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HELUKABEL®



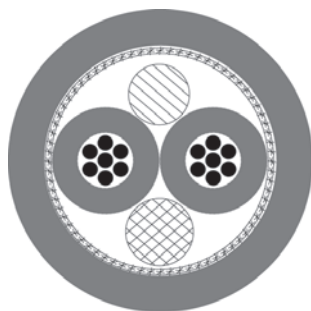
Cables & Wires

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Audio

Audio cables with braided shielding

HELUSOUND®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

HELUSOUND audio cable analog

2x0,25 + 0,25

Copper, bare
PVC
rd, wh
2 cores with 1 filler and 1 earth conductor stranded
PVC
approx. 3,4 mm
black

Electrical data

Conductor resistance, max.: 75 Ohm/km
Insulation resistance, min.: 5 MOhm x km

Technical data

Weight: approx. 20 kg/km
Min. bending radius for laying: 35 mm
Operating temperature range min.: -25°C
Operating temperature range max.: +70°C
Copper weight: 13,5 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.	Cable structure	Conductor resistance Ohm / km	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400000	2x0,25 + 0,25	< 75,0	3,4	13,5	20,0
400001	2x0,33+0,33	< 60,0	4,0	16,3	26,0
400002	2x0,5+0,33	< 36,8	5,6	26,1	49,0

Dimensions and specifications may be changed without prior notice.

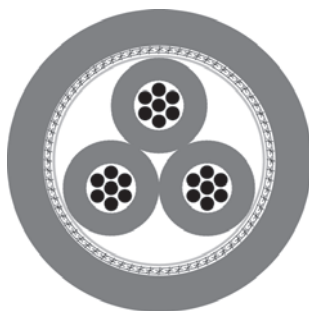
Application

The HELUSOUND® audio cable is a 2-core, shielded multipurpose cable with earth conductor. It is particularly suitable for use in microphone, radio, studio and transmission systems.
Analog cable for short transmission distances and low frequencies.

Audio

Audio cables, multicore, with braided shielding

HELUSOUND



Type

Cable structure

Conductor material:

Core insulation:

Stranding element:

Sheath material:

Cable external diameter:

Sheath colour:

HELUSOUND audio cable analog

2x0,26

Copper, bare

PE

pairs stranded

PVC

approx. 5,2 mm

black

Electrical data

Conductor resistance, max.:

Insulation resistance, min.:

73,9 Ohm/km

1 GOhm x km

Technical data

Weight:

Min. bending radius for laying:

Operating temperature range min.:

Operating temperature range max.:

Copper weight:

approx. 37 kg/km

52 mm

-25°C

+70°C

16,8 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.	Cable structure	Conductor resistance Ohm / km	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400003	2x0,26	< 73,9	5,2	16,8	37,0
400004	2x0,33	< 61,6	5,3	18,2	38,0
400005	4x0,33	< 61,6	5,9	27,2	52,0
400006	2x0,50	< 39,0	5,7	22,0	46,0
400007	2x0,75	< 26,0	7,2	30,0	70,0
400008	3x0,75	< 26,0	7,7	50,0	90,0
400009	4x0,75	< 26,0	8,3	60,0	102,0
400010	5x0,75	< 26,0	8,9	72,0	120,0

Dimensions and specifications may be changed without prior notice.

Application

The 2-5-core shielded HELUSOUND® audio cable with a common PE core insulation, braided shielding and PVC outer sheath is especially well suited for use in microphone, loudspeaker, radio and transmission systems.

Audio

Audio cables with foil shielding, single pair

HELUSOUND®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

Analog audio cables

2x0,22

Copper, tinned
PE
rd, bu
2 cores with 1 filler
PVC
approx. 3,4 mm
black

Electrical data

Conductor resistance, max.:
Insulation resistance, min.:

86 Ohm/km
1 GOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 17 kg/km
35 mm
-25°C
+70°C
6,6 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.

400011

Dimensions and specifications may be changed without prior notice.

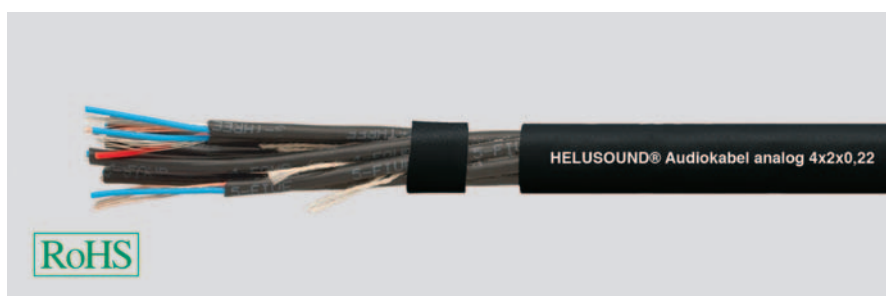
Application

The 2-core HELUSOUND® audio cable is a foil shielded cable with earth conductor. This symmetrical cable is suitable for use in racks and for studio cabling.

Audio

Audio cables, multipaired, pairs with foil shielding

HELUSOUND®



Type

Cable structure

Conductor material:

Core insulation:

Core colours:

Stranding element:

Sheath material:

Cable external diameter:

Sheath colour:

Analog audio cables

2x2x0,22

Copper, tinned

PE

rd, bu

pairs stranded

PVC

approx. 7,6 mm

black

Electrical data

Conductor resistance, max.:

Insulation resistance, min.:

86 Ohm/km

1 GOhm x km

Technical data

Weight:

Min. bending radius for laying:

Operating temperature range min.:

Operating temperature range max.:

Copper weight:

approx. 72 kg/km

76 mm

-25°C

+70°C

15,0 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.	Cable structure	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400012	2x2x0,22	7,6	15,0	72,0
400013	4x2x0,22	9,2	29,0	100,0
400014	8x2x0,22	12,2	59,0	179,0
400015	12x2x0,22	14,2	90,0	248,0
400016	16x2x0,22	16,4	111,0	337,0
400017	20x2x0,22	18,4	149,0	421,0
400018	24x2x0,22	20,4	178,0	493,0
400019	32x2x0,22	22,4	238,0	620,0
400020	40x2x0,22	24,6	303,0	759,0

Dimensions and specifications may be changed without prior notice.

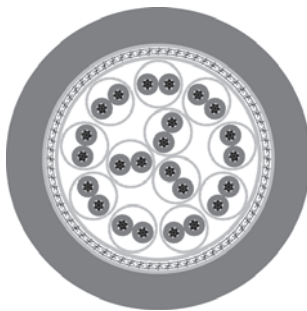
Application

The HELUSOUND® audio cable is an insulated, multi-core audio cable which is screened symmetrically and in pairs. The cable is particularly suitable for permanent laying in public buildings, such as, e.g. theatres or music stages and for permanent studio installation.

Audio

Audio cables, multipaired, spirally screened pairs and overall braided shielding

HELUSOUND®



Type

Cable structure

Conductor material:
Core insulation:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

Analog audio cables

12x2x0,14

Copper, tinned
TPE
pairs stranded
PUR
approx. 12,7 mm
black

Analog audio cables

16x2x0,14

Copper, tinned
TPE
pairs stranded
PUR
approx. 14,1 mm
black

Electrical data

Conductor resistance, max.:
Insulation resistance, min.:

150 Ohm/km
100 MOhm x km

150 Ohm/km
100 MOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 190 kg/km
127 mm
-25°C
+70°C
118,0 kg/km

approx. 247 kg/km
142 mm
-25°C
+70°C
165,0 kg/km

Norms

Halogen-free acc. to 60754-2

Halogen-free acc. to 60754-2

Part no.

400042

400043

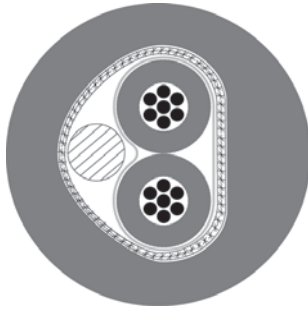
Dimensions and specifications may be changed without prior notice.

Application

The multipaired HELUSOUND® special sound audio cable has individually shielded pairs and is protected by an additional braided shielding and ribbed PUR sheath. This cable is particularly suitable for use in mobile radio and transmission systems.

Audio

AES/EBU digital audio cables, single pair, with spiral screen

HELUSOUND®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

Digital audio cables

2x0,22

Copper, bare
PE
rd, bu
2 cores with 1 earth conductor
PVC
approx. 5,0 mm
black

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:

110 Ohm
86 Ohm/km
1 GOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 35 kg/km
50 mm
-25°C
+70°C
14,7 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.

400021

Dimensions and specifications may be changed without prior notice.

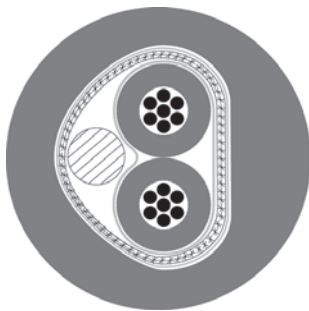
Application

The HELUSOUND® AES/EBU audio cable is a 2-core, symmetrical and shielded digital sound cable with flexible spiral screen and PVC outer sheath. The cable is suitable for longer transmission rates and larger data volumes, the transmission of digital and analog audio signals and can therefore, for example, be used for connecting audio amplifiers, digital mixers, DAT recorders etc. The cable is also available with PUR outer sheath.

Audio

AES/EBU digital audio cables, single pair, foil/braided shielding

HELUSOUND®



Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

Digital audio cables

2x0,22

Copper, tinned
Cell PE
rd, bu
2 cores with 1 earth conductor
PVC
approx. 6,0 mm
black

Electrical data

Characteristic impedance: 110 Ohm
Conductor resistance, max.: 86 Ohm/km
Insulation resistance, min.: 1 GOhm x km

Technical data

Weight: approx. 43 kg/km
Min. bending radius for laying: 60 mm
Operating temperature range min.: -25°C
Operating temperature range max.: +70°C
Copper weight: 16,5 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.	Cable structure	Screen	Conductor resistance Ohm / km	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400022	2x0,22	Foil + braid	< 86,0	6,0	16,5	43,0
400023	2x0,22	Foil + braid	< 86,0	4,5	15,7	25,0
400024	2x0,22	Foil	< 86,0	4,2	7,3	18,0

Dimensions and specifications may be changed without prior notice.

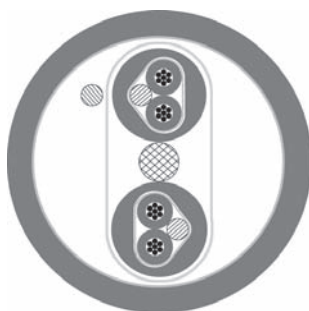
Application

The HELUSOUND® AES/EBU audio cable is a 2-core, symmetrical and shielded digital sound cable. The cable is available in three different versions. The standard version is characterised by double shielding; the patch variant has reduced outside diameter and the foil shielded variant is suitable for the permanent wiring of digital devices. All three versions are suitable for the transmission of digital audio signals.

Audio

AES/EBU digital audio cables, multipaired, pairs with foil shielding and overall foil shielding

HELUSOUND®



Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

Digital audio cables

2x2x0,22

Copper, tinned
Cell PE
rd, bu
2 cores with 1 earth conductor
PVC
approx. 9,9 mm
black

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:

110 Ohm
86 Ohm/km
1 GOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 85 kg/km
100 mm
-25°C
+70°C
16,0 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.	Cable structure	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400025	2x2x0,22	9,9	16,0	85,0
400026	4x2x0,22	11,8	31,0	119,0
400027	6x2x0,22	14,9	46,0	195,0
400028	8x2x0,22	16,1	59,0	232,0
400029	12x2x0,22	19,1	85,0	330,0
400158	24x2x0,22	24,5	162,0	670,0

Dimensions and specifications may be changed without prior notice.

Application

The multipaired, digital HELUSOUND® AES/EBU audio cable is characterised by its shielding in pairs, its element sheaths and by the additional overall sheath. This cable is suitable for the transmission of digital audio signals.

Audio

AES/EBU digital audio cables, multipaired, spirally screened pairs and overall foil shielding

HELUSOUND®



Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

Digital audio cables

12x2x0,22

Copper, bare
Cell PE
rd, bu
2 cores with 1 earth conductor
PVC
approx. 17,0 mm
black

Electrical data

Characteristic impedance: 110 Ohm
Conductor resistance, max.: 86 Ohm/km
Insulation resistance, min.: 1 GOhm x km

Technical data

Weight: approx. 320 kg/km
Min. bending radius for laying: 170 mm
Operating temperature range min.: -20°C
Operating temperature range max.: +70°C
Copper weight: 171,0 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.

400030

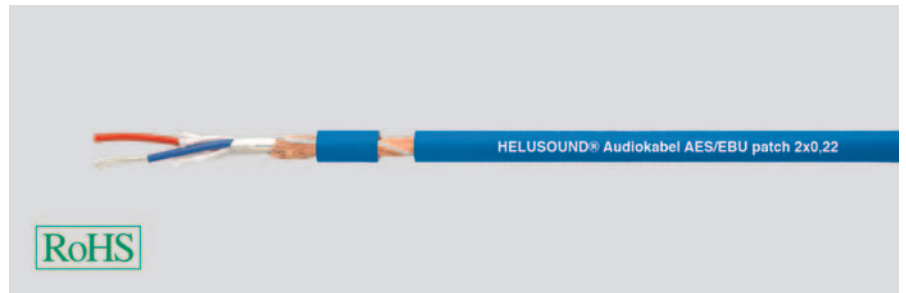
Dimensions and specifications may be changed without prior notice.

Application

The multipaired, digital HELUSOUND® AES/EBU audio cable is characterised by its shielding in pairs, its element sheaths and by the additional overall sheath. This cable is suitable for the transmission of digital audio signals.

Audio & Light

AES/EBU & DMX patch cable

HELULIGHT®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

DMX cables

2x0,22

Copper, tinned
Cell PE
rd, bu
2 cores with 1 filler
PVC
approx. 5,0 mm
blue

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:

110 Ohm
80 Ohm/km
5 GOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 33 kg/km
50 mm
-30°C
+70°C
14,0 kg/km

Part no.

400031

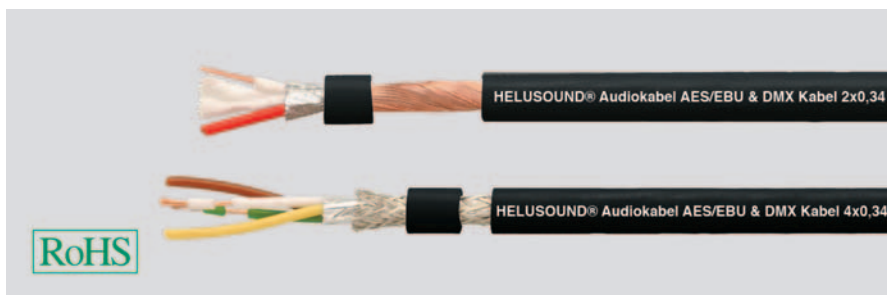
Dimensions and specifications may be changed without prior notice.

Application

The 2-core HELUSOUND® AES/EBU & DMX patch cable is foil shielded and optimally protected against external interference by its copper spiral screen. This cable is suitable for indoor use for permanent laying for the control of lighting systems or for patching in studio technology.

Audio & Light

AES/EBU & DMX cables

HELULIGHT®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

DMX cables

2x0,34

Copper, bare
Cell PE
rd, wh
2 cores with textile filler stranded
PVC
approx. 6,4 mm
black

DMX cables

4x0,34

Copper, bare
Cell PE
wh,gn,bn,ye
Star quad
PVC
approx. 7,0 mm
black

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:

110 Ohm
53 Ohm/km
10 GOhm x km

110 Ohm
53 Ohm/km
5 GOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 50 kg/km
64 mm
-30°C
+70°C
18,0 kg/km

approx. 65 kg/km
70 mm
-30°C
+70°C
29,0 kg/km

Part no.

400032
400033

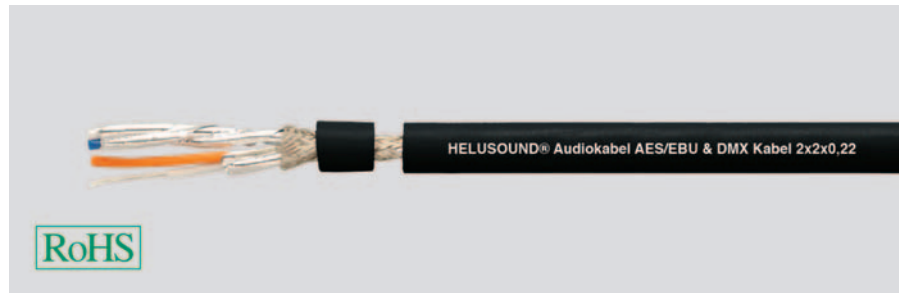
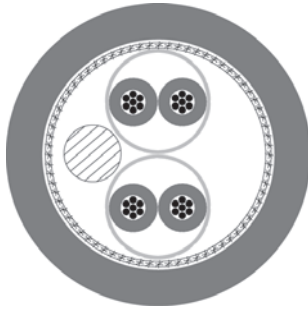
Dimensions and specifications may be changed without prior notice.

Application

The 2-core HELUSOUND® AES/EBU & DMX patch cable is protected against external interferences by its copper spiral screen. This cable is suitable for permanent laying for the control of lighting systems or for connecting digital audio amplifiers. It can be installed indoors and outdoors. The max. transmission path for DMX control amounts approx. 1000m

Audio & Light

AES/EBU TP DMX 512

HELULIGHT®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

DMX cables

2x2x0,22

Copper, tinned
Cell PE
or/wh, bu/wh
pairs stranded
PVC soft
approx. 8,0 mm
black matt

Electrical data

Characteristic impedance:
Conductor resistance, max.:
Insulation resistance, min.:

110 Ohm
85 Ohm/km
100 GOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 76 kg/km
80 mm
-25°C
+70°C
38,0 kg/km

Part no.

400034

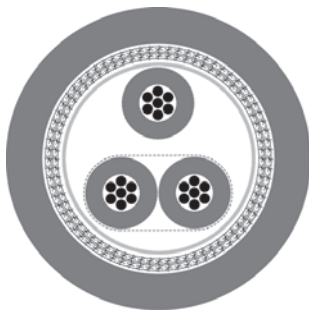
Dimensions and specifications may be changed without prior notice.

Application

The 4-core HELUSOUND® AES/EBU & DMX cable is protected against external interference by its AL/PT foil, its copper spiral screen and its PVC outer sheath. This cable is suitable for controlling all types of digital equipment. Also to use as microphone cable.

Audio & Light

DMX cables, multicore with spiral screen

HELULIGHT®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

DMX cables

2x0,22+0,22

Copper, tinned
PE spumed
wh, bu+rd
pair and core stranded together
PVC
approx. 6,4 mm
black

Electrical data

Characteristic impedance: 110 Ohm
Conductor resistance, max.: 86 Ohm/km
Insulation resistance, min.: 1 MOhm x km

Technical data

Weight: approx. 79 kg/km
Min. bending radius for laying: 64 mm
Operating temperature range min.: -25°C
Operating temperature range max.: +70°C
Copper weight: 66,0 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.

400035

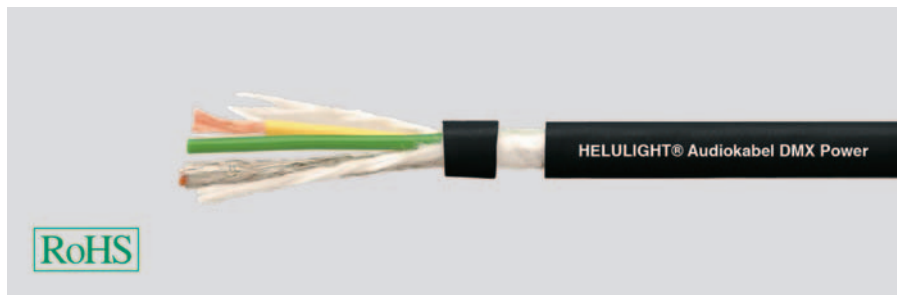
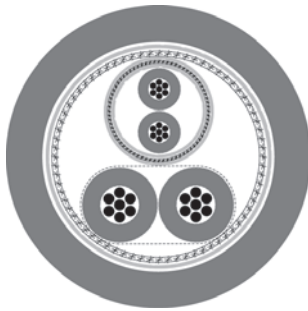
Dimensions and specifications may be changed without prior notice.

Application

The 3-core, shielded HELUSOUND® digital sound cable consists of a symmetrical pair and an additional third core. A double spiral screen and the PVC outer sheath protect the cable against electrical interference. This AES/EBU and DMX compliant (110 Ohm) special cable is suitable for the transmission of digital audio signals and can therefore, for example, be used for connecting digital mixers, audio amplifiers, DAT recorders, light and scanner systems etc.

Light+Power

DMX-POWER

HELULIGHT®


Type

Cable structure

Conductor material:

Core insulation:

Core colours:

Stranding element:

Sheath material:

Cable external diameter:

Sheath colour:

DMX cables

(1x2x0,24)+2x1,0

Copper, bare

Foam-Skin-PE (DMX), PVC (Power)

red, white (DMX); yellow, green (Power)

2 cores with 1 filler

PVC soft

approx. 7,4 mm

black matt

Electrical data

Characteristic impedance:

110 Ohm

Technical data

Weight:

approx. 74 kg/km

Copper weight:

36,0 kg/km

Part no.

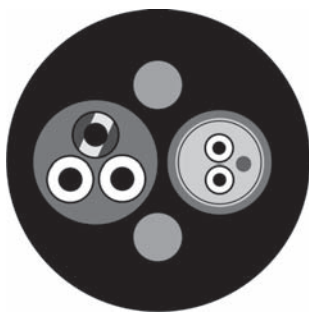
400081

Dimensions and specifications may be changed without prior notice.

Application

The hybrid DMX Power cable is used in the professional DMX light controller. It transmits power for the light and control signals for the movement. The cable is compact, flexible and easy to process.

HELUSOUND® DMX+POWER



Type

Cable structure

Conductor material:
Core insulation:
Core insulation 2:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

DMX cables

(1x2x0,25)+3G1,5

Copper, bare
Foam-Skin-PE (DMX), PVC (Power)
PVC
red, white (DMX); brown, blue, green/yellow (Power)
DMX-Element together with Power-Element and filler stranded
PVC flexible at low temperatures
approx. 13,2 mm
black

Electrical data

Characteristic impedance: 110 Ohm
Conductor resistance, max.: 78 Ohm/km
Insulation resistance, min.: 20 GOhm x km

Technical data

Weight: approx. 50 kg/km
Min. bending radius for laying: 64 mm
Operating temperature range min.: -30°C
Operating temperature range max.: +70°C
Copper weight: 60,5 kg/km

Part no.

400151

Dimensions and specifications may be changed without prior notice.

Application

The HELUSOUND® DMX+POWER hybrid cable combines a shielded light control wire and the power supply wire. The DMX-cable, which is shielded by a tin-coated copper braiding is perfectly suited for the control of light systems and mixing boards (110 Ohm characteristic intrinsic impedance). It highlights a soft PVC insulation and it is qualified for the use at indoor and outdoor installations. The DMX cable can also be used for the transmission of audio signals such as a microphone wire or as a power supply wire for active loudspeaker systems.

Audio

Instrument cables with spiral screen

HELUSOUND®


Type

Cable structure

Conductor material:
Core insulation:
Sheath material:
Cable external diameter:
Sheath colour:

Electrical data

Conductor resistance, max.:
Insulation resistance, min.:

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

Norms

Part no.

Dimensions and specifications may be changed without prior notice.

Instrument cables

1x0,22

Copper, bare
Foam-skin-PE
PVC
approx. 5,9 mm
black

86 Ohm/km
1 GOhm x km

approx. 44 kg/km
60 mm
-25°C
+70°C
7,9 kg/km

Corrosiveness acc. to EN50267-2-3

400036

Instrument cables

1x0,38

Copper, bare
Cell PE
PVC
approx. 7,0 mm
black

55 Ohm/km
1 GOhm x km

approx. 55 kg/km
70 mm
-25°C
+70°C
29,0 kg/km

Corrosiveness acc. to EN50267-2-3

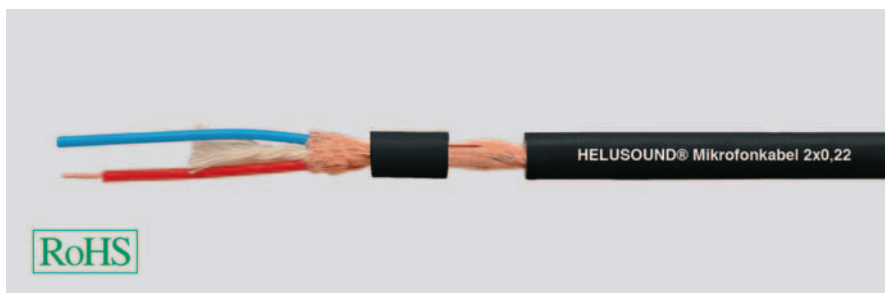
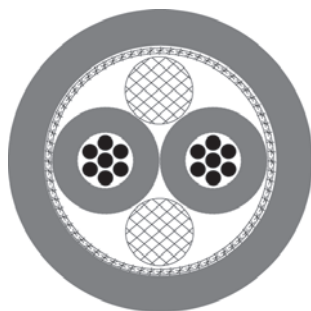
400037

Application

The HELUSOUND® instrument cable with spiral screen is a non-symmetrical, double shielded cable. This cable is specially suitable for connecting high ohmic components such as synthesisers, keyboards or guitars in professional stage and studio operation. The high-quality 1x0.38 special cable has an increased cross-section, a semi-conductor layer and a double spiral screen, which makes it suitable for the most stringent requirements of professional stages and studios.

Audio

Microphone cables with spiral screen, paired

HELUSOUND®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

Microphone cable 2x0,22

Copper, bare
PE
rd, bu
2 cores with textile filler stranded
PVC
approx. 6,0 mm
black

Microphone cable 2x0,15

Copper, bare
PVC
rd, wh
pairs stranded
PVC
approx. 4,2 mm
black

Electrical data

Conductor resistance, max.:
Insulation resistance, min.:

86 Ohm/km
1 GOhm x km

120 Ohm/km
1 GOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 55 kg/km
60 mm
-25°C
+70°C
12,1 kg/km

approx. 27 kg/km
42 mm
-25°C
+70°C
14,0 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Corrosiveness acc. to EN50267-2-3

Part no.

400038

400039

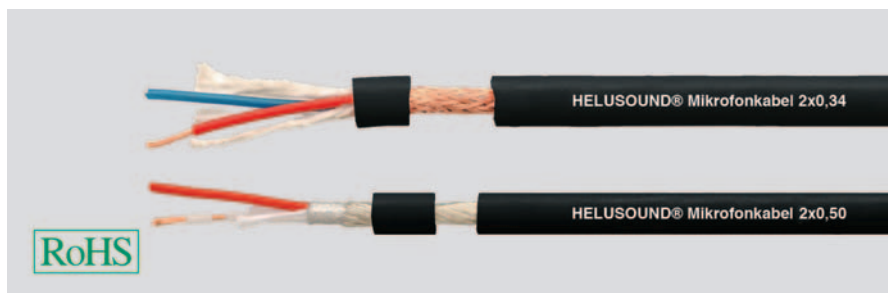
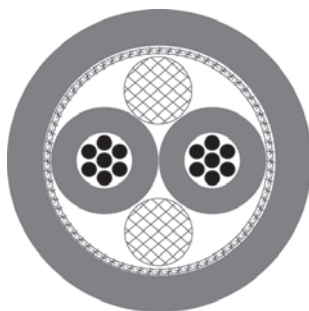
Dimensions and specifications may be changed without prior notice.

Application

The 2-core HELUSOUND® microphone cable with spiral screen is suitable for use in professional stage and studio operation. The microphone cable 2x0,15 has a double spiral screen made of bare copper wires.

Audio

Microphone cables with braided shielding

HELUSOUND®


Type

Cable structure

Conductor material:

Core insulation:

Core colours:

Stranding element:

Sheath material:

Cable external diameter:

Sheath colour:

Microphone cable

2x0,34

Copper, bare

PE

rd, bu

2 cores with textile filler stranded

PVC

approx. 6,5 mm

black

Microphone cable

2x0,50

Copper, bare

PE

rd, wh

2 cores with textile filler stranded

PVC

approx. 6,7 mm

black

Electrical data

Conductor resistance, max.:

Insulation resistance, min.:

53 Ohm/km

1 GOhm x km

37 Ohm/km

1 GOhm x km

Technical data

Weight:

Min. bending radius for laying:

Operating temperature range min.:

Operating temperature range max.:

Copper weight:

approx. 30 kg/km

65 mm

-30°C

+70°C

15,2 kg/km

approx. 59 kg/km

67 mm

-30°C

+70°C

37,0 kg/km

Part no.

400040

400080

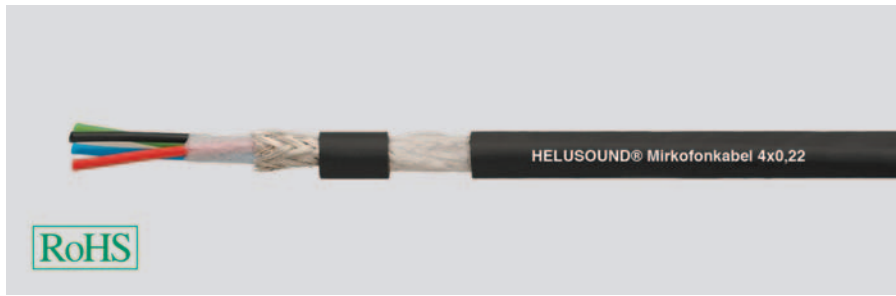
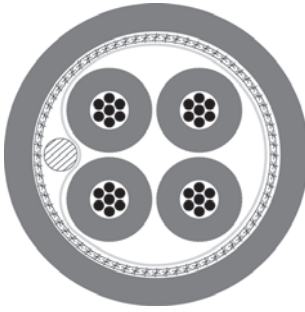
Dimensions and specifications may be changed without prior notice.

Application

The 2-wire HELUSOUND® microphone cable with copper braid shield is suitable for use in the professional stage and studio operations, as well as for fixed installation. The line is characterized by its highly flexible PVC jacket.

Audio

Microphone cables with braided shielding, star quads

HELUSOUND®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Drain wire:
Inner sheath material:
Sheath material:
Cable external diameter:
Sheath colour:

Microphone cable

4x0,22

Copper, bare
PE
rd, bu, gn, bk
Star quad
AWG 26/7, copper bare
PE
PVC
approx. 6,1 mm
black

Electrical data

Conductor resistance, max.:
Insulation resistance, min.:

86 Ohm/km
1 GOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 50 kg/km
62 mm
-25°C
+70°C
25,0 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.

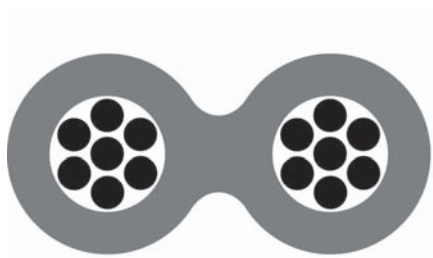
400041

Dimensions and specifications may be changed without prior notice.

Application

The 4-core HELUSOUND® microphone cable is stranded in star quads and suitable for special application due to its earth conductor and braided shielding. It is e.g. used as a stereo cable in the area of professional studio and microphone technique.
Easy stripping.

Loudspeaker Cables



Cross section (mm ²)	2 x 0,5	2 x 0,5	2 x 0,75	2 x 0,75	2 x 1,5	2 x 1,5	2 x 2,5	2 x 2,5	2 x 4	2 x 4
Part no.	40180	40023	40181	40024	40182	40025	40183	40026	40184	40027

Cable structure

Conductor material: Copper litz wire, bare

Identification: Grooves

Cond. make-up	16 x 0,20	16 x 0,20	24 x 0,20	24 x 0,20	28 x 0,25	28 x 0,25	48 x 0,25	48 x 0,25	55 x 0,30	55 x 0,30
Insulation h x w mm	2,0 x 5,0	2,1 x 4,7	2,2 x 4,9	2,2 x 4,9	2,6 x 5,5	2,6 x 5,5	3,3 x 7,0	3,3 x 7,0	4,3 x 8,2	4,3 x 8,2
Sheath material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Sheath colour	transparent	black/red	transparent	black/red	transparent	black/red	transparent	black/red	transparent	black/red
Weight approx. kg / km	15	15	20	20	37	37	63	63	80	80

Electrical characteristics

Loop resistance

max. (Ohm/km)

	70	70	47	47	23	23	14	14	9	9
Capacitance pF/m	47	47	60	60	67	67	67	67	64	64
Inductance µH/m at										
1 kHz	0,7	0,67	0,61	0,61	0,54	0,54	0,54	0,54	0,58	0,58
10 kHz	0,8	0,79	0,73	0,73	0,59	0,59	0,62	0,62	0,65	0,65
100 kHz	0,8	0,85	0,73	0,73	0,59	0,59	0,62	0,62	0,65	0,65
1000 kHz	0,8	0,8	0,67	0,67	0,52	0,52	0,56	0,56	0,59	0,59

Copper weight kg/km	9,6	9,6	14,4	14,4	28,8	28,8	48,0	48,0	76,8	76,8
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Cross section (mm ²)	2 x 1,5	2 x 2,5	2 x 4	2 x 6	2 x 10
Part no.	40185	40186	40187	40188	40189

Cable structure

Conductor material: Bare copper litz wire, highly flexible

Identification: Stripes

Cond. make-up	189 x 0,10	322 x 0,10	511 x 0,10	777 x 0,10	1273 x 0,10
Insulation h x w mm	3,1 x 6,5	3,6 x 7,5	5 x 10,2	6,1 x 12,5	7,0 x 15,0
Sheath material	PVC	PVC	PVC	PVC	PVC
Sheath colour	transparent	transparent	transparent	transparent	transparent
Weight approx. kg / km	41	60	79	136	254

Electrical characteristics

Loop resistance

max. (Ohm/km)

	23	14	9	6	3
Capacitance pF/m	67	53	50	54	59
Inductance µH/m at					
1 kHz	0,54	0,48	0,49	0,46	0,45
10 kHz	0,61	0,55	0,56	0,54	0,53
100 kHz	0,62	0,59	0,6	0,56	0,56
1000 kHz	0,55	0,54	0,56	0,53	0,52

Copper weight kg/km	28,8	48,0	76,8	115,2	192,0
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Dimensions and specifications may be changed without prior notice. (RM01)

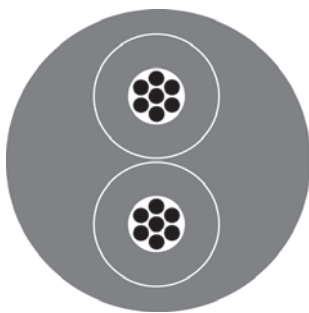
Note

The materials used in manufacture are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers.

HELUSOUND® 400 PVC

Speaker cables, round

HELUSOUND®



Type

Cable structure

Conductor material:

Core insulation:

Core colours:

Sheath material:

Cable external diameter:

Sheath colour:

Speaker cable HELUSOUND® 400

2x1,5

Copper, bare

PVC

rd, bk

PVC

approx. 6,6 mm

black

Electrical data

Conductor resistance, max.:

12,7 Ohm/km

Technical data

Weight:

approx. 73,4 kg/km

Min. bending radius for laying:

33 mm

Operating temperature range min.:

-10°C

Operating temperature range max.:

+70°C

Copper weight:

28,8 kg/km

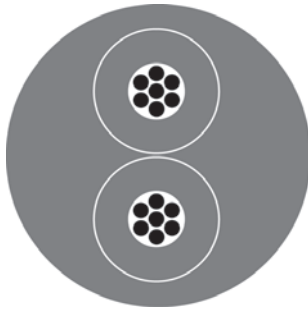
Part no.	Cable structure	Conductor resistance Ohm / km	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400089	2x1,5	< 12,7	6,6	28,8	73,4
400090	2x2,5	< 7,9	7,5	48,0	106,9
400091	2x4,0	< 4,9	9,4	76,8	163,7
400092	4x2,5	< 7,9	8,8	96,0	169,3
400093	4x4,0	< 4,9	11,6	153,6	272,4
400060	8x2,5	< 7,9	13,5	192,0	349,0
400094	8x4,0	< 4,9	16,8	307,2	541,6

Dimensions and specifications may be changed without prior notice.

Application

All products of the HELUSOUND® 400 LOUDSPEAKER series impress with their extremely high flexibility. 0,15 stranded wires and a very soft PVC outer sheath make this possible. These cables are particularly used in mobile applications on stages, in studios or in the conference industry.

HELUSOUND® 500 PUR



Type

Cable structure

Conductor material:

Core insulation:

Core colours:

Stranding element:

Sheath material:

Cable external diameter:

Sheath colour:

Speaker cable HELUSOUND® 500 PUR

2x1,5

Copper, bare

PVC

rd, bk

pairs stranded

PUR

approx. 6,6 mm

black

Electrical data

Conductor resistance, max.:

12,7 Ohm/km

Technical data

Weight:

approx. 66,9 kg/km

Min. bending radius for laying:

33 mm

Operating temperature range min.:

-25°C

Operating temperature range max.:

+80°C

Copper weight:

28,8 kg/km

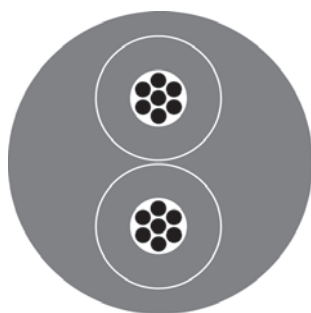
Part no.	Cable structure	Conductor resistance Ohm / km	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400109	2x1,5	< 12,7	6,6	28,8	66,9
400110	2x2,5	< 7,9	7,5	48,0	98,5
400111	2x4,0	< 4,9	9,4	76,8	150,2
400112	4x2,5	< 7,9	8,8	96,0	159,1
400113	4x4,0	< 4,9	11,6	153,6	253,0
400114	8x2,5	< 7,9	13,5	192,0	332,1
400115	8x4,0	< 4,9	16,8	307,2	499,5

Dimensions and specifications may be changed without prior notice.

Application

The robust solution for medium and high mechanical stresses, as robust, abrasion-resistant and cut resistant. Also suitable for outdoor use.

HELUSOUND® 600 FRNC, halogen-free



Type Cable structure

Conductor material:
Core insulation:
Core colours:
Stranding element:
Sheath material:
Cable external diameter:
Sheath colour:

Speaker cable HELUSOUND® 600 FRNC 2x1,5

Copper, bare
FRNC
rd, bk
pairs stranded
FRNC
approx. 6,6 mm
black

Electrical data

Conductor resistance, max.: 12,7 Ohm/km

Technical data

Weight: approx. 77 kg/km
Min. bending radius for laying: 33 mm
Operating temperature range min.: -5°C
Operating temperature range max.: +70°C
Copper weight: 28,8 kg/km

Part no.	Cable structure	Conductor resistance Ohm / km	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400116	2x1,5	< 12,7	6,6	28,8	77,0
400117	2x2,5	< 7,9	7,5	48,0	105,6
400118	2x4,0	< 4,9	9,4	76,8	166,9
400119	4x2,5	< 7,9	8,8	96,0	161,5
400120	4x4,0	< 4,9	11,6	153,6	271,6
400121	8x2,5	< 7,9	13,5	192,0	338,6
400122	8x4,0	< 4,9	16,8	307,2	531,5

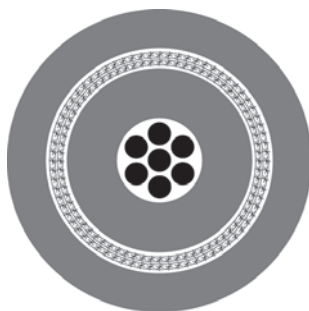
Dimensions and specifications may be changed without prior notice.

Application

The safe solution for increasing demands on the security in case of fire, as flame retardant, low smoke, halogen-free, no corrosion damage by released gases and fumes, no flame propagation provide for local flame propagation for the integrity of important systems.

Audio

Speaker cables, coaxial

HELUSOUND®


Type

Cable structure

Conductor material:
Core insulation:
Core colours:
Sheath material:
Cable external diameter:
Sheath colour:

Speaker cable

2x2,5

Copper, bare
PVC
Black
PVC
approx. 6,8 mm
black

Speaker cable

2x4,0

Copper, bare
PVC
Black
PVC
approx. 7,9 mm
black

Electrical data

Conductor resistance, max.:
Insulation resistance, min.:

7,98 Ohm/km
5 MOhm x km

4,95 Ohm/km
5 MOhm x km

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Copper weight:

approx. 84 kg/km
68 mm
-25°C
+70°C
52,0 kg/km

approx. 129 kg/km
80 mm
-25°C
+70°C
87,0 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Corrosiveness acc. to EN50267-2-3

Part no.

400061

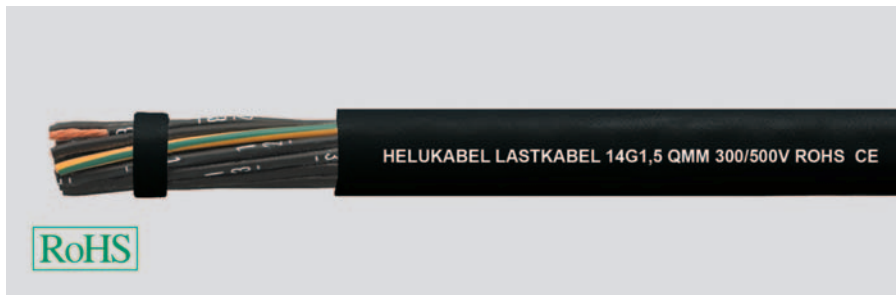
400062

Dimensions and specifications may be changed without prior notice.

Application

The coaxial HELUSOUND® speaker cable is protected by a counter-rotating double spiral shield and outer jacket. It is characterized due to the construction, in addition to robustness and good drum reeling, especially by high flexibility and small dimensions.

Loadcable 300/500 V + 600/1000 V



Type

Cable structure

Conductor material:	Copper, bare
Core insulation:	PVC flexible at low temperatures
Core colours:	black number coded + gn/ye
Stranding element:	14 cores stranded
Sheath material:	PVC flexible at low temperatures
Cable external diameter:	approx. 13,4 mm
Sheath colour:	black

Electrical data

Conductor resistance, max.:	13,3 Ohm/km
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Technical data

Weight:	approx. 322 kg/km
Min. bending radius for laying:	53,6 mm
Operating temperature range min.:	-40°C
Operating temperature range max.:	+80°C
Copper weight:	201,6 kg/km

Loadcable 300/500 V

Part no.	Cable structure	Conductor resistance Ohm / km	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400143	14 G 1,5	< 13,3	13,4	201,6	322,0
400144	18 G 1,5	< 13,3	15,2	259,2	422,0
400145	14 G 2,5	< 7,98	16,6	336,0	487,0
400146	18 G 2,5	< 7,98	19,0	432,0	634,0

Loadcable 0,6/1 kV

Part no.	Cable structure	Conductor resistance Ohm / km	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400147	14 G 1,5	< 13,3	17,7	201,6	430,0
400148	18 G 1,5	< 13,3	20,2	259,2	560,0
400149	14 G 2,5	< 7,98	20,0	336,0	604,0
400150	18 G 2,5	< 7,98	22,6	432,0	778,0

Dimensions and specifications may be changed without prior notice.

Application

The highly flexible load cables are applied at medium mechanical stress in the professional stage and lighting technology, and other load circuits. The flexibility is achieved through the building with extra fine 0,15 mm² strands and the core and sheath insulation from cold-flexible PVC.

Video Cables



used as	Indoors	Indoors, underground	Indoors	Indoors	Indoors, underground	Indoors	Indoors	Indoors	Indoors, outdoors
Type	0,6/2,8	1,0/6,6	1,0/6,6 2YD	1,0/6,6	1,0/6,6D	0,6L/3,7	0,6/3,7	1,0/6,6D	0,6L/3,7+2x0,75
Part no.	40022	40056	40175	40173	40073	40170	40171	40174	40028
Cable structure									
Inner conductor diameter mm	0,6	1	1	1	1	0,2	0,6	1	0,6
Insulation Ø mm	2,8 Cell PE	6,4 PE	6,4 PE	6,4 PE	6,4 PE	3,7 PE	3,7 PE	6,4 PE	3,7 PE
1st Outer conductor	Polyester foil coated with aluminium on both sides	Bare copper braid	Bare copper braid	Bare copper braid	Bare copper braid	Bare copper braid	Bare copper braid	Bare copper braid	Bare copper braid
Ø approx. mm	-	7	7	7	7	4,2	4,3	7	-
Inner sheath/Foil	-	-	PE	-	Foil	-	-	Foil	-
Ø approx. mm	-	-	8,5	-	-	-	-	-	-
2nd Outer conductor	Tinned copper braid	no	Bare copper braid	no	Bare copper braid	no	no	Bare copper braid	-
Ø approx. mm	-	-	9,1	-	7,6	-	-	7,6	-
Outer sheath	FRNC	PE	PVC	PVC	PE	PVC	PVC	PVC	PVC
Sheath colour	green	black	green	green	black	green	green	green	black
Outer Ø approx. mm	4,3	8,8	11,0	8,8	9,0	6,1	6,1	9,0	11,8
Min. bending radius approx. mm	25	45	55	45	50	30	30	50	50
Weight approx. kg / km	24	93	151	95	125	48	48	128	85
Electrical characteristics									
Impedance (Ohm)	75 ± 2	75 ± 1	75 ± 1	75 ± 1	75 ± 1	75 ± 1	75 ± 1	75 ± 1	75 ± 3
Attenuation at 20°C (db/100m)									
1 MHz	0,9	0,6	0,6	0,6	0,6	1,2	1,1	0,6	1,1
5 MHz	2,2	1,3	1,4	1,3	1,4	2,6	2,5	1,4	2,5
7 MHz	2,6	-	-	-	-	-	-	-	-
10 MHz	3,2	2	2	2	2	3,6	3,5	2	3,5
50 MHz	7,5	-	-	-	-	-	-	-	-
100 MHz	10,2	-	-	-	-	-	-	-	-
Propagation velocity v/c	0,8	0,66	0,66	0,66	0,66	0,66	0,66	0,66	0
DC resistance at 20°C									
Inner conductor max.Ohm/km	63	22	24	22	24	83	63	24	63
Outer conductor max.Ohm/km	21	7,5	6,5	7,5	3,5	12,5	13	3,5	13
CapacitancepF/m	54	67	67	67	67	67	67	67	67
Test voltage (50 Hz, kVeff.)	3,5	7	7	7	7	4,2	4,2	7	4
Working voltage at (kV)									
Pulse operation	-	6	6	6	6	3,6	3,6	6	-
HF-operation (peak value)	-	3	3	3	3	1,8	1,8	3	-
DC operation	-	14	14	14	14	8	8	14	-
Screening efficiency (dB)									
50 and 900 MHz≥	90	-	-	-	-	-	-	-	-
Copper weight kg/km	11,0	32,0	78,0	32,0	78,0	22,0	22,0	78,0	38,0

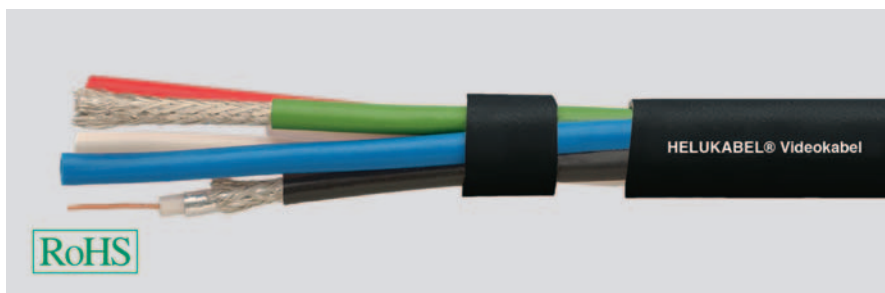
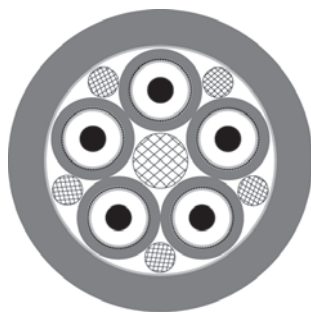
Dimensions and specifications may be changed without prior notice. (RM01)

Note

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers.
- ALPR**=Polyesterfoil coated with Aluminium on both sides
bl=Bare, **bk**=Black, **Cu**=Copper, **D**=2xbraiding, **FRNC**=Flame Retardant Non-Corrosive, **G**=Braid, **gn**=Green, **PE**=Polyethylene, **PEE**=Cell-PE, **PVC**=Polyvinylchloride

Video

Video cables, multicore



Type

Cable structure

Conductor material:

Core insulation:

Sheath material:

Cable external diameter:

Sheath colour:

Video Cables

3x(0,6/2,8)

Copper, bare

Cell PE

PVC

approx. 12,9 mm

black

Electrical data

Characteristic impedance:

Inner conductor resistance, max.:

75 Ohm

65 Ohm/km

Technical data

Weight:

Min. bending radius for laying:

Operating temperature range min.:

Operating temperature range max.:

Copper weight:

approx. 178 kg/km

130 mm

-25°C

+70°C

49,0 kg/km

Norms

Corrosiveness acc. to EN50267-2-3

Part no.	Cable structure	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400068	3x(0,6/2,8)	12,9	49,0	178,0
400069	4x(0,6/2,8)	14,1	65,0	214,0
400070	5x(0,6/2,8)	15,3	81,0	259,0
400071	6x(0,6/2,8)	16,7	97,0	295,0
400072	7x(0,6/2,8)	16,7	113,0	310,0

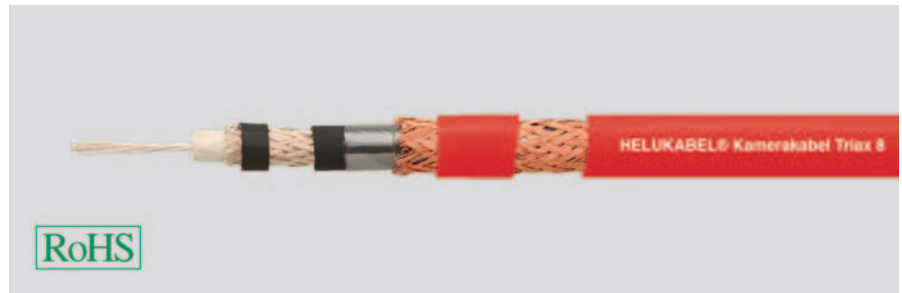
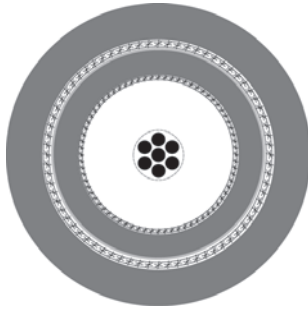
Dimensions and specifications may be changed without prior notice.

Application

The multi-core, coaxial HELUKABEL® video cable is distinguished by 75 Ohm, cell PE insulation, AL foil and braided shielding, PVC element sheath and outer sheath. Alternative we also offer a halogen-free and flame-resistant version. As example it is suitable for the parallel transmission of signals (e.g. RGB).

Video

Camera cables



Type

Cable structure

Conductor material:

Core insulation:

Sheath material:

Cable external diameter:

Sheath colour:

Camera Cables

Triax 8

Copper, silvered

PE

PUR

approx. 8,5 mm

red

Electrical data

Characteristic impedance:

75 Ohm

Technical data

Weight:

Min. bending radius for laying:

Operating temperature range min.:

Operating temperature range max.:

Copper weight:

approx. 95 kg/km

80 mm

-30°C

+80°C

55,0 kg/km

Part no.	Cable structure	Conductor insulation mm	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400073	Triax 8	4,5	8,5	55,0	95,0
400074	Triax 11	6,5	11,0	80,0	150,0
400075	Triax 14	9,7	14,4	128,0	235,0
400076	Triax 8 flex	4,5	8,5	55,0	105,0
400077	Triax 11 flex	6,1	11,2	80,0	160,0
400078	Triax 14 flex	9,7	14,4	133,0	250,0

Dimensions and specifications may be changed without prior notice.

Application

The HELUKABEL® Triax cable ensures the optimal transmission of image signals. This is possible because of the low attenuation values, thick cross-braided shielding and an especially rugged outer sheath. For the Flex variant, the PVC inner and outer sheath are replaced by TPE to guarantee greater flexibility. The Triax cables are primarily used to connect video cameras and image transmission systems and are suitable for mobile use.