Media Technology

HELUKABEL Products are available from MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA web: http://mdmetric.com
ph: (410)358-3130 (800)638-1830 fx: (410)358-3142 (800)872-9329 email: sales@mdmetric.com RFQ form: http://mdmetric.com/rfq.htm
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Photo: HELUKABEL®

Media Technology

The product range for media equipment encompasses cables for both indoor and outdoor use. It guarantees high transmission quality for fixed installations or for mobile use. The diverse range of products in detail comprises HELUSOUND® audio cables for analogue and digital transmission, HELULIGHT® for the DMX light controller, video cables, Triax camera cables and special cables as per your requirements.

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Audio

Audio cables with braided shielding

Type
HELUSOUND audio cable analog
Cable structure
2x0,25 + 0,25

Conductor material:	Copper, bare
Core insulation:	PVC
Core colours:	rd, wh
Stranding element:	2 cores with 1 filler and 1 earth conductor stranded
Drain wire:	yes
Sheath material:	PVC
Cable external diameter:	approx. 3,4 mm
Sheath colour:	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

Halogen-free acc. to EN 50267-2-3

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.

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Audio

Audio cables, multicore, with braided shielding

Type **HELUSOUND audio cable analog**

Cable structure 2x0,26

Conductor material:	Copper, bare
Core insulation:	PE
Stranding element:	pairs stranded
Sheath material:	PVC
Cable external diameter:	approx. 5,2 mm
Sheath colour:	black

Electrical data

Conductor resistance, max.:	73,9 Ohm/km
Insulation resistance, min.:	1 GOhm x km

Technical data

Weight:	approx. 37 kg/km
Min. bending radius for laying:	52 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+70°C
Copper weight:	16,8 kg/km

Norms

Halogen-free acc. to EN 50267-2-3

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.

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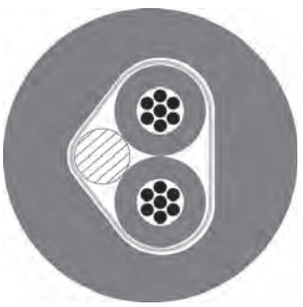
Audio

Audio cables with foil shielding, single pair



Type	**Analog audio cables**
Cable structure	**2x0,22**
Conductor material:	Copper, tinned
Core insulation:	PE
Core colours:	rd, bu
Stranding element:	pairs stranded
Sheath material:	PVC
Cable external diameter:	approx. 3,4 mm
Sheath colour:	black

Electrical data

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

Technical data

Weight:	approx. 17 kg/km
Min. bending radius for laying:	35 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+70°C
Copper weight:	6,6 kg/km

Norms Halogen-free acc. to EN 50267-2-3

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.

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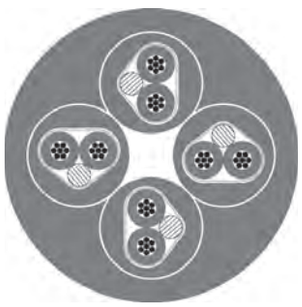
Audio

Audio cables, multipaired, pairs with foil shielding



Type **Analog audio cables**

Cable structure 2x2x0,22

Conductor material:	Copper, bare
Core insulation:	PE
Core colours:	rd, bu
Stranding element:	pairs stranded
Drain wire:	yes
Sheath material:	PVC
Cable external diameter:	approx. 7,6 mm
Sheath colour:	black

Electrical data

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

Technical data

Weight:	approx. 72 kg/km
Min. bending radius for laying:	76 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+70°C
Copper weight:	13,2 kg/km

Norms

Halogen-free acc. to EN 50267-2-3

Part no.	Cable structure	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400012	2x2x0,22	7,6	13,2	72,0
400013	4x2x0,22	9,2	26,0	100,0
400014	8x2x0,22	12,2	53,0	179,0
400015	12x2x0,22	14,2	79,0	248,0
400016	16x2x0,22	16,4	106,0	337,0
400017	20x2x0,22	18,4	132,0	421,0
400018	24x2x0,22	20,4	158,0	493,0
400019	32x2x0,22	22,4	211,0	620,0
400020	40x2x0,22	24,6	264,0	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.

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Audio

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

Type	Analog audio cables 12x2x0,14	Analog audio cables 16x2x0,14
Cable structure		
Conductor material:	Copper, tinned	Copper, tinned
Core insulation:	TPE	TPE
Stranding element:	pairs stranded	pairs stranded
Sheath material:	PUR	PUR
Cable external diameter:	approx. 12,7 mm	approx. 14,1 mm
Sheath colour:	black	black
Electrical data		
Conductor resistance, max.:	150 Ohm/km	150 Ohm/km
Insulation resistance, min.:	100 MOhm x km	100 MOhm x km
Technical data		
Weight:	approx. 190 kg/km	approx. 247 kg/km
Min. bending radius for laying:	127 mm	142 mm
Operating temperature range min.:	-25°C	-25°C
Operating temperature range max.:	+70°C	+70°C
Copper weight:	118,0 kg/km	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.

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How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Audio

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

Type	**Digital audio cables**
Cable structure	**2x0,22**
Conductor material:	Copper, bare
Core insulation:	PE
Core colours:	rd, bu
Stranding element:	2 cores with 1 earth conductor
Drain wire:	yes
Sheath material:	PVC
Cable external diameter:	approx. 5,0 mm
Sheath colour:	black

Electrical data

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

Technical data

Weight:	approx. 35 kg/km
Min. bending radius for laying:	50 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+70°C
Copper weight:	14,7 kg/km

Norms

Halogen-free acc. to EN 50267-2-3

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 the transmission of digital 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.

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How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Audio

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

Type	**Digital audio cables**
Cable structure	**2x0,22**
Conductor material:	Copper, tinned
Core insulation:	Cell PE
Core colours:	rd, bu
Stranding element:	2 cores with 1 earth conductor
Sheath material:	PVC
Cable external diameter:	approx. 6,0 mm
Sheath colour:	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:	15,7 kg/km

Norms

Halogen-free acc. to EN 50267-2-3

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	15,7	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.

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Audio

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

Type	**Digital audio cables**
Cable structure	**2x2x0,22**
Conductor material:	Copper, tinned
Core insulation:	Cell PE
Core colours:	rd, bu
Stranding element:	2 cores with 1 earth conductor
Drain wire:	yes
Sheath material:	PVC
Cable external diameter:	approx. 9,9 mm
Sheath colour:	black

Electrical data

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

Technical data

Weight:	approx. 85 kg/km
Min. bending radius for laying:	100 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+70°C
Copper weight:	15,4 kg/km

Norms

Halogen-free acc. to EN 50267-2-3

Part no.	Cable structure	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400025	2x2x0,22	9,9	15,4	85,0
400026	4x2x0,22	11,8	29,0	119,0
400027	6x2x0,22	14,9	42,0	195,0
400028	8x2x0,22	16,1	55,0	232,0
400029	12x2x0,22	19,1	81,0	330,0

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.

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Audio

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

Type	**Digital audio cables**
Cable structure	**12x2x0,22**
Conductor material:	Copper, bare
Core insulation:	Cell PE
Core colours:	rd, bu
Stranding element:	2 cores with 1 earth conductor
Sheath material:	PVC
Cable external diameter:	approx. 17,0 mm
Sheath colour:	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

Halogen-free acc. to EN 50267-2-3

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.

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Audio & Light

AES/EBU & DMX patch cable

Type	**DMX cables**
Cable structure	**2x0,22**
Conductor material:	Copper, tinned
Core insulation:	Cell PE
Core colours:	rd, bu
Stranding element:	2 cores with textile filler stranded
Drain wire:	yes
Sheath material:	PVC
Cable external diameter:	approx. 5,0 mm
Sheath colour:	blue

Electrical data

Characteristic impedance:	110 Ohm
Conductor resistance, max.:	80 Ohm/km
Insulation resistance, min.:	5 GOhm x km

Technical data

Weight:	approx. 33 kg/km
Min. bending radius for laying:	50 mm
Operating temperature range min.:	-30°C
Operating temperature range max.:	+70°C
Copper weight:	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.

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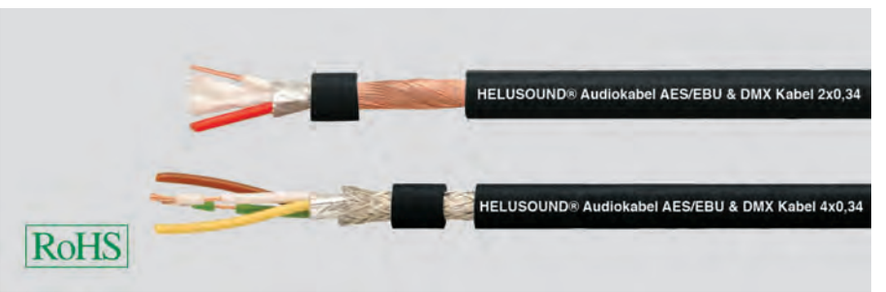
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Audio & Light

AES/EBU & DMX cables



Type	DMX cables	DMX cables
Cable structure	**2x0,34**	**4x0,34**
Conductor material:	Copper, bare	Copper, bare
Core insulation:	Cell PE	PE
Core colours:	rd, wh	wh,gn,bn,ye
Stranding element:	2 cores with textile filler stranded	Star quad
Sheath material:	PVC	PVC
Cable external diameter:	approx. 6,4 mm	approx. 7,0 mm
Sheath colour:	black	black
Electrical data		
Characteristic impedance:	110 Ohm	110 Ohm
Conductor resistance, max.:	53 Ohm/km	53 Ohm/km
Insulation resistance, min.:	10 GOhm x km	5 GOhm x km
Technical data		
Weight:	approx. 50 kg/km	approx. 65 kg/km
Min. bending radius for laying:	64 mm	70 mm
Operating temperature range min.:	-30°C	-30°C
Operating temperature range max.:	+70°C	+70°C
Copper weight:	18,0 kg/km	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 interference 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.

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Audio & Light

AES/EBU TP DMX 512

Type	**DMX cables**
Cable structure	**2x2x0,22**
Conductor material:	Copper, tinned
Core insulation:	Cell PE
Core colours:	or/wh, bu/wh
Stranding element:	pairs stranded
Drain wire:	yes
Sheath material:	PVC
Cable external diameter:	approx. 8,0 mm
Sheath colour:	black

Electrical data

Characteristic impedance:	110 Ohm
Conductor resistance, max.:	85 Ohm/km
Insulation resistance, min.:	100 GOhm x km

Technical data

Weight:	approx. 76 kg/km
Min. bending radius for laying:	80 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+70°C
Copper weight:	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.

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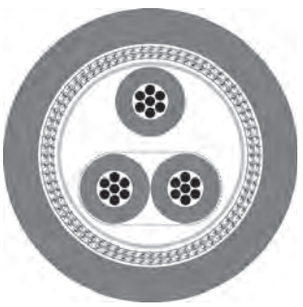
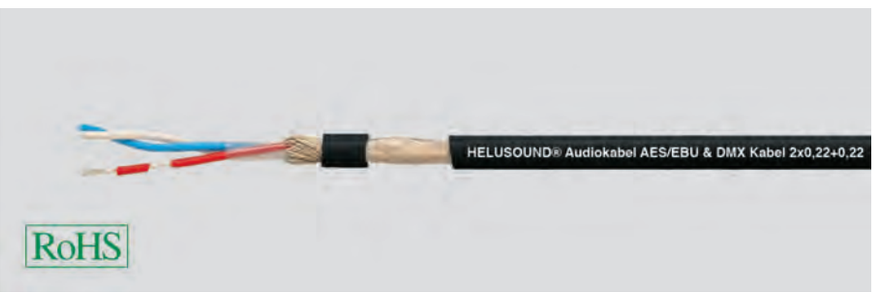
Audio & Light

DMX cables, multicore with spiral screen





Type	**DMX cables**
Cable structure	**2x0,22+0,22**
Conductor material:	Copper, tinned
Core insulation:	PE spumed
Core colours:	wh,bu+rd
Stranding element:	pair and core stranded together
Sheath material:	PVC
Cable external diameter:	approx. 6,4 mm
Sheath colour:	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

Halogen-free acc. to EN 50267-2-3

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.

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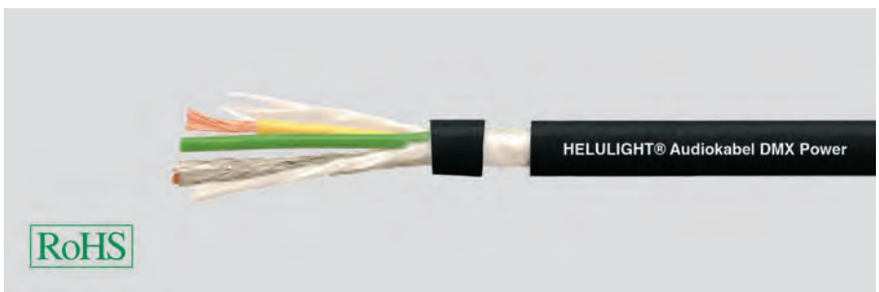
Light+Power

DMX-POWER



Type	**DMX cables**
Cable structure	**(1x2x0,24)+2x1,0**
Conductor material:	Copper, bare
Core insulation:	Foam-skin-PE
Stranding element:	Double core
Sheath material:	PVC
Cable external diameter:	approx. 7,4 mm
Sheath colour:	black

Electrical data

Characteristic impedance:	110 Ohm

Technical data

Weight:	approx. 74 kg/km
Copper weight:	35,0 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.

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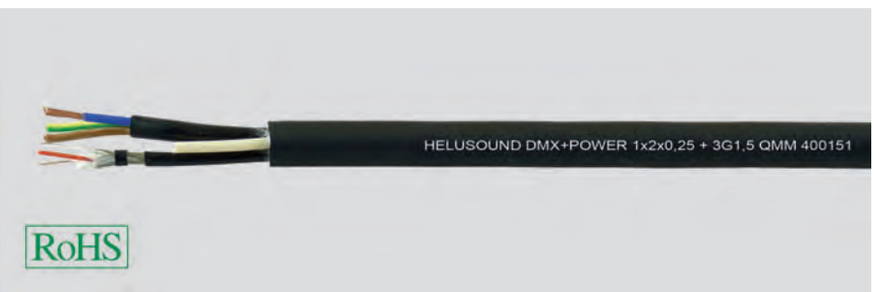
HELUKABEL Products are available from MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA web: http://mdmetric.com
ph: (410)358-3130 (800)638-1830 fx: (410)358-3142 (800)872-9329 email: sales@mdmetric.com RFQ form: http://mdmetric.com/rfq.htm
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

HELUSOUND® DMX+POWER

new



Type **DMX cables**

Cable structure

Conductor material:	Copper, bare
Core insulation:	Foam-Skin-PE (DMX), PVC (Power)
Core insulation 2:	PVC
Core colours:	red, white (DMX); brown, blue, green/yellow (Power)
Stranding element:	DMX-Element together with Power-Element and filler stranded
Sheath material:	PVC flexible at low temperatures
Cable external diameter:	approx. 13,2 mm
Sheath colour:	black

Electrical data

Characteristic impedance:	110 Ohm
Conductor resistance, max.:	53 Ohm/km
Insulation resistance, min.:	10 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.

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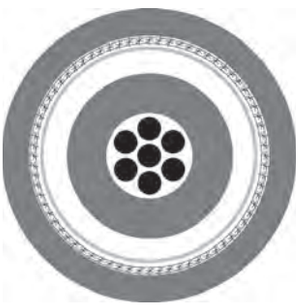
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Audio

Instrument cables with spiral screen



Type	Instrument cables	Instrument cables
Cable structure	**1x0,22**	**1x0,38**
Conductor material:	Copper, bare	Copper, bare
Core insulation:	Foam-skin-PE	Cell PE
Drain wire:	-	yes
Sheath material:	PVC	PVC
Cable external diameter:	approx. 5,9 mm	approx. 7,0 mm
Sheath colour:	black	black
Electrical data		
Conductor resistance, max.:	86 Ohm/km	55 Ohm/km
Insulation resistance, min.:	1 GOhm x km	1 GOhm x km
Technical data		
Weight:	approx. 44 kg/km	approx. 55 kg/km
Min. bending radius for laying:	60 mm	70 mm
Operating temperature range min.:	-25°C	-25°C
Operating temperature range max.:	+70°C	+70°C
Copper weight:	7,9 kg/km	29,0 kg/km
Norms	Halogen-free acc. to EN 50267-2-3	Halogen-free acc. to EN 50267-2-3
Part no.	**400036**	**400037**

Dimensions and specifications may be changed without prior notice.

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.

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How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Audio

Microphone cables with spiral screen, paired

Type Cable structure	Microphone cable 2x0,22	Microphone cable 2x0,15
Conductor material:	Copper, bare	Copper, bare
Core insulation:	PE	PVC
Core colours:	rd, bu	rd, wh
Stranding element:	pairs stranded	pairs stranded
Sheath material:	PVC	PVC
Cable external diameter:	approx. 6,0 mm	approx. 4,2 mm
Sheath colour:	black	black
Electrical data		
Conductor resistance, max.:	86 Ohm/km	120 Ohm/km
Insulation resistance, min.:	1 GOhm x km	1 GOhm x km
Technical data		
Weight:	approx. 55 kg/km	approx. 27 kg/km
Min. bending radius for laying:	60 mm	42 mm
Operating temperature range min.:	-25°C	-25°C
Operating temperature range max.:	+70°C	+70°C
Copper weight:	12,1 kg/km	14,0 kg/km
Norms	Halogen-free acc. to EN 50267-2-3	Halogen-free acc. to EN 50267-2-3
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.

HELUKABEL Products are available from MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA web: http://mdmetric.com
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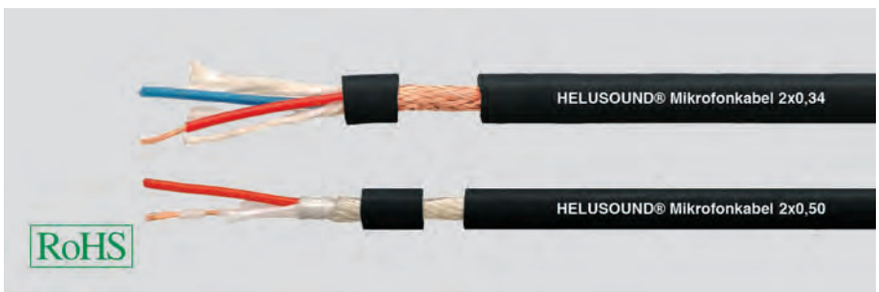
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Audio

Microphone cables with braided shielding



Type	Microphone cable 2x0,34	Microphone cable 2x0,50
Cable structure		
Conductor material:	Copper, bare	Copper, bare
Core insulation:	PE	PE
Core colours:	rd, bu	rd, wh
Stranding element:	2 cores with textile filler stranded	2 cores with textile filler stranded
Sheath material:	PVC	PVC
Cable external diameter:	approx. 6,5 mm	approx. 6,7 mm
Sheath colour:	black	black
Electrical data		
Conductor resistance, max.:	53 Ohm/km	37 Ohm/km
Insulation resistance, min.:	1 GOhm x km	1 GOhm x km
Technical data		
Weight:	approx. 30 kg/km	approx. 59 kg/km
Min. bending radius for laying:	65 mm	67 mm
Operating temperature range min.:	-30°C	-30°C
Operating temperature range max.:	+70°C	+70°C
Copper weight:	15,2 kg/km	37,0 kg/km
Part no.	**400040**	**400080**

Dimensions and specifications may be changed without prior notice.

Application

The 2-core HELUSOUND® microphone cable with copper braided shield is suitable for use in professional stage and studio operation and for permanent installation. The cable is distinguished by its very flexible PVC sheath.

S

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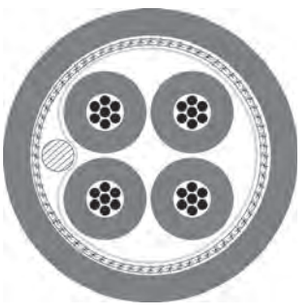
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Audio

Microphone cables with braided shielding, star quads



Type	**Microphone cable**
Cable structure	**4x0,22**
Conductor material:	Copper, bare
Core insulation:	PE
Core colours:	rd,bu,gn,bk
Stranding element:	Star quad
Drain wire:	AWG 26/7, Kupfer verzinnt
Inner sheath material:	PE
Sheath material:	PVC
Cable external diameter:	approx. 6,1 mm
Sheath colour:	black

Electrical data

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

Technical data

Weight:	approx. 50 kg/km
Min. bending radius for laying:	62 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+70°C
Copper weight:	25,0 kg/km

Norms

Halogen-free acc. to EN 50267-2-3

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. Among other things, it is used as a stereo cable in the area of professional studio and microphone technology.

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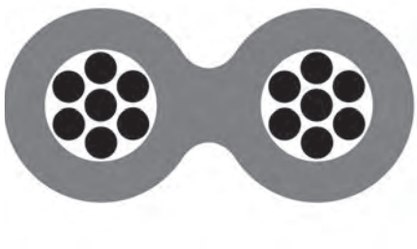
ph: (410)358-3130 (800)638-1830 fx: (410)358-3142 (800)872-9329 email: sales@mdmetric.com RFQ form: http://mdmetric.com/rfq.htm
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Loudspeaker Cables



Cross section (mm²)	**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	2,1 x 4,7	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
Jacket material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Jacket 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	0,67	0,67	0,61	0,61	0,54	0,54	0,54	0,54	0,58	0,58
10 kHz	0,79	0,79	0,73	0,73	0,59	0,59	0,62	0,62	0,65	0,65
100 kHz	0,85	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

Cross section (mm²)	**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
Jacket material	PVC	PVC	PVC	PVC	PVC
Jacket 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

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.

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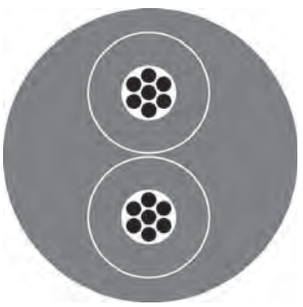
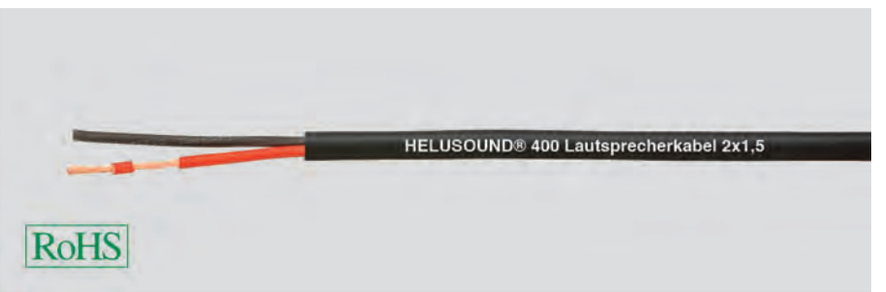
ph: (410)358-3130 (800)638-1830 fx: (410)358-3142 (800)872-9329 email: sales@mdmetric.com RFQ form: http://mdmetric.com/rfq.htm
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

HELUSOUND® 400 PVC

Speaker cables, round





Type
Cable structure

Speaker cable HELUSOUND® 400
2x1,5

Conductor material:	Copper, bare
Core insulation:	PVC
Core colours:	rd, bk
Sheath material:	PVC
Cable external diameter:	approx. 6,6 mm
Sheath colour:	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 strands and a very soft PVC outer sheath make this possible. These cables are particularly used in mobile applications, in studios and in conference technology.

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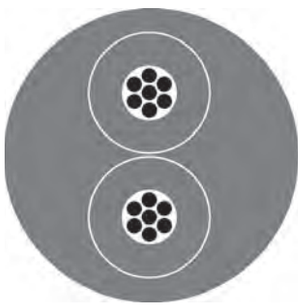
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Audio

Speaker cable, round



Type	**Speaker cable**
Cable structure	**2x1,5**
Conductor material:	Copper, bare
Core insulation:	PVC
Core colours:	rd, bu
Stranding element:	pairs stranded
Sheath material:	PVC
Cable external diameter:	approx. 7,0 mm
Sheath colour:	Black

Electrical data

Conductor resistance, max.:	13,3 Ohm/km
Insulation resistance, min.:	5 MOhm x km

Technical data

Weight:	approx. 74 kg/km
Min. bending radius for laying:	70 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+70°C
Copper weight:	30,0 kg/km

Norms

Halogen-free acc. to EN 50267-2-3

Part no.	Cable structure	Conductor resistance Ohm / km	Outer diameter approx. mm	Cop. weight kg / km	Weight approx. kg / km
400056	2x1,5	< 13,3	7,0	30,0	74,0
400057	2x2,5	< 7,98	7,6	50,0	97,0
400058	2x4,0	< 4,95	11,0	80,0	187,0
400059	4x2,5	< 7,98	10,0	100,0	176,0

Dimensions and specifications may be changed without prior notice.

Application

The HELUSOUND® loudspeaker cable suits for outdoor application as well as fixed installation. Due to its robustness and reeling characteristic, it is in use in all kind of acoustic irradiation systems, also in stage and building control systems.

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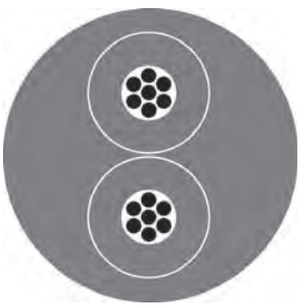
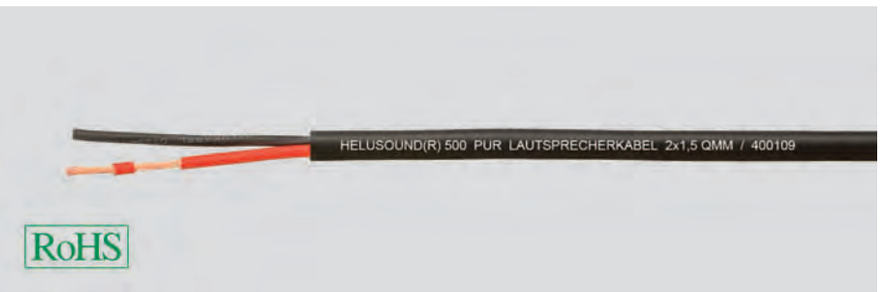
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

HELUSOUND® 500 PUR

new





Type **Speaker cable HELUSOUND® 500 PUR**

Cable structure **2x1,5**

Conductor material:	Copper, bare
Core insulation:	PVC
Core colours:	rd, bk
Stranding element:	Double core
Sheath material:	PUR
Cable external diameter:	approx. 6,6 mm
Sheath colour:	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

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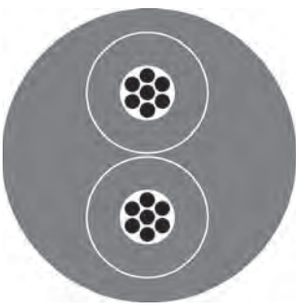
HELUSOUND® 600 FRNC, halogen-free



new

Type **Speaker cable HELUSOUND® 600 FRNC**

Cable structure **2x1,5**

Conductor material:	Copper, bare
Core insulation:	FRNC
Core colours:	rd, bk
Stranding element:	Double core
Sheath material:	FRNC
Cable external diameter:	approx. 6,6 mm
Sheath colour:	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.

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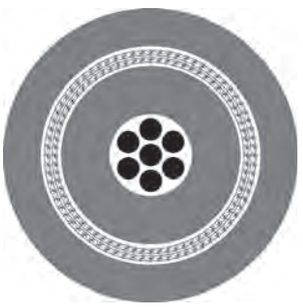
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

Audio

Speaker cables, coaxial



Type	Speaker cable	Speaker cable
Cable structure	**1x2,5**	**1x4,0**
Conductor material:	Copper, bare	Copper, bare
Core insulation:	PVC	PVC
Core colours:	Black	Black
Sheath material:	PVC	PVC
Cable external diameter:	approx. 6,8 mm	approx. 7,9 mm
Sheath colour:	Black	Black
Electrical data		
Conductor resistance, max.:	7,98 Ohm/km	4,95 Ohm/km
Insulation resistance, min.:	5 MOhm x km	5 MOhm x km
Technical data		
Weight:	approx. 84 kg/km	approx. 129 kg/km
Min. bending radius for laying:	68 mm	80 mm
Operating temperature range min.:	-25°C	-25°C
Operating temperature range max.:	+70°C	+70°C
Copper weight:	52,0 kg/km	87,0 kg/km
Norms	Halogen-free acc. to EN 50267-2-3	Halogen-free acc. to EN 50267-2-3
Part no.	**400061**	**400062**

Dimensions and specifications may be changed without prior notice.

Application

The coaxial HELUSOUND® speaker cable is protected by dual spiral screens in opposite directions and outer sheath. As well as robustness and good winding capability its design is particularly distinguished by high flexibility and small dimensions.

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Loadcable 300/500V + 600/1000V

new

Type
Loadcable 300V/500V/0,6kV/1kV

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

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 300/500V

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 600/1000V

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 extremely flexible load cables U_0/U 300/500V and load cables U_0/U 600/1000V are used for common mechanical demands for professional stage light systems and other elecrical load circuits from 500V to 1000V. The flexibility is archieved by very fine wire stranding design with 0.15mm flexible strands. The core and sheath insulation are made of cold-flexible PVC; this is also available as a customized product.

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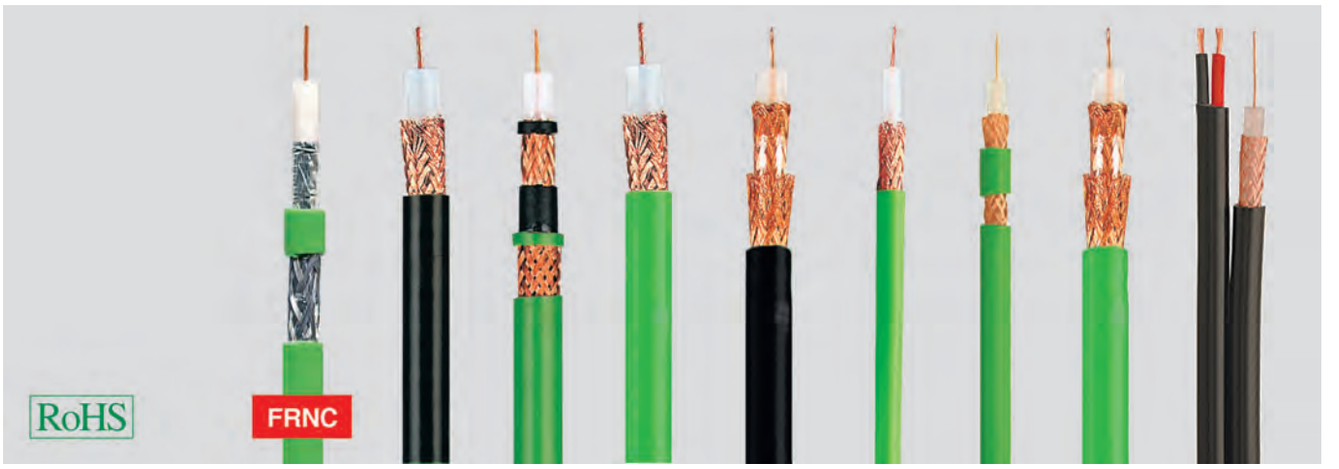
Video Cables



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 Copper, bare	1 Copper, bare	1 Copper, bare	1 Copper, bare	1 Copper, bare	0,2 Copper, bare	0,6 Copper, bare	1 Copper, bare	0,6 Copper, bare
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 steath/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 jacket	FRNC	PE	PVC	PVC	PE	PVC	PVC	PVC	PVC
Jacket 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	0
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
Capacitance pF/m	54	67	67	67	67	67	67	67	67
Test voltage (50 Hz, kV eff.)	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

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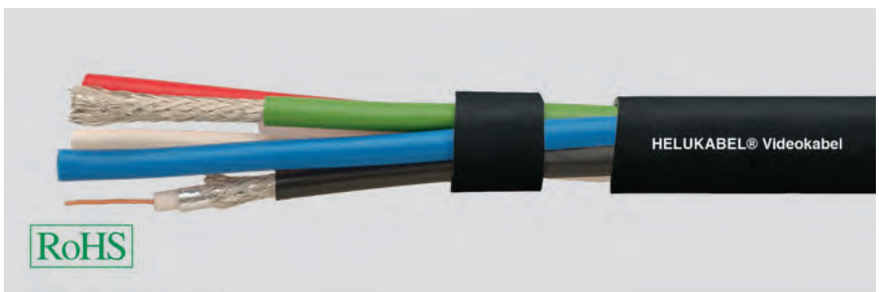
Video

Video cables, multicore



Type **Video Cables**
Cable structure **3x(0,6/2,8)**

Conductor material:	Copper, bare
Core insulation:	Cell PE
Sheath material:	PVC
Cable external diameter:	approx. 12,9 mm
Sheath colour:	Black

Electrical data

Characteristic impedance:	75 Ohm
Inner conductor resistance, max.:	65 Ohm/km

Technical data

Weight:	approx. 178 kg/km
Min. bending radius for laying:	130 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+70°C
Copper weight:	49,0 kg/km

Norms

Halogen-free acc. to EN 50267-2-3

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).

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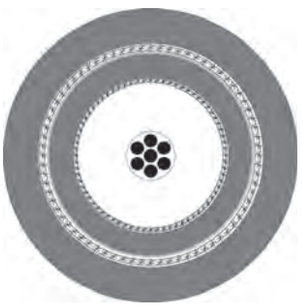
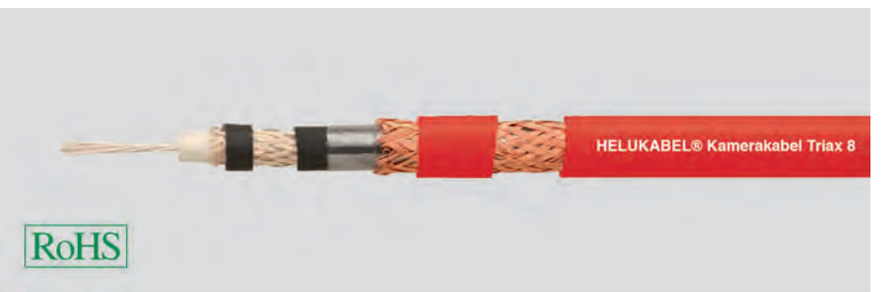
Video

Camera cables





Type
Cable structure

Camera Cables
Triax 8

Conductor material:	Copper, silvered
Core insulation:	PE
Sheath material:	PUR
Cable external diameter:	approx. 8,5 mm
Sheath colour:	Red

Electrical data

Characteristic impedance:	75 Ohm

Technical data

Weight:	approx. 95 kg/km
Min. bending radius for laying:	80 mm
Operating temperature range min.:	-30°C
Operating temperature range max.:	+80°C
Copper weight:	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.

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