Photo: HELUKABEL®

Trailing Cables

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

Trailing Cables

Trailing cables are used for high mechanical stress, especially for applications with frequent winding and unwinding with simultaneous tensile and torsional stress.

Trailing cables are frequently used in building machinery, conveyors and lifting systems, and cranes.

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

Contents

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

TROMM-PUR-H trailing, halogen-free

Technical data

- Trailing cable acc. to UL AWM Style 20235 CSA/AWM
- **Temperature range**
  flexing -40 °C to +80 °C
  fixed installation -50 °C to +80 °C
- **Nominal voltage**
  acc. to VDE 600/1000 V
  acc. to UL 1000 V
- **A.c. test voltage**, 50 Hz
  core/core 4000 V
- **Insulation resistance**
  min. 20 MOhm x km
- **Tensile strength** s. table
- **Speed of motion**
  up to 250 m/min
- **Minimum bending radius**
  approx. 6x cable ø

Cable structure

- Bare copper, extra fine wire conductor to VDE 0295 cl. 6 and IEC 60228 cl. 6
- TPE core insulation
- Core colours up to
  5 cores acc. to DIN VDE 0293,
  6 or more cores black with white numbers + gnye
- Cores stranded around support element
- Polyester fleece wrapping
- High-tensile PUR double sheath with integrated support braiding
- Sheath colour yellow

Properties

- PUR outer sheath, low adhesion, abrasion resistant, halogen-free, resistant to UV, oil, hydrolysis and microbial attack
- PUR sheath: self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Due to the PUR outer jacket, the cable is resistant against ozone and radiation, as well as oils, greases and petrol

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Application

Significantly smaller external diameters, smaller bending radii and reduced weights compared to NSHTÖU cables enable the use of smaller drive motors and drums, thus providing significant cost savings.
> Trailing cables are used for high mechanical stress, especially for applications with frequent winding and unwinding with simultaneous tensile and torsional stress, for building machinery, conveyors and lifting systems, and cranes. They are used as robust and all-weather resistant cables in the harshest operating environments in mining and in flexible handling equipment and railway motors. The cables are suitable for installation in dry, damp and wet environments, as well as outdoors.

Notes

- During installation and operation the tensile stress on the cable must not exceed 15 N/mm²
- Acceleration must not exceed 0,4 m/sec²
- 1 to 2 turns should remain on the drum during operation

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
77144	4 G 1,5	10,2	58,0	157,0
77145	5 G 1,5	10,8	72,0	176,0
77146	7 G 1,5	12,9	101,0	245,0
77147	12 G 1,5	18,4	173,0	337,0
77148	18 G 1,5	18,6	259,0	526,0
77149	24 G 1,5	21,3	345,6	662,0
77150	30 G 1,5	24,6	432,0	901,0
77151	42 G 1,5	26,5	604,8	1056,0
77152	4 G 2,5	11,7	96,0	208,0
77153	5 G 2,5	12,7	120,0	263,0
77154	7 G 2,5	14,8	168,0	327,0
77155	12 G 2,5	20,4	288,0	533,0
77156	18 G 2,5	21,1	432,0	725,0
77157	24 G 2,5	24,8	576,0	988,0
77158	30 G 2,5	27,6	720,0	1242,0
77159	40 G 2,5	30,0	960,0	1500,0
77160	50 G 2,5	34,3	1200,0	1800,0

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km
77161	4 G 4	12,5	154,0	270,0
77172	5 G 4	14,3	192,0	362,0
77162	4 G 6	16,9	230,0	409,0
77173	5 G 6	17,8	288,0	511,0
77163	4 G 10	19,6	384,0	633,0
77174	5 G 10	20,9	480,0	766,0
77164	4 G 16	23,8	614,0	936,0
77175	5 G 16	25,3	768,0	1170,0
77165	4 G 25	27,7	960,0	1485,0
77166	4 G 35	30,1	1344,0	2115,0
77167	4 G 50	35,2	1920,0	2600,0
77168	4 G 70	40,3	2688,0	3700,0
77169	4 G 95	50,6	3648,0	4800,0
77170	4 G 120	53,0	4608,0	5900,0
77171	4 G 150	56,0	5760,0	7100,0

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TROMM-PUR PUR trailing and control cable, halogen-free

Technical data

- Special PUR insulation and jacket
- Adapted to DIN VDE 0250
- Strain bearing support strand
- **Temperature range**
  -40 °C to +80 °C
  (up to +100 °C for short periods)
- **Nominal voltage**
  up to 1 mm² U_0/U 300/500 V
  as of 1,5 mm² U_0/U 450/750 V
- **Test voltage**
  up to 1 mm² = 2000 V
  as of 1,5 mm² = 2500 V
- **Breakdown voltage**
  up to 1 mm² = 4000 V
  as of 1,5 mm² = 5000 V
- **Insulation resistance**
  min. 20 MOhm x km
- **Minimum bending radius**
  approx. 10x cable ø
- **Radiation resistance**
  up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 6, col. 4, BS 6360 cl. 6 and IEC 60228 cl. 6
- Special core insulation, PUR
- Support core
- Core coding to DIN VDE 0293 (flexible cables)
- Cores stranded in layers with optimal lay-length
- Core wrapping with fleece
- Support braiding of synthetic fibres
- Halogen-free outer jacket PUR
- colour orange

Properties

- High flexibility at low temperatures
- Usable for foodstuffs
- Abrasion and tear resistant
- Loadable under torsional stress

Resistant to

- Oils and fats
- Non-alcoholic fuels and kerosene
- Atmospheric influences
- UV-radiation
- Oxygen and ozone
- Microbes and rotting
- Sea and waste water
- Vibrations

Note

- G = with green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

TROMM-PUR has taken the development of the neoprene type cables one step further. It is a robust, all-weather cable, halogen-free, tear and abrasion resistant and suitable for use in drag-chains, in ship docks, on building sites, for conveyor systems, in mining, for tunnels and roadbuilding.
For the connecting the ski lift terminal positions to the control unit, surveillance of the joining rods in ski lift cables, as feeder cables for very high currents as for example in pump engineering, mining, locomotive and rail-carriage construction, for oil rig platforms, emergency power generators etc.
CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	Breaking strain ca. kp	AWG-No.
26035	14 G 0,75	16,5	154,0	320,0	250	18
26036	12 G 1	17,5	115,0	300,0	500	17
26037	18 G 1	23,0	173,0	480,0	500	17
26038	3 G 1,5	9,5	43,0	110,0	200	16
26039	5 G 1,5	12,5	72,0	220,0	200	16
26040	7 G 1,5	15,5	101,0	270,0	250	16
26041	12 G 1,5	21,0	173,0	450,0	750	16
26042	18 G 1,5	27,0	259,0	620,0	750	16
26043	24 G 1,5	30,0	346,0	850,0	750	16
26044	30 G 1,5	34,0	533,0	1100,0	750	16
26045	42 G 1,5	40,0	605,0	1600,0	750	16
26046	4 G 2,5	14,0	96,0	250,0	200	14
26047	5 G 2,5	15,0	120,0	280,0	250	14
26048	7 G 2,5	18,0	168,0	360,0	300	14
26049	12 G 2,5	25,0	288,0	740,0	750	14
26050	24 G 2,5	36,0	576,0	1400,0	750	14
26051	30 G 2,5	40,0	864,0	1740,0	750	14
26052	36 G 2,5	44,0	998,0	2050,0	750	14
26053	7 G 4	22,0	269,0	600,0	500	12
26054	4 G 10	22,0	384,0	650,0	500	8
26055	4 G 16	27,0	614,0	1100,0	500	6
26059	5 G 16	34,0	768,0	1600,0	750	6
26056	4 G 25	30,0	960,0	1600,0	500	4
26057	4 G 35	36,0	1344,0	2050,0	1000	2
26058	4 G 50	42,0	1920,0	2800,0	1000	1

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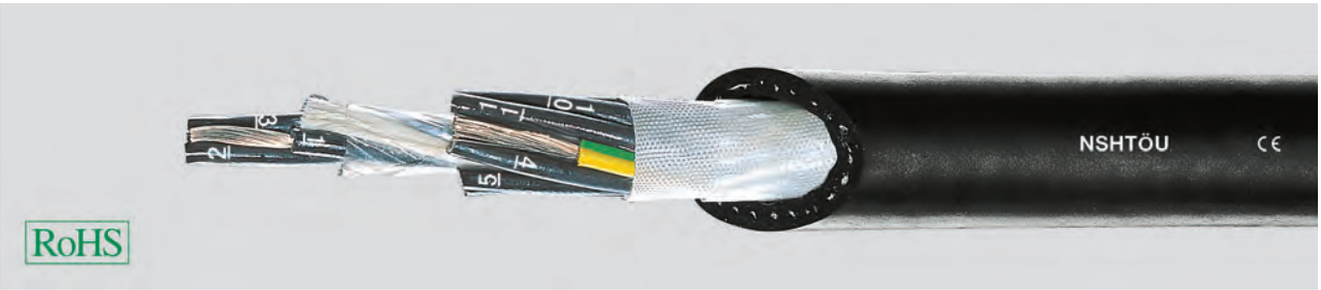
NSHTÖU drum cable, VDE approved



Technical data

- Special-crane-drum cable to DIN VDE 0250 part 814
- **Temperature range**
  flexing -35 °C to +70 °C
  fixed installation -40 °C to +70 °C
- Max. **conductor temperature**
  under load +60 °C
  circuit conditions +200 °C
- **Nominal voltage** U_0/U 0,6/1 kV
- Max. **permissiblenominal voltages**
  for three phase and one phase a.c.
  current installation U_0/U 0,7/1,2 kV
  for direct current U_0/U 0,9/1,8 kV
- **Test voltage** 2500 V
- **Insulation resistance**
  min. 10 MOhm x km
- **Minimum bending radius**
  7,5x cable ø
- **Radiation resistance**
  up to 20x10^6 cJ/kg (up to 20 Mrad)

Cable structure

- Tinned copper fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Rubber core insulation GI1 to DIN VDE 0207 part 20
- Core identification to DIN VDE 0293, 6 cores and above with numbering
- Cores stranded (without elongated central core) with max. lay-length of 8xø over the stranding layers
- Textile tape
- Textile braiding as protection against torsion, embedded in inner filling sheath
- Neoprene outer jacket, type 5GM2 to DIN VDE 0207 part 21
- Jacket colour black

Properties

- Designed and developed for horizontal drum-operation
- Permissible running speed up to 120 m/min max.
- Polychloroprene-rubber (neoprene)-jacket, extremely cold resistant
- **Behaviour in fire**
  Test according to 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- **Oil resistant**
  Test according to VDE 0472 part 803, test method A
- Due to the neoprene outer jacket, the cables **is resistant** against ozone and radiation, oils, acids, fats, gazoline, solvents and chemicals
- During the installation and operation the tensile stress on conductor may not increase 15 N/mm²
- Accelaration not more than 0,4 m/sec²
- During operation, 1-2 convolutions should remain on the operating drum
- In case of high mechanical stress, especially of high dynamic tensile stress result high accelaration, the permissible stress must be defined in each case

Note

- G = with green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

Trailing cables are used for high mechanical stress, especially for applications with frequent winding and unwinding with simultaneous tensile and torsional stress, for building machinery, conveyors, shifts and cranes.
They are used as robust and all weather resistant cables of roughest operations in mining and in flexible handling equipment and railway motors. The cables are suitable for outdoor installation in dry, damp and wet places as well in open air.
For applications which go beyond standard solutions we recommend that you fill out our especially developed questionnaire for reeling cables. Please read the installation instructions.
CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
26001	3 G 1,5	13,6	47,0	236,0	16
26029	4 G 1,5	14,0	58,0	274,0	16
26002	5 G 1,5	14,5	81,0	316,0	16
26003	7 G 1,5	18,8	115,0	440,0	16
26004	12 G 1,5	21,0	196,0	606,0	16
26005	16 G 1,5	24,5	259,0	696,0	16
26006	18 G 1,5	25,5	271,0	750,0	16
26007	24 G 1,5	27,5	390,0	1150,0	16
26008	30 G 1,5	29,5	432,0	1325,0	16
26009	3 G 2,5	15,3	74,0	305,0	14
26010	4 G 2,5	16,5	98,0	350,0	14
26011	5 G 2,5	17,5	124,0	465,0	14
26012	7 G 2,5	20,0	168,0	576,0	14
26013	12 G 2,5	23,5	308,0	850,0	14
26014	18 G 2,5	28,0	451,0	1181,0	14
26015	24 G 2,5	32,5	615,0	1550,0	14
26016	30 G 2,5	34,0	770,0	1810,0	14
26017	40 G 2,5	42,5	1080,0	3110,0	14
26018	50 G 2,5	46,5	1200,0	3200,0	14

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
26019	4 G 4	18,5	158,0	510,0	12
26030	5 G 4	21,5	220,0	635,0	12
26020	4 G 6	21,0	241,0	650,0	10
26031	5 G 6	23,5	317,0	800,0	10
26021	4 G 10	26,0	404,0	1010,0	8
26022	5 G 10	28,0	508,0	1200,0	8
26023	4 G 16	29,0	642,0	1300,0	6
26032	5 G 16	31,5	768,0	1700,0	6
26024	4 G 25	35,0	1005,0	2000,0	4
26025	4 G 35	37,5	1344,0	2610,0	2
26026	4 G 50	44,5	2010,0	3500,0	1
26027	4 G 70	49,0	2688,0	4600,0	2/0
26028	4 G 95	56,0	3648,0	6100,0	3/0

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(N)SHTÖU-V Trailing-Cable

Technical data

- Special trailing cable according to DIN VDE 0250, Part 814
- **Temperature range**
  Flexing -25 °C to +80 °C
- Max. **temperature at the conductor**
  during operation +90 °C
  on short-circuit +250 °C
- **Nominal voltage**
  U_0/U 0,6/1 kV
- Maximum permitted **operating voltages** in three-phase and one-phase alternating current installations
  U_0/U 0,7/1,2 kV
  Direct current installations
  U_0/U 0,9/1,8 kV
- **Test voltage** 4 kV
- **Insulation resistance**
  min. 10 MOhm x km
- **Minimum bending radius**
  7,5x cable ø

Cable structure

- Tinned copper conductor, fine wire stranded according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 or IEC 60228 cl. 5
- Insulating sleeve from special rubber compound 3GI3 in accordance with DIN VDE 207 Part 20
- Core identification in accordance with DIN VDE 0293 Part 308 (HD 308 S2)
- Cores stranded (without elongated central core) with max. lay-length of 8 x ø over the stranded layers)
- Depending on dimension/structure with Kevlar fillers
- Inner sheath: Special rubber, compound-type 5GM5
- Torsion protection between inner and outer sheath
- Outer sheath from special rubber compound, compound type 5GM5 according to DIN VDE 0207 Part 21
- Sheath colour - yellow

Properties

- Permitted running speed up 180 m/min
- **Fire behaviour**
  Test in accordance with 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (conforms to DIN VDE 0472 Part 804 Test method B)
- **Oil resistant**
  Test in accordance with DIN EN 60811-2-1 IEC 60811-2-1
- Highly resistant to acids, fats, gasoline, solvents and chemicals
- During installation and operation, the tensile stress must not exceed 30 N/mm²

Application

For vertical drum operation under extreme mechanical stress and on moving cable carrieres. Used as a rugged feeder to construction machines, conveyor, transport and crane systems in dry, damp, wet environments and outdoors. For applications that go beyond standard solutions we recommend you to our specially developed questionnaire for reeling cables. Please note installation instructions.
CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Power supply Cable

Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	Tensile strain max. N	AWG-No.
31040	3 G 1,5	10,9 - 13,6	45,0	191,0	130	-
31041	3 G 2,5	12,3 - 14,8	74,0	240,0	220	-
31042	3 G 4	14,9 - 17,6	115,0	362,0	360	-
31043	3 G 6	16,2 - 18,9	173,0	450,0	540	-
31044	3 G 10	19,6 - 22,6	288,0	682,0	900	-
31045	3 G 16	21,8 - 24,9	461,0	890,0	1440	-
31046	3 G 25	27,5 - 30,8	720,0	1200,0	2250	-
31047	3 x 50 + 3 G 25	36,9 - 40,6	1685,0	2810,0	4500	-
31048	3 x 70 + 3 G 35	40,4 - 44,4	2355,0	3760,0	6300	-
31049	3 x 95 + 3 G 50	46,6 - 50,8	3215,0	4700,0	8550	-
31050	3 x 120 + 3 G 70	50,8 - 55,2	4130,0	5950,0	10800	-
31051	3 x 150 + 3 G 70	55,4 - 60,0	4990,0	7050,0	13500	-
31052	3 x 185 + 3 G 95	60,8 - 65,7	6250,0	8800,0	16650	-
31053	3 x 240 + 3 G 120	68,8 - 74,0	8065,0	11700,0	21600	-
31054	4 G 1,5	11,8 - 14,5	58,0	220,0	180	-
31055	4 G 2,5	14,4 - 17,1	99,0	330,0	300	-
31056	4 G 4	16,2 - 18,8	158,0	440,0	480	-
31057	4 G 6	17,4 - 20,2	241,0	530,0	720	-
31058	4 G 10	24,4 - 21,3	404,0	835,0	1200	-
31059	4 G 16	24,7 - 27,9	642,0	1175,0	1920	-
31060	4 G 25	31,4 - 34,9	1005,0	1850,0	3000	-
31061	4 G 35	37,5 - 33,9	1344,0	2250,0	4200	-
31062	4 G 50	40,3 - 44,2	2010,0	3210,0	6000	-
31063	4 G 70	44,5 - 48,6	2687,0	4210,0	8400	-
31064	4 G 95	51,1 - 55,5	3646,0	5550,0	11400	-
31065	4 G 120	57,4 - 62,0	4605,0	7010,0	14400	-
31066	4 G 150	62,6 - 67,6	5765,0	8450,0	18000	-
31067	4 G 185	68,1 - 73,2	7110,0	10000,0	22200	-
31068	5 G 1,5	12,8 - 15,5	73,0	258,0	220	-
31069	5 G 2,5	15,5 - 18,2	124,0	389,0	370	-
31070	5 G 4	17,4 - 20,2	220,0	511,0	600	-
31071	5 G 6	19,6 - 22,7	317,0	688,0	900	-
31072	5 G 10	23,2 - 26,3	508,0	1002,0	1500	-
31073	5 G 16	26,7 - 30,2	768,0	1395,0	2400	-
31074	5 G 25	34,1 - 37,7	1005,0	2205,0	3750	-
31075	5 G 35	38,3 - 42,2	1344,0	2960,0	5250	-
31076	5 G 50	43,8 - 47,8	2010,0	3950,0	7500	-
31077	5 G 70	50,2 - 54,6	2688,0	5455,0	10500	-

Control Cable (Kevlar fillers)

Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	Tensile strain max. N	AWG-No.
31078	49 G 1	31,0 - 34,5	470,0	1420,0	3450	-
31079	7 G 1,5	14,6 - 16,9	115,0	320,0	2318	-
31080	12 G 1,5	20,6 - 23,4	196,0	620,0	2540	-
31081	18 G 1,5	20,3 - 22,9	271,0	650,0	2810	-
31082	24 G 1,5	24,2 - 27,4	390,0	930,0	3080	-
31083	30 G 1,5	27,7 - 31,1	432,0	1190,0	3350	-
31084	36 G 1,5	27,9 - 31,3	518,0	1240,0	3620	-
31085	44 G 1,5	31,2 - 34,8	634,0	1530,0	3980	-
31086	48 G 1,5	31,8 - 35,4	691,0	1610,0	4160	-
31087	56 G 1,5	35,9 - 39,7	807,0	2020,0	4520	-
31088	7 G 2,5	17,5 - 19,8	168,0	480,0	2520	-
31089	12 G 2,5	23,8 - 26,7	308,0	915,0	2900	-
31090	18 G 2,5	23,4 - 26,2	451,0	945,0	3350	-
31091	24 G 2,5	28,2 - 31,1	615,0	1330,0	3800	-
31092	30 G 2,5	31,1 - 34,4	770,0	1615,0	4250	-
31093	36 G 2,5	31,3 - 34,7	866,0	1710,0	4680	-
31094	44 G 2,5	36,2 - 40,2	1057,0	2240,0	5250	-
31095	48 G 2,5	37,2 - 41,0	1153,0	2410,0	5550	-
31096	56 G 2,5	41,6 - 46,0	1344,0	2930,0	6150	-

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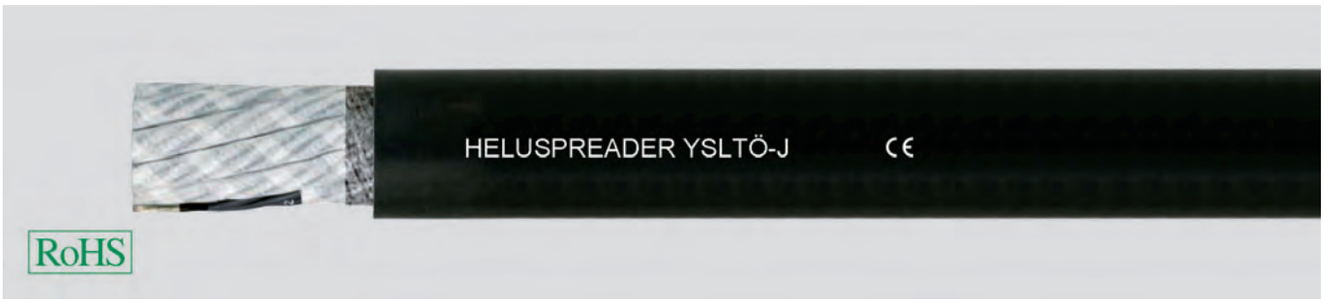
How to order: Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078

HELUSPREADER YSLTÖ-J spreader cable for vertical basket enterprise



new

G

Technical data

- Special cable line to DIN VDE 0250
- **Temperature range**
  flexing -20 °C to +60 °C
  fixed installation -20 °C to +60 °C
- Max. **operating temperature**
  at the conductor +90 °C
- max. **Short circuit temperature**
  at the conductor +150 °C
- **Nominal voltage**
  U_0/U 300/500 V
- max. **Tensile load** 2000 N
- **Minimum bending radius**
  15x cable ø
- **Current carrying capacity**
  to DIN VDE 0298 part 4

Cable structure

- Bare copper, fine or extra fine wire conductor to DIN VDE 0295 cl. 5 and 6, BS 6360 cl. 5 and 6, IEC 60228 cl. 5 and 6
- Special EPR-core insulation
- Black cores with continuous white numbering to DIN VDE 0293
- Green yellow earth-core
- Cores laid-up in lay of length, stranding with optimal length of twists around a Kevlar element
- Special polychloropren outer jacket
- Jacket colour black (RAL 9005)

Properties

- weather resistant
- UV-resistant
- high abrasion resistance

Note

- G = with green-yellow earth core.
  Delivery on request:
- also as -K model, temperature range
  -40 °C to +80 °C
- further dimensions and special designs

Application

As Spreader cable with high mechanical stresses in vertical basket operation in dry, moist, wet environment and in open air. Please note that at the installation the cable must be placed counterwise and free of twist into the basket.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	Tensile strain max. N	AWG-No.
40160	36 G 2,5	38,1 - 41,0	864,0	2500,0	2000	14
40161	42 G 2,5	40,8 - 43,8	1008,0	3000,0	2000	14
40162	48 G 2,5	45,7 - 48,7	1152,0	3650,0	2000	14
40163	54 G 2,5	47,0 - 51,0	1296,0	4100,0	2000	14

Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	Tensile strain max. N	AWG-No.
40164	36 G 3,3	42,4 - 45,5	1140,0	3200,0	2000	12
40165	42 G 3,3	46,6 - 49,6	1330,0	3750,0	2000	16
40166	48 G 3,3	52,0 - 55,0	1521,0	4450,0	2000	16
40167	54 G 3,3	56,6 - 60,0	1711,0	5000,0	2000	16

Dimensions and specifications may be changed without prior notice. (RG01)

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(N)TSCGEWÖU extremely torsionally stiff

new

Technical data

- Medium voltage power cable according to VDE 0250 part 813
- **Temperature range**
  flexing -20 °C to +60 °C
  fixed installation -20 °C to +80 °C
- **Nominal voltages**
  U_0/U 3,6/6kV, 6/10 kV, 8,7/15kV, 12/20 kV
- **Operating voltages, max**
  3,6/6 kV = 4,2/7,2 kV
  6/10 kV = 6,9/12 kV
  8,7/15 kV = 10,4/18 kV
  12/20 kV = 13,9/24 kV
- **Test voltages**
  3,6/6 kV = 11 kV
  6/10 kV = 17 kV
  8,7/15 kV = 24 kV
  12/20 kV = 29 kV
- **Minimum bending radius**
  15x outer diameter

Cable structure

- Tinned copper conductor, fine wire stranded according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Inner semi-conducting layer
- HEPR-insulation
- Outer semi-conducting layer
- Ground conductor with semi-conductive layer
- Cores concentrically stranded
- Inner jacket, jacket colour red
- Antitorsional protection
- Outer sheath: chloroprene rubber, compound 5GM3
- Jacket colour, red

Properties

- maximum permissible speed 200 m/min is allowed when operating drums in one direction
- extremly torsion resistant
- resistant against oils and fats, athmosperic exposure and UV-radiation

Note

- Further dimensions and special designs on request

Application

Reeling medium voltage supply train for use in high mechanical stresses, such as in in container cranes or large mobile equipment as well as excavators in the mining industry for days, in dry, damp, wet areas and outdoors.

3,6/6kV

Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight approx. kg / km
38533	3 x 25 + 3 x 10	37,0 - 40,0	1500	2200	1008,0	2280,0
38534	3 x 35 + 3 x 10	40,0 - 43,0	2000	3100	1292,0	2750,0
38535	3 x 50 + 3 x 10	44,0 - 47,0	3000	4300	1728,0	3400,0
38536	3 x 70 + 3 x 16	47,0 - 50,0	4100	5100	2477,0	4100,0
38537	3 x 95 + 3 x 16	52,0 - 56,0	5600	7000	3197,0	5450,0
38538	3 x 120 + 3 x 25	56,0 - 60,0	7100	8500	4176,0	6650,0

6/10kV

Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight approx. kg / km
38539	3 x 25 + 3 x 10	39,0 - 42,0	1500	2200	1008,0	2400,0
38540	3 x 35 + 3 x 10	42,0 - 45,0	2000	3100	1292,0	2900,0
38541	3 x 50 + 3 x 10	45,0 - 48,0	3000	4300	1728,0	3450,0
38542	3 x 70 + 3 x 16	50,0 - 54,0	4100	5100	2477,0	4600,0
38543	3 x 95 + 3 x 16	54,0 - 58,0	5600	7000	3197,0	5770,0
38544	3 x 120 + 3 x 25	58,0 - 62,0	7100	8500	4176,0	6900,0

8,7/15kV

Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight approx. kg / km
38545	3 x 25 + 3 x 10	43,0 - 46,0	1500	2200	1008,0	2750,0
38546	3 x 35 + 3 x 10	46,0 - 48,0	2000	3100	1292,0	3210,0
38547	3 x 50 + 3 x 10	49,0 - 52,0	3000	4300	1728,0	3950,0
39040	3 x 70 + 3 x 16	53,0 - 57,0	4100	5100	2477,0	5000,0
39041	3 x 95 + 3 x 16	58,0 - 62,0	5600	7000	3197,0	6150,0
39042	3 x 120 + 3 x 25	63,0 - 67,0	7100	8500	4176,0	7700,0

12/20kV

Part no.	No.cores x cross-sec. mm²	Outer Ø min. - max. mm	Permanent load N	Tensile strain max. N	Cop. weight kg / km	Weight approx. kg / km
39043	3 x 25 + 3 x 10	46,0 - 49,0	1500	2200	1008,0	3040,0
39044	3 x 35 + 3 x 10	49,0 - 52,0	2000	3100	1292,0	3510,0
39045	3 x 50 + 3 x 10	53,0 - 57,0	3000	4300	1728,0	4410,0
39046	3 x 70 + 3 x 16	57,0 - 61,0	4100	5100	2477,0	5420,0
39047	3 x 95 + 3 x 16	62,0 - 66,0	5600	7000	3197,0	6750,0
39048	1 x 120 + 3 x 25	67,0 - 70,0	7100	8500	4176,0	8050,0

Dimensions and specifications may be changed without prior notice. (RQ03)

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Cable Accessories

The expansion of our cable program rounds our wide product range out

Photo: Helukabel®

As a significant addition to the extensive catalogue of cables and connectors, HELUKABEL® has set up a Cable Accessories Program according to the latest guidelines and standards.

This applies to the following themes:

- Cable fixing
- Cable protective sleeving
- Drag and guidance chains
- Isolation and Heatshrink sleeving
- Termination & Connecting sleeves
- Bundling, binding and fixing
- Identification and Marking
- Terminals & cable lugs
- Tools
- Circular Connectors

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