bare CU
Core insulation: Foam-Skin-PE, core colours: red, white
Non-woven foil + tinned, braided Cu screen
Drain wire: 7 x 0.20 mm tinned Cu
Element sheath: PVC, sheath colour: black
Element diameter: Approx. 4.3 mm
Outer sheath: PVC, sheath colour: black, OD: approx. 14.5 mm
Part no. 11025369

Application:
- See part no. 400151

2 x 2 x 0.22 + 3G2.5 mm² PVC (2x DMX)
Power element: Bare Cu wire approx. 50 x 0.25 mm
Core insulation: PVC
Core colours: blue, brown, green/yellow
Element sheath: PVC, sheath colour: black
Element diameter: Approx. 8.3 mm
DMX element: 14 x 0.15 mm bare Cu
Core insulation: Foam-Skin-PE, core colours: red, white
Non-woven foil + tinned, braided Cu screen
Drain wire: 7 x 0.20 mm tinned Cu
Element sheath: PVC, sheath colour: black
Element diameter: Approx. 4.3 mm
Outer sheath: PVC, sheath colour: black, OD: approx. 17.8 mm
Part no. 400217

Application:
- See part no. 400151

5 INSTRUMENT CABLES

1 x 0.22 mm² PVC
Bare Cu wire 28 x 0.10 mm, Core insulation: Foam-Skin-PE,
semiconducting PVC layer above, Bare, spiral Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 5.9 mm
Part no. 400036

Application:
- Synthesiser, keyboards, guitars in professional stage and studio operation

1 x 0.38 mm² PVC
Bare Cu wire 48 x 0.10 mm, Core insulation: Foam-Skin-PE,
semiconducting PVC layer above, Bare, spiral Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 7.0 mm
Part no. 400037

Application:
- See part no. 400036

6 DIGITAL AES/EBU AUDIO CABLES 110 OHM

2 x 0.22 mm² PVC (single pair)
Bare Cu wire 7 x 0.20 mm, Core insulation: PE,
2 Cores to pair + drain wire 7 x 0.20 mm bare Cu
Bare, spiral Cu screen
Outer sheath: PVC, sheath colour: black, OD: approx. 5.0 mm
Part no. 400021

Application:
- Transmission of large data volumes of digital and analogue audio signals
- Connecting audio amplifiers, digital mixers, DAT recorders

2 x 2 x 0.22 mm² (multi pair)
Bare Cu wire 7 x 0.20 mm, Core insulation: Foam-Skin-PE,
2 Cores to pair + drain wire 7 x 0.20 mm bare Cu
Pair screening: Al/PL foil, pair sheathing: PVC
Overall screen: Al/PL foil
Outer sheath: PVC, sheath colour: black, OD: approx. 9.9 mm
Part no. 400025
(also available with 4/6/8/12 pairs)

Application:
- Transmission of digital audio signals
- Permanent and studio installations

2x2x0,25 mm² FRNC, halogen free (multi pair)
Bare Cu wire 32 x 0.10 mm, Core insulation: Foam-Skin-PE,
2 Cores to pair + drain wire 7 x 0.20 mm bare Cu
Pair screening: Al/PL foil, pair sheathing: LSZH, Ø: approx. 3.8 mm
Overall screen: Al/PL foil + tinned, braided Cu screen
Outer sheath: FRNC, sheath colour: blue, OD: approx. 10.0 mm
Part no. 400171
(also available with 4/8/12 pairs)

Application:
- Transmission of digital audio signals
- Permanent installation in public buildings, theatres, museums, stadiums, cruise ships

7 LOAD CABLES 300/500 V

14G1.5 mm² PVC
Bare Cu wire 84 x 0.15 mm extra-finely stranded, cl. 6
Core insulation: PVC, numbered in black + green/yellow
Outer sheath: PVC, sheath colour: black, OD: approx. 13.4 mm
Part no. 400143
(also available as 18G1.5, 14G2.5, 18G2.5 mm²)

Application:
- Average mechanical loads in professional stage and lighting technology and other load circuits

RUBBER TUBE CABLE H07RN-F TITANEX®

H07RN-F TITANEX® 3G1.5 mm²
Bare Cu wire approx. 30 x 0.25 mm
Core insulation: cross-linked elastomer
Outer sheath: cross-linked elastomer
Sheath colour: black, OD: approx. 9.2–11.9 mm
Part no. 705900

Application:
- Network power line for electrical devices
- Average mechanical loads
- Mechanical engineering and agricultural devices
- Public spaces and temporary events, festivals

H07RN-F TITANEX® 3G2.5 mm²
Bare Cu wire approx. 50 x 0.25 mm
Core insulation: cross-linked elastomer
Outer sheath: cross-linked elastomer
Sheath colour: black, OD: approx. 10.9–14.0 mm
Part no. 707170
(Addl. diameters available)

Application:
- See part no. 705900

8 VIDEO CABLES 75 OHM DIGITAL HD-SDI

0.6/2.8 (mini) PVC, green
Solid, bare Cu 0.6 mm, insulation: Foam-Skin-PE, Ø: 2.8 mm
Al-foil screen + tinned, braided Cu, opt. coating 90%
Outer sheath: PVC, sheath colour: green, OD: approx. 4.5 mm
Capacity: 54 pF/m, velocity factor: 0.78 (v/c)
Screening effectiveness: 90 dB
Part no. 400241
(Halogen-free versions available on request)

Application:
- Studio and broadcasting, video surveillance
- Large transmission capacities

0.8/3.7 (series RG 59) PVC, green
Solid, bare Cu 0.8 mm, insulation: Foam-Skin-PE, Ø: 3.7 mm
Al-foil screen + tinned, braided Cu, opt. coating 90%
Outer sheath: PVC, sheath colour: green, OD: approx. 5.9 mm
Capacity: 55 pF/m, velocity factor: 0.78 (v/c)
Screening effectiveness: 90 dB
Part no. 400242
(Halogen-free versions available on request)

Application:
- See part no. 400241

1.0/4.8 (series RG 6) PVC, green
Solid, bare Cu 1.0 mm, insulation: Foam-Skin-PE, Ø: 4.8 mm
Al-foil screen + tinned, braided Cu, opt. coating 90%
Outer sheath: PVC, sheath colour: green, OD: approx. 7.0 mm
Capacity: 55 pF/m, velocity factor: 0.78 (v/c)
Screening effectiveness: 90 dB
Part no. 400243
(Halogen-free versions available on request)

Application:
- See part no. 400241

1.6/7.3 (series RG 11) PVC, green
Solid, bare Cu 1.6 mm, insulation: Foam-Skin-PE, Ø: 7.3 mm
Al-foil screen + tinned, braided Cu, opt. coating 90%
Outer sheath: PVC, sheath colour: green, OD: approx. 10.3 mm
Capacity: 56 pF/m, velocity factor: 0.78 (v/c)
Screening effectiveness: 90 dB
Part no. 400244
(Halogen-free versions available on request)

Application:
- See part no. 400241

Video + Power System Cables (dual construction)
0.8/3.7 + 2 x 0.75 mm² (series RG 59) PVC, black
Solid, bare Cu 0.8 mm, insulation: Foam-Skin-PE, Ø: 3.7 mm
Al-foil screen + tinned, braided Cu, opt. coating 90%
Element sheath: PVC, sheath colour: black, OD: approx. 6.1 mm
Control cores: bare Cu cl. 5, insulation: black + red PVC
Overall diameter: approx. 12.6 x 6.1 mm
Capacity: 55 pF/m, velocity factor: 0.78 (v/c)
Screening effectiveness: 90 dB
Part no. 400245

Application:
- Studio and broadcasting, video surveillance
- Large transmission capacities
- With parallel power supply

FIND MORE CABLES IN OUR ONLINE SHOP

Antenna cable (SAT/BK), and Coax cables RG types, for example RG58, RG59, RG62, RG174, RG213, etc.

Fibre-optic cables

Network cables (Cat5/6/7)

PLUGS

XLR

11025766 11025767 11025768

Part no.	Part name	Description
11025765	NC3FXX	XLR 3-pin socket, nickel-plated housing, silver-plated contacts
11025766	NC3FXX-BAG	XLR 3-pin socket, black chrome housing, silver-plated contacts
11025767	NC3MXX	XLR 3-pin plug, nickle-plated housing, silver-plated contacts
11025768	NC3MXX-BAG	XLR 3-pin plug, black chrome housing, silver-plated contacts
11025769	NC5FXX-BAG	XLR 5-pin socket, black chrome housing, silver-plated contacts
11025770	NC5MXX-BAG	XLR 5-pin plug, black chrome housing, silver-plated contacts
11025771	NC5FX1-TOP	XLR 5-pin socket, TOP series (TRUE OUTDOOR PROTECTION), IP65, gold-plated contacts
11025772	NC5MX1-TOP	XLR 5-pin plug, TOP series (TRUE OUTDOOR PROTECTION), IP65, gold-plated contacts

speakON®

11025773 11025774 11025775

Part no.	Part name	Description
11025773	NL2FXX-W-S	speakON® 2-pin socket, screw terminals, tension-relief collet, for cable Ø 6-12 mm
11025774	NL4FXX-W-S	speakON® 4-pin socket, screw terminals, tension-relief collet, for cable Ø 6-12 mm
11025775	NL4FXX-W-L	speakON® 4-pin socket, screw terminals, tension-relief collet, for cable Ø 10-16 mm

Jacks

11025784 11025785 11025786 11025787 11025789 11025790

Part no.	Part name	Description
11025784	NP2X	6.35 mm, 2-pin jack plug, nickel housing, nickel-plated contacts
11025785	NP2X-B	6.35 mm, 2-pin jack plug, black housing, gold-plated contacts
11025786	NP2X-BAG	6.35 mm, 2-pin jack plug, black housing, nickel-plated contacts
11025787	NP2XX-SILENT	6.35 mm, 2-pin jack plug, SILENT PLUG, black/red housing, gold-plated contacts
11025788	NP2RX-AU-SILENT	6.35 mm, 2-pin jack plug, 90° angle, SILENT PLUG, red/black housing, gold-plated contacts
11025789	NP2RX-BAG	6.35 mm, 2-pin jack plug, 90° angle, black housing, nickel-plated contacts
11025790	NP3X	6.35 mm, 3-pin jack plug, nickel housing, nickel-plated contacts

powerCON®

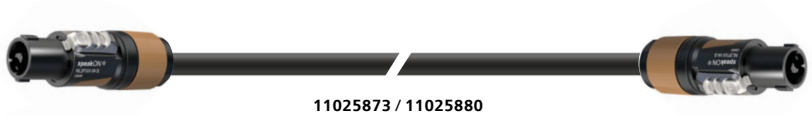
11025780 11025781 11025782 11025783

Part no.	Part name	Description
11025776	NAC3FX-W-TOP*	TRUE1 TOP socket, with locking mechanism, screw connection, 16A, Ø 6-12 mm, for outdoor use, IP65
11025777	NAC3FX-W-TOP-L*	TRUE1 TOP socket, with locking mechanism, screw connection, 16A, Ø 10-16 mm, for outdoor use, IP65
11025778	NAC3MX-W-TOP*	TRUE1 TOP plug, with locking mechanism, screw connection, 16A, Ø 6-12 mm, for outdoor use, IP65
11025779	NAC3MX-W-TOP-L*	TRUE1 TOP plug, with locking mechanism, screw connection, 16A, Ø 10-16 mm, for outdoor use, IP65
11025780	NAC3FXXA-W-S	Plug, blue, power in, Ø 6-12 mm, lockable, 16A, IP20
11025781	NAC3FXXA-W-L	Plug, blue, power in, Ø 10-16 mm, lockable, 16A, IP20
11025782	NAC3FXXB-W-S	Plug, grey, for power out, Ø 6-12 m, lockable, 16A, IP20
11025783	NAC3FXXB-W-L	Plug, grey, for power out, Ø 10-16 mm, lockable, 16A, IP20

* Discontinued part, replaced by: NAC3F-TRUE1 / NAC3M-TRUE1

ASSEMBLIES

*** Incl. transp. heat-shrink tubing for individual labelling on both sides.**



11025873 / 11025880

11025887 / 11025894 / 11025901 / 11025908

Speaker Cables & speakON®

Part no.	Cable	Plug 1	Plug 2	Lengths
11025873	2 x 1.5 mm²	NL2FXX-W-S	NL2FXX-W-S	1 m/2.5 m/5 m/10 m/15 m/20 m/25 m
11025880	2 x 2.5 mm²	NL2FXX-W-S	NL2FXX-W-S	1 m/2.5 m/5 m/10 m/15 m/20 m/25 m
11025887	2 x 2.5 mm²	NL4FXX-W-S	NL4FXX-W-S	1 m/2.5 m/5 m/10 m/15 m/20 m/25 m
11025894	2 x 4.0 mm²	NL4FXX-W-S	NL4FXX-W-S	1 m/2.5 m/5 m/10 m/15 m/20 m/25 m
11025901	4 x 2.5 mm²	NL4FXX-W-S	NL4FXX-W-S	1 m/2.5 m/5 m/10 m/15 m/20 m/25 m
11025908	4 x 4.0 mm²	NL4FXX-W-S	NL4FXX-W-S	1 m/2.5 m/5 m/10 m/15 m/20 m/25 m

11025938

11025950

Microphone Cable & XLR/Jack (2-pin)

Part no.	Cable	Plug 1	Plug 2	Lengths
11025938	2 x 0.22 mm²	XLR plug NC3MXX-BAG	XLR socket NC3FXX-BAG	0.5 m/1 m/2.5 m/5 m/7.5 m/10 m/15 m/20 m
11025946	2 x 0.22 mm²	XLR socket NC3FXX	jack NP2X	1.5 m/3 m/5 m/10 m
11025950	2 x 0.22 mm²	XLR plug NC3MXX	jack NP2X	1.5 m/3 m/5 m/10 m

11025960

11025966

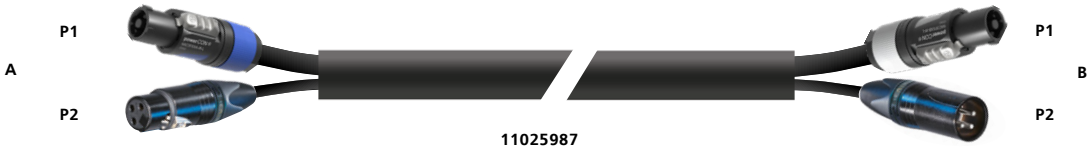
Microphone Cable & XLR/Jack (3-pin)

Part no.	Cable	Plug 1	Plug 2	Lengths
11025954	2 x 0.22 mm²	XLR socket NC3FXX	jack NP3X	0.5 m/1 m/1.5 m/3 m/5 m/10 m
11025960	2 x 0.22 mm²	XLR plug NC3MXX	jack NP3X	0.5 m/1 m/1.5 m/3 m/5 m/10 m
11025966	2 x 0.22 mm²	jack NP3X	jack NP3X	0.5 m/1 m/1.5 m/3 m/5 m/10 m

11025915

DMX Cable & XLR

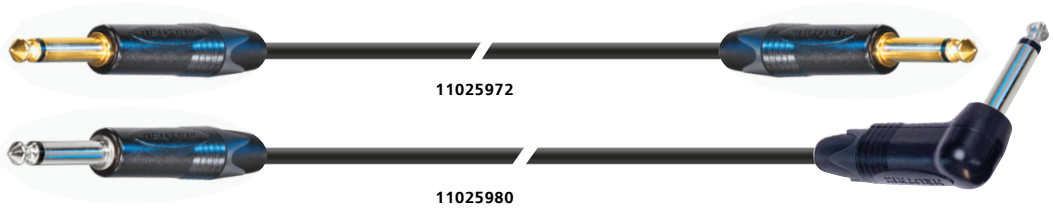
Part no.	Cable	Plug 1	Plug 2	Lengths
11025915	2 x 0.34mm²	XLR 3P socket NC3FXX-BAG	XLR 3P plug NC3MXX-BAG	2.5 m/5 m/10 m/20 m/50 m
11025920	2 x 0.34mm²	XLR 5P socket NC5FXX-BAG	XLR 5P plug NC5MXX-BAG	2.5 m/5 m/10 m/20 m/50 m
11025925	4 x 0.34mm²	XLR 5P socket NC5FXX-BAG	XLR 5P plug NC5MXX-BAG	2.5 m/5 m/10 m/20 m/50 m
11025930	2 x 0.34 mm²	XLR 3P plug NC3MXX-BAG	XLR 5P socket NC5FXX-BAG	0.1 m/1 m/2.5 m/5 m
11025934	2 x 0.34 mm²	XLR 5P plug NC5MXX-BAG	XLR 3P socket NC3FXX-BAG	0.1 m/1 m/2.5 m/5 m



11025987

DMX + Power Cable & XLR / powerCON®

Part no.	Side A - Plug 1	Side A - Plug 2	Side B - Plug 1	Side B - Plug 2	Lengths
			DMX 1x2x0.25 + Power 3G1.5 QMM Cable		
11025987	NC3FXX-BAG	NAC3FXXA-W-L	NC3MXX-BAG	NAC3FXXB-W-L	1.5 m/3 m/5 m/10 m
11025991	NC5FXX-BAG	NAC3FXXA-W-L	NC5MXX-BAG	NAC3FXXB-W-L	1.5 m/3 m/5 m/10 m
11025995	NC3FXX-BAG	NAC3FX-W-TOP	NC3MXX-BAG	NAC3MX-W-TOP	1.5 m/3 m/5 m/10 m
11025999	NC5FXX-BAG	NAC3FX-W-TOP	NC5MXX-BAG	NAC3MX-W-TOP	1.5 m/3 m/5 m/10 m
11026003	NC5FX1-TOP	NAC3FX-W-TOP	NC5MX1-TOP	NAC3MX-W-TOP	1.5 m/3 m/5 m/10 m
			DMX 1x2x0.25 + Power 3G2.5 QMM Cable		
11026007	NC3FXX-BAG	NAC3FXXA-W-L	NC3MXX-BAG	NAC3FXXB-W-L	1.5 m/3 m/5 m/10 m
11026011	NC5FXX-BAG	NAC3FXXA-W-L	NC5MXX-BAG	NAC3FXXB-W-L	1.5 m/3 m/5 m/10 m
11026015	NC3FXX-BAG	NAC3FX-W-TOP	NC3MXX-BAG	NAC3MX-W-TOP	1.5 m/3 m/5 m/10 m
11026019	NC5FXX-BAG	NAC3FX-W-TOP	NC5MXX-BAG	NAC3MX-W-TOP	1.5 m/3 m/5 m/10 m
11026023	NC5FX1-TOP	NAC3FX-W-TOP	NC5MX1-TOP	NAC3MX-W-TOP	1.5 m/3 m/5 m/10 m



11025972

11025980

Instrument Cables & Jacks

Part no.	Cable	Plug 1	Plug 2	Lengths
11025972	1 x 0.38 mm²	jack NP2X-B	jack NP2X-B	1.5 m/3 m/4.5 m/6 m/9 m
11025977	1 x 0.38 mm²	jack NP2X-B	jack NP2XX-SILENT	3 m/6 m/9 m
11025980	1 x 0.38 mm²	jack NP2X-BAG	jack NP2RX-BAG 90°	3 m/4.5 m/6 m/9 m
11025984	1 x 0.38 mm²	jack NP2X-B	jack NP2RX-AU-SILENT 90°	3 m/6 m/9 m

11026027

11026030

Titanex Load Cables & powerCON®

Part no.	Cable application	Plug 1	Plug 2	Lengths
		3G1.5 QMM		
11026027	Indoor IP20	NAC3FXXA-W	open end	1.5m /3m /5m
11026030	Indoor IP20	NAC3FXXA-W	NAC3FXXB-W	1.5m/3m/5m/10m
11026034	Outdoor	NAC3FX-W-TOP	open end	1.5m/3m/5m/10m
11026038	Outdoor	NAC3FX-W-TOP	NAC3MX-W-TOP	1.5m/3m/5m/10m
		3G2.5 QMM		
11026042	Indoor IP20	NAC3FXXA-W	open end	1.5m/3m/5m
11026045	Indoor IP20	NAC3FXXA-W	NAC3FXXB-W	1.5m/3m/5m/10m
11026049	Outdoor	NAC3FX-W-TOP	open end	1.5m/3m/5m/10m
11026053	Outdoor	NAC3FX-W-TOP	NAC3MX-W-TOP	1.5m/3m/5m/10m

11026058

11026079

Data Cable CAT 6a PUR Black & etherCON®

Part no.	Cable	etherCON® Plug 1	etherCON® Plug 2	Lengths
11026057	Cat 6a PUR bk	nickel Indoor IP20 NE8MX-1+RJ45	same as plug 1	0.5 m/1 m/2 m/3 m/5 m/7.5 m/10 m/15 m/20 m/30 m
11026067	Cat 6a PUR bk	RJ45, Indoor IP20 RJ45+black bushing	same as plug 1	0.5 m/1 m/2 m/3 m/5 m/7.5 m/10 m/15 m/20 m/30 m
11026077	Cat 6a PUR bk	black Outdoor IP65 NE8MX-B-TOP+RJ45	same as plug 1	0.5 m/1 m/2 m/3 m/5 m/7.5 m/10 m/15 m/20 m/30 m

Ultraflex Highspeed Cables & HDMI 2.0

Part no.	Cable	Plug 1	Plug 2	Outer diameter	Lengths
11025635	Multimedia Ultraflex	HDMI 2.0	HDMI 2.0	approx. 7.8 mm	0.5m
11025636	Multimedia Ultraflex	HDMI 2.0	HDMI 2.0	approx. 7.8 mm	1m
11025565	Multimedia Ultraflex	HDMI 2.0	HDMI 2.0	approx. 7.8 mm	2m
11025637	Multimedia Ultraflex	HDMI 2.0	HDMI 2.0	approx. 7.8 mm	3m
11025566	Multimedia Ultraflex	HDMI 2.0	HDMI 2.0	approx. 7.8 mm	5m
11025638	Multimedia Ultraflex	HDMI 2.0	HDMI 2.0	approx. 8.0 mm	7,5m
11025567	Multimedia Ultraflex	HDMI 2.0	HDMI 2.0	approx. 8.0 mm	10m
11025561	Multimedia Ultraflex	HDMI 2.0	HDMI 2.0	approx. 9.0 mm	15m
11025639	Multimedia Ultraflex	HDMI 2.0	HDMI 2.0	approx. 9.0 mm	20m

ACCESSORIES

Defender III cable bridge

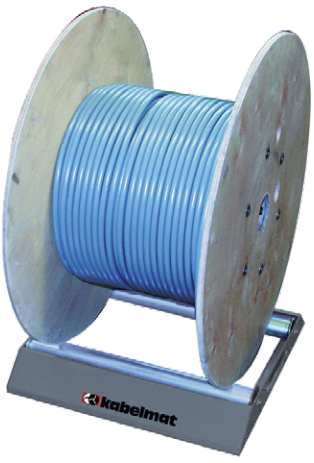
Base module
With plastic closure to protect cables, 3 channels
L: approx. 100 cm, W: approx. 60 cm, H: approx. 7.3 cm
Load cap.: approx. 5 tonnes (20 x 20 cm)
Part no. 11026102

End piece for base module
Reduces risk of tripping
Part no. 11026103

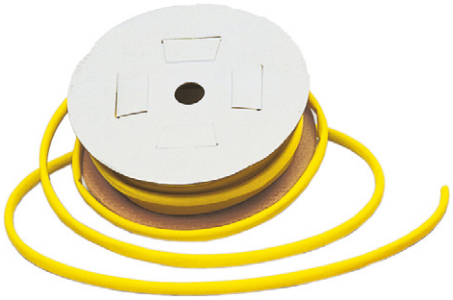
Drum unwinder HELUTOOL 250 pocket
For easily unwinding cable drums
Carrying cap.: approx. 190 kg
Diameter: approx. 250 mm
Part no. 903716

Drum unwinder HELUTOOL 190
For easily unwinding cable drums
Carrying cap.: approx. 380 kg
Diameter: approx. 500 mm
Part no. 93529

Drum unwinder TROMBOI 500, shaftless
For drums of varying diameters
Compact design with loading ramp
Robust, welded-steel construction
Ball-bearing axes
Carrying cap.: approx. 140 kg
Drum Ø min. – max.: 150 -700 mm
Drum width: max 520 mm
Part no. 904760



Heat-shrink tubing, colour, coil (2:1)
Replace "x" with the following number to receive the desired colour:
0=white, 1=blue, 2=yellow, 3=red, 4=transparent, 5=green/yellow, 6=brown, 7=orange, 8=grey, 9=green



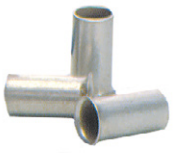
Part no.	Description	Inner Ø before shrinking	Inner Ø after shrinking
9236x	Polyolefin heat-shrink tubing, wall thick. 0.6 mm, contents: 10 m	6.4 mm	3.2 mm
9237x	Polyolefin heat-shrink tubing, wall thick. 0.6 mm, contents: 10 m	9.5 mm	4.7 mm
9238x	Polyolefin heat-shrink tubing, wall thick. 0.6 mm, contents: 10 m	12.7 mm	6.4 mm
9239x	Polyolefin heat-shrink tubing, wall thick. 0.8 mm, contents: 10 m	19.1 mm	9.5 mm
9240x	Polyolefin heat-shrink tubing, wall thick. 0.9 mm, contents: 10 m	25.4 mm	12.7 mm

Fibre tape, matt, black
Ideal for use in event engineering and on stages for bundling, securing, protecting, and identifying. Very rip resistant lengthwise (64 N/10 mm) easy to tear in transverse direction. Operating temperature: -30°C – +80°C

Part no.	Description	Thickness	Width	Length
11026088	Fibre tape matt black	0.31 mm	19 mm	10 m
11026089	Fibre tape matt black	0.31 mm	19 mm	50 m
11026090	Fibre tape matt black	0.31 mm	50 mm	50 m

More accessories for cable protection

Ferrules
Uninsulated ferrules prevent stripped wires from splaying.
Perfect for assembling speaker cables with speakON® plugs.



Part no.	Description	Length
91376	Nominal cross-sec.: 1.5 mm² (1000 pc./unit)	10.0 mm
93097	Nominal cross-sec.: 2.5 mm² (1000 pc./unit)	10.0 mm
94000	Nominal cross-sec.: 4.0 mm² (1000 pc./unit)	12.0 mm

More cable ferrules

Velcro cable ties

Material: KLL: polyamide fleece, KLÖ: PE dual lock tape. Halogen free. Especially suited for sensitive cables and wires that must be bundled or secured in a way that prevents kinking or crushing. Reusable (up to 10,000 uses).

Part no.	Description	Dimensions
93730	KLL velcro cable ties with stamped hole on a roll, black, bundle Ø 45 mm, 1000 pc./unit	150 x 20 mm
93731	KLL velcro cable ties with stamped hole on a roll, black, bundle Ø 60 mm, 750 pc./unit	200 x 20 mm
93732	KLL velcro cable ties with stamped hole on a roll, black, bundle Ø 100 mm, 450 pc./unit	330 x 20 mm
93735	KLÖ velcro cable ties with plastic eyelet in polybags, black, bundle Ø 55 mm, 10 pc.	195 x 25 mm
93736	KLÖ velcro cable ties with plastic eyelet in polybags, black, bundle Ø 70 mm, 10 pc.	240 x 25 mm
93737	KLÖ velcro cable ties with plastic eyelet in polybags, black, bundle Ø 110 mm, 10 pc.	360 x 25 mm

Cable ties, black, with plastic lug

Material: polyamide (PA) 6.6, halogen free, weather resistant. Temperature range: -40°C to +85°C, short-term exposure up to +105°C. For bundling and securing. Suitable for use outdoors. 100 pc./unit

Part no.	Description	Dimensions width x length
905525	T-WS 25/100 BK, black, bundle Ø 22 mm	2.5 x 100 mm
905527	T-WS 25/140 BK, black, bundle Ø 35 mm	2.5 x 145 mm
905529	T-WS 35/150 BK, black, bundle Ø 35 mm	3.5 x 150 mm
905530	T-WS 35/190 BK, black, bundle Ø 50 mm	3.5 x 198 mm
905533	T-WS 46/200 BK, black, bundle Ø 55 mm	4.7 x 210 mm
905537	T-WS 47/300 BK, black, bundle Ø 85 mm	4.7 x 305 mm
906682	T-WS 46/390 BK, black, bundle Ø 110 mm	4.7 x 390 mm
905541	T-WS 76/460 BK, black, bundle Ø 125 mm	7.6 x 460 mm
906684	T-WS 76/760 BK, black, bundle Ø 225 mm	7.6 x 760 mm

More accessories for tying, bundling, and securing

TOOLS

Helutool HKS 1 cable shears
For cutting and stripping finely stranded Cu and Al conductors.
Blade made of special stainless steel according to EN10020
Fine toothing on the blade prevents the cable from slipping.
Integrated cutter for cables up to 50 mm²
Incl. case
Part no. 908229

Multistrip 10 cable stripper
For PVC, rubber, etc. cables with single- and multi-conductors
Cable stripper adjustable to 10 mm
Robust metal clamp
Ergonomic two-component handle
Part no. 904731

HAZ16 ADE hexagonal crimping pliers
Crimping area: 0.08–16.0 mm²
For insulated ADI ferrules and DUO ferrules
Material: high-strength special steel
Burnished surface
Press width: 18 mm
Length: 215 mm
Part no. 909930

Helutool HAM 29 stripping tool
Diameter range: 4.5–29.0 mm
Cut depth: 0.10–3.00 mm
Features a quick-clamping system
Suitable for soft and hard cable insulation types
Blade is specially cut for the clean removal of the
outer sheath. Round, profile, and spiral cuts possible
Cut depth adjustable in increments
Part no. 11022249

More tools

Glossary

AES/EBU
The informal name of a digital audio standard created jointly by the AES (Audio Engineering Society) and the EBU (European Broadcasting Union) organisations. The standard defines the transmission characteristics of digital signals to simplify communication between devices. The connection cable serves to transmit digital stereo and mono audio signals. Primarily for professional recording studios For coaxial cables, BNC connectors are used, and for symmetrical cables, XLR plugs are used.

Analogue
An analog signal is a physically measurable quantity (such as a voltage) that varies in frequency and amplitude and is used to transmit information. Analog cables transmit analog signals in the low-frequency range. They are used in audio applications to connect instruments, microphones, speakers, and other components.

Attenuation
The reduction of the strength of a signal between to cross-sectional areas of a fibre. It is dependent on the wavelength. Primary causes: diffusion, absorption. It is measured in "dB", calculated as 10log P(L1)/P(L2).

Attenuation constant
Also known as the attenuation coefficient, this is the attenuation of a cable with regard to its length while stationary (unit: dB/km or dB/100).

Cable core
The entirety of the braided elements present inside the cable, as well as all of the elements encasing them.

Cable screen
Conductive cable or wire cover that protects the individual cores or the entire braided structure against external electromagnetic influences.

Cable sheath
The cable sheath generally consists of polyethylene (PE), polyvinyl chloride (PVC), or halogen-free materials (H) which protect the cable"s core from environmental factors.

Coaxial cables
Concentric conductor pair consisting of an inner conductor and an outer conductor which completely envelops the inner conductor. The inner and outer conductors are are insulated from one another using a homogeneous material or a combination of a solid supporting body and a gas.

Conductors
Conductors carry electrical charges and therefore consist of electrically conductive material (metal). Conductors are typically round.

Conductor resistance
Conductor resistance is determined by the quality of the copper used and the diameter of the conductor. It increases linearly with the length of the cable and is decisive for attenuation.

Corrosiveness
The production of corrosive gases and acids when cables and wires are burned. Non-corrosive cables should be used in indoor installations. Halogen-free cables are typically non-corrosive.

Digital
Digital signals have multiple informational parameter, e.g., 8, 16, 32, or 64, which, in serial signals, are transmitted one after the other chronologically, and, in parallel signals, are transmitted in parallel. The 1/0-coded representation of information such as digits and letters, or the bit patterns of analogue signals (sounds, images, videos, measured values, etc.) generated by sampling and quantisation. In media technology, digital signals in the AES/EBU, S/PDIF and DMX standards are transmitted using digital cables. This digital cable connects scanners, lighting consoles, studio equipment, and other HiFi components.

DMX (DMX cable)
DMX stands for Digital Multiplex. In lighting technology, DMX cables are used to control dimming, spotlights, and effects processors.

EMC
Electromagnetic compatibility This is an electric installation's ability to function properly within its electromagnetic environment without improperly influencing the other installations within it, or allowing itself to be influenced.

Ethercon
Ethercon is a robust and lockable Ethernet connector from Neutrik which is designed for network applications for professional audio and stage lighting systems such as Audio-over-Ethernet and Audio-over-IP, as well as for transmitting data to large LED displays. The design is an adaptation of the XLR plug.

FRNC
Flame retardant (FR) and non-corrosive (NC).

Halogen-free
No halides (e.g. chlorine) used. Halogen-free cables are used in areas with elevated fire protection requirements relating to personal safety (public buildings) or with high concentrations of valuable materials. In the case of fire, they do not release any corrosive gases and the amounts of toxic gases released are significantly lower than with PVC materials.

HD-SDI
The standard known as HD Serial Digital Interface (HD-SDI) is described in the SMPTE 292M. Despite this standard being known as the 1.5-Gbit/s interface, the bitrates supported by HD-SDI are actually 1.485 Gbit/s and 1.485/1.001 Gbit/s. HD-SDI is used to transmit uncompressed image signals for HD, digital intermediate, and digital cinema in studio and production environments. All HD-SDI connections are able to transmit picture, sound, and metadata.

Hybrid cable
Consists of at least two different types of cables (e.g., power and audio cables) enclosed within one sheath.

Impedance
Impedance of the electrical two-port network; it is composed of the ohmic resistance and the reactance, the frequency-dependent resistances and capacitances. The impedance is determined by the physical dimensions of the inner conductor, dielectric, and screen.

Indoor cable
Cables for applications within buildings. Not suitable for outdoor installations.

Interference
Disruption, impairment, reduced functionality

Jack
Plug for the transmission of low voltages. This is often used in the audio sector, e.g., for instruments such as electric guitars. They are available in 2-pin (TS = tip, sleeve) and 3-pin (TRS = tip, ring, sleeve) designs. Conventional sizes are 6.35 mm and 3.5 mm (mini jack).

LED
An LED is a semiconductor light source that emits light when current flows through it.

Load multicores (load cables)
Electronic cable that contains multiple electricity-carrying cores for multiple power connections within a single cable. These are used in, e.g., the cabling of spotlights in professional stage and lighting engineering.

LS0H
Low smoke (LS) and halogen free (0H).

Multicore (multipair)
Electrical cable which contains multiple signal or power cores.

Multipair cable
Electrical cable which consists of multiple groups of twisted-pair conductors.

Outdoor cable
Cables that are constructed to meet the demands of underground and pipe installations are sufficient.

Patch cable
Flexible connection cable for connecting two components, e.g., in a wiring closet.

Polyethylene (PE)
Saturated hydrocarbon polymer of repeating ethylene units, variable density. With its excellent dielectric properties, e.g., low density, high toughness and elongation, very good electrical insulation behaviour, low water absorption, and being practically insoluble in almost all organic solvents, it is indispensable as an insulation material in the cable industry.

Polyurethane (PUR)
Thermoplastic polyurethanes have similar properties to polyamides but, unlike them, they absorb hardly any water, have excellent mechanical properties, are impact resistant, notch resistant, and highly flexible at low temperatures, and have good abrasion resistance.

Polyvinyl chloride (PVC)
Polyvinyl chloride is a thermoplastic manufactured for the cable industry using the suspension polymerisation process (PVC-S). It is an odourless, granulated, white powder. It is electrolyte-free and therefore exhibits very good dielectric properties.

Powercon
Neutrik mains connector for powering single-phase AC equipment up to 20 A. Primarily used in stage engineering. Live, neutral, and earth conductors are protected against accidental contact, and are locked against unintentional disconnection.

Screen
The screens can be arranged in cables and leads around individual elements in the cable or lead assembly, or around the entire stranded assembly. The construction of the screen always depends on the intended use of the product. They mostly have the task of keeping external electrical influences away from conductors and cables, and preventing the emission of these fields (transfer impedance). The screening can consist of braids, wrappings, metal foils, laminated foils, or steel wire armour.

Screening attenuation
Measure of the reduction or attenuation of the electromagnetic field strength at a point in space, caused by the insertion of an electromagnetic screen between the field source and this point, usually expressed in dB.

SDI
The SMPTE group developed the SDI (Serial Digital Interface) digital video interface standard. This serial interface uses one channel to send all bits of the data word and the associated data. Due to their high data rate, serial digital signals must be processed before transmission. SDI is a digital video transmission technology widely used in broadcasting, live events, and other professional environments. It uses two coaxial cables to transmit a digital signal over fibre optic at speeds from 270 Mbit/s to 12 Gbit/s.

SpeakON
Connector from Neutrik, used almost as a standard for the transmission of loudspeaker signals. They have larger contact areas compared to the XLR or jack connectors used previously and feature touch-proof contacts. They are available with 2, 4, and 8 pins.

Star quad
Stranding element consisting of four twisted pairs, where each pair of opposing cores forms a transmission path (leg).

Symmetrical transmission (balanced)
A method for transmitting signals over longer distances with maximum tolerance to interference. The transmission occurs not with just a single signal conductor, but with a pair of similar signal conductors possessing identical electrical characteristics. The actual signal is transmitted on one conductor, and a reference signal, known to the receiver, is transmitted inverted on the other conductor. Interference is summed out and cancelled. Symmetrical cables are typically used with XLR connectors in professional audio engineering.

Unbalanced transmission
(unbalanced, asymmetrical)
In unbalanced transmission, the conductors have different electrical properties. Signal transmission occurs through only one conductor with respect to a reference, usually the screen. An induced interference arrives differently at both cores at the signal receiver, resulting in a distorted signal. Unbalanced transmission is found in semi-professional audio applications in conjunction with RCA or jack connectors.

XLR
XLR connectors are frequently used in professional stage and lighting technology for the transmission of DMX control signals. They are also used in professional studio technology, for microphone and loudspeaker cables.

Glossary

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Our product experts are glad to assist you with questions and provide you with custom solutions:

Andreas Häse
Senior Product Specialist
Media Technology
Tel: +49 7150 9209 896
andreas.haese@helukabel.de

Udo Braun
Product Manager
Core Products
Phone: +49 7150 9209 731
udo.braun@helukabel.de

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Channeling POWER

HELUKABEL® GmbH | Schloßhaldenstraße 10 | D-71282 · Hemmingen | Phone +49 7150 9209-0 | info@helukabel.de | www.helukabel.com