

Cables, Wires & Accessories

CABLE SELECTION GUIDE

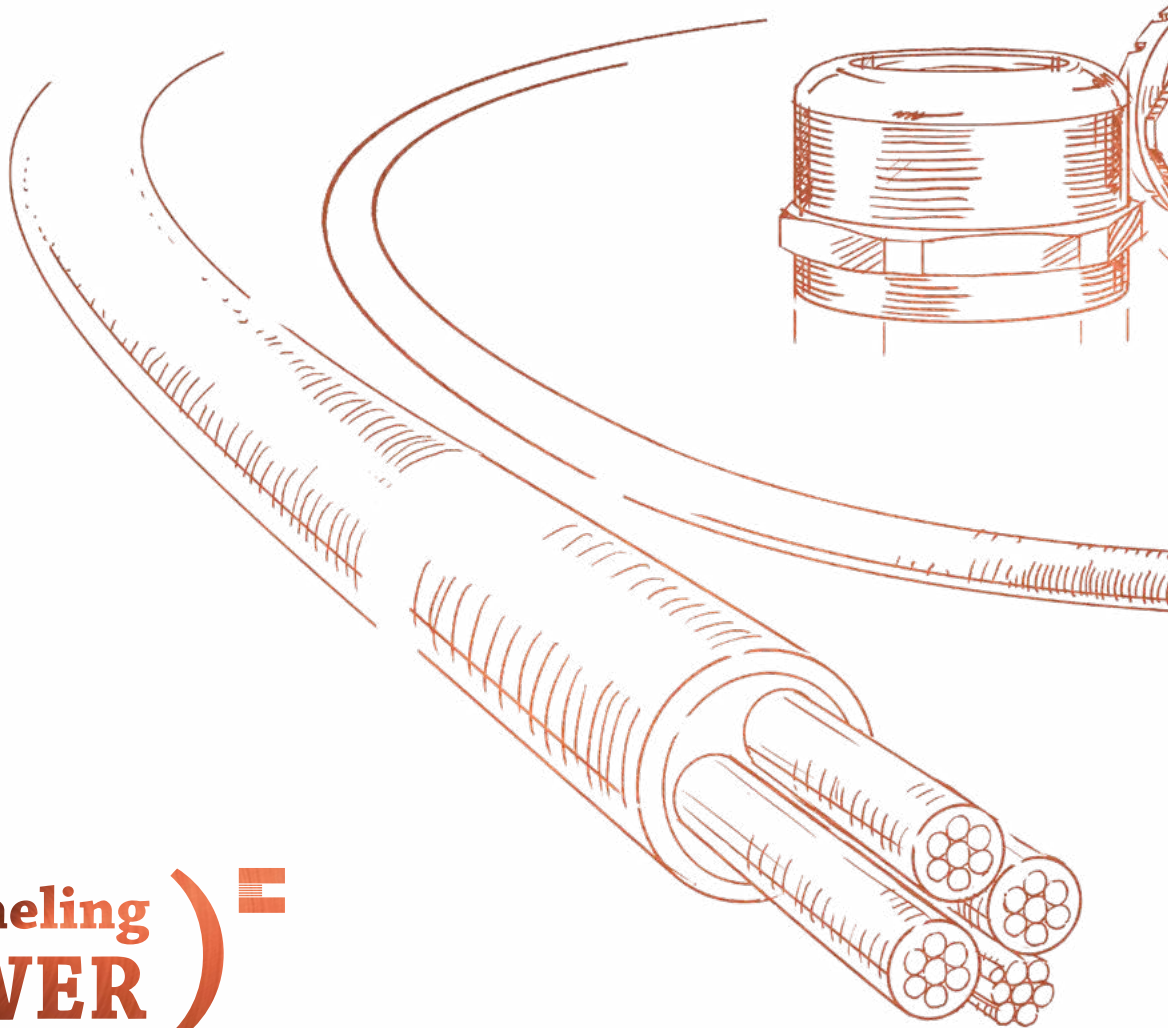
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**(Channeling
POWER)** 

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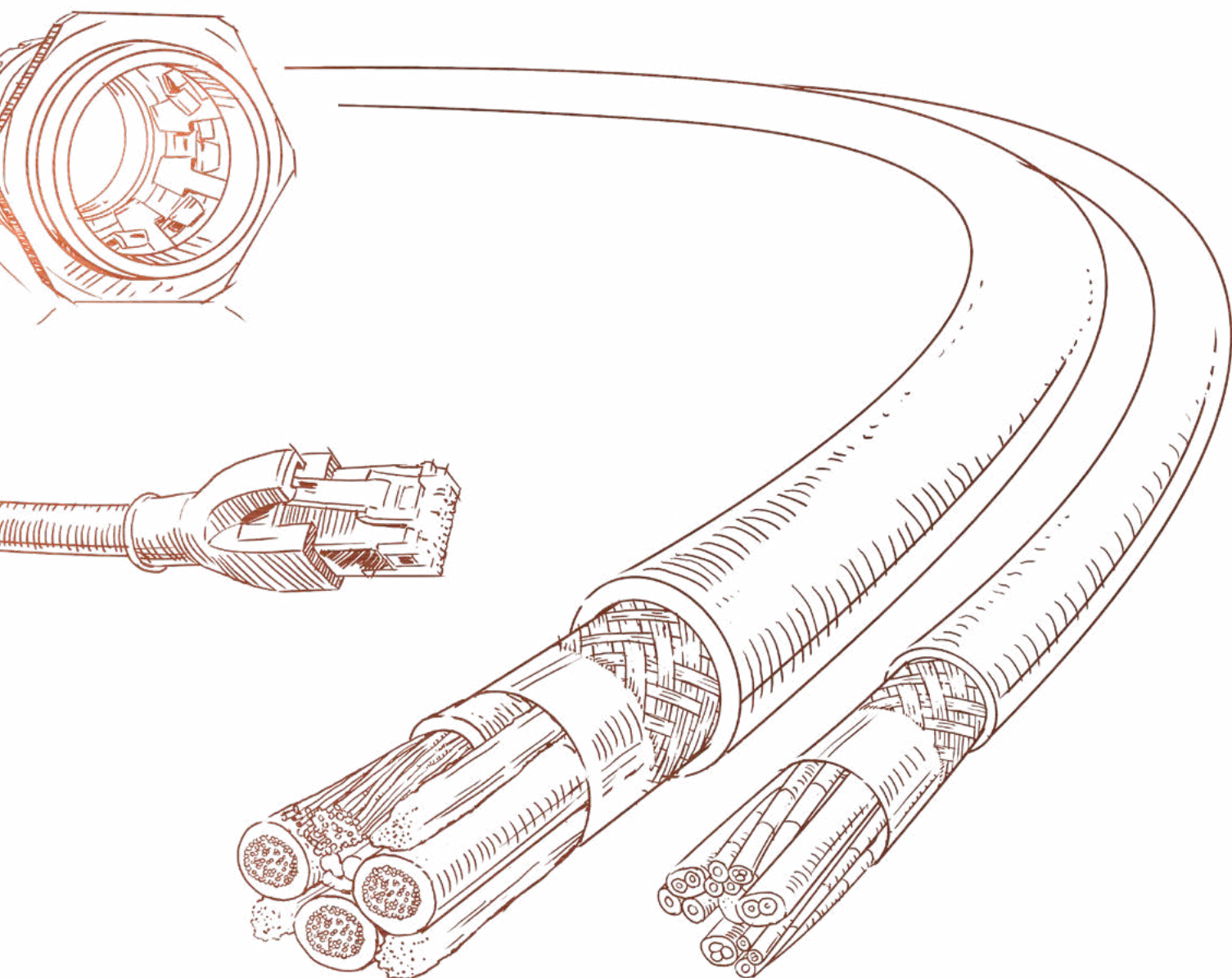
(Channeling POWER)

Cables are the vital supply lines of complex machines, plants, and systems. Whether operating under extreme mechanical stress, in the middle of the Arctic Ocean, in the scorching heat, or in the vastness of space – such conditions demonstrate what top-of-the-line cables can achieve.

We at HELUKABEL have made it our mission to bring energy and communication to our customers' destinations reliably and consistently at all times, and to make the impossible, possible!

More than 2,200 employees at 63 locations in 39 countries do their best to make this happen. We see it as our challenge to find the right cable solution for you every day, giving you the time to concentrate on more important things than cables and wires. This is where our products truly create value for you and your application.

"Channeling Power" succinctly summarizes this mission and is our commitment to customers.



Channeling (KNOW-HOW)

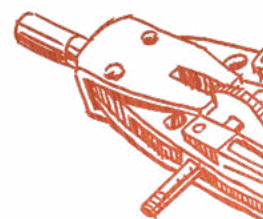
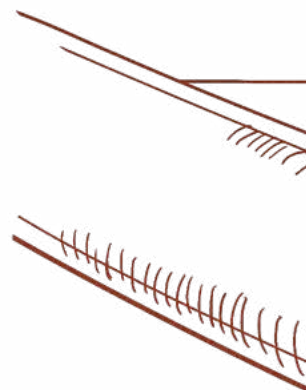


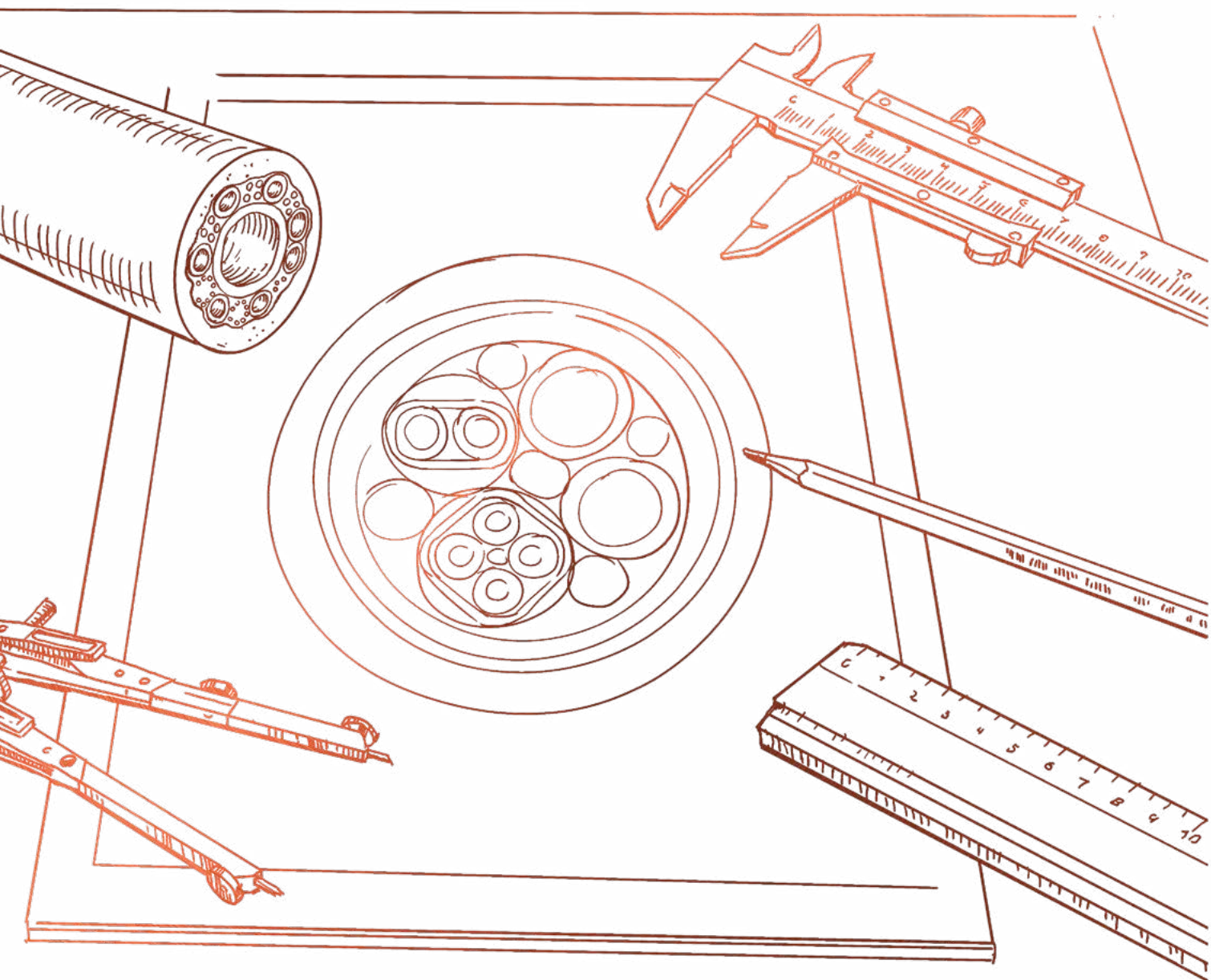
We are mighty proud of our portfolio of more than 33,000 stock items - and yet, among all these products, it still happens that a customer does not find the right solution for a specific application. Luckily, we have a strong backup plan for cases like these: HELUKABEL has in-house experienced specialists who can develop the optimum connection solution precisely tailored to your needs.

Depending on which electrical, chemical and mechanical properties your cable must fulfil in practice, we carefully determine all the parameters: from the cross section of the conductor and its structure to the insulation and arrangement of the individual elements in the cable, to the shielding and outer sheath.

Only when a special cable truly meets all requirements are our engineers fully satisfied - so that you will be too. It's with this approach that we develop reliable solutions together with our customers, even for complex and unusual situations.

In such instances, the results range from small and inconspicuous to great and spectacular: special cables from HELUKABEL can be found, for example, in aerial ladders on fire engines, in sewer robots, tunnel boring machines, on oil platforms or in wind power and biogas plants. After all, when it comes to cables, wires and accessories, there's almost nothing we can't do.





Control Cables

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC		10001	JZ-500 / OZ-500	flexible, numbered, VDE Reg.	300/500 V
		10340	JZ-500-BLACK / OZ-500-BLACK	flexible, numbered, VDE Reg.	300/500 V
		10537	JZ-500-ORANGE / OZ-500-ORANGE	flexible, numbered, VDE Reg., for warning indication	300/500 V
		11001	JB-500 / OB-500	flexible, coloured cores	300/500 V
		13122	H05VV5-F	flexible, numbered	300/500 V
		29450	H05VV-F / 05VV-F	fine stranded, colour coded	300/500 V
		14028	OZ-BL-CY	flexible, numbered, VDE Reg., intrinsically safe	300/500 V
		11161	JB-750 / OB-750	flexible, coloured cores	450/750 V
		10334	JB-750-GELB	flexible, as a warning indication	450/750 V
		10550	JZ-600 / OZ-600	flexible, numbered	0.6/1 kV
		11003798	HELUPOWER® 1000 RV-K	flexible, direct burial	0.6/1 kV
	●	16320	F-CY-JZ / F-CY-OZ / F-DY-OZ	flexible, numbered, VDE Reg.	300/500 V
		10934	JZ-500-C-BLACK / OZ-500-C-BLACK	flexible, numbered	300/500 V
		13951	H05VVC4V5-K	flexible, numbered	300/500 V
		16200	Y-CY-JZ / Y-CY-OZ	flexible, numbered	300/500 V
		16121	Y-CY-JB / Y-CY-OB	flexible, coloured cores	300/500 V
		12001	SY-JZ / SY-OZ	flexible, numbered, VDE Reg., steel mesh	300/500 V
		12200	SY-JB	flexible, coloured cores, steel mesh	300/500 V
		14077	OB-BL-PAAR-CY	flexible, numbered, intrinsically safe	900 V
		11464	JZ-600-Y-CY / OZ-600-Y-CY	flexible, numbered	0.6/1 kV
PUR		23314	JZ-500 PUR / OZ-500 PUR	numbered, abrasion resistant, robust, low adhesion	300/500 V
		22100	PURö-JZ / PURö-OZ	numbered, abrasion resistant, robust, low adhesion	300/500 V
		22001	PUR-ORANGE-JZ / PUR-ORANGE-OZ	numbered, abrasion resistant, robust, with inner sheath	300/500 V
		22200	PUR-GELB-JZ / PUR-GELB-OB	numbered, abrasion resistant, robust, low adhesion	300/500 V
		22050	H05BQ-F	colour coded, abrasion resistant, robust	300/500 V
		22058	H07BQ-F / 07BQ-F	colour coded, abrasion resistant, robust	450/750 V
		18120	UNIPUR®	coloured cores, abrasion resistant, robust, low adhesion	300/500 V
	●	21200	F-C-PURö-JZ / F-C-PURö-OZ	numbered, abrasion resistant, robust, low adhesion	300/500 V
		21400	Yö-C-PURö-JZ / Yö-C-PURö-OZ	numbered, abrasion resistant, robust, low adhesion	300/500 V
		19150	UNIPUR®-CP	coloured cores, abrasion resistant, robust, low adhesion	300/500 V
FRNC		11201	JZ-500 HMH / OZ-500 HMH	flexible, numbered	300/500 V
		13344	MEGAFLEX® 500	flexible, numbered, abrasion resistant	300/500 V
		11965	JB-750 HMH	flexible, coloured cores	450/750 V
		12723	JZ-600 HMH / OZ-600 HMH	flexible, numbered	0.6/1 kV
	●	11656	JZ-500 HMH-C / OZ-500 HMH-C	flexible, numbered	300/500 V
		11942	JB-750 HMH-C	flexible, coloured cores	450/750 V
		12850	JZ-600 HMH-C	flexible, numbered	0.6/1 kV
TPE-O	●	26125	KOMPOFLEX® JZ-500	numbered	300/500 V
		26217	KOMPOFLEX® JZ-500-C / OZ-500-C	numbered	300/500 V

HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC	●	15001	JZ-HF / OZ-HF	numbered	300/500 V
		24050	MULTISPEED® 500-PVC	numbered, low adhesion, cores are bunch stranded	300/500 V
		15930	JZ-HF-CY / OZ-HF-CY	numbered	300/500 V
		24086	MULTISPEED® 500-C-PVC	numbered, low adhesion, cores are bunch stranded	300/500 V
PUR		25459	ROBOFLEX® 2001	coloured cores, for torsional / bending loads	300/500 V
		15520	PURö-JZ-HF / PURö-J-HF / PURö-OZ-HF	numbered, abrasion resistant, robust, low adhesion	300/500 V
		22501	MULTIFLEX 512®-PUR	numbered, abrasion resistant, robust, low adhesion	300/500 V
		24119	MULTISPEED® 500-PUR	numbered, abrasion resistant, robust, low adhesion, cores are bunch stranded	300/500 V
	●	25539	ROBOFLEX® 2001-C	coloured cores, for torsional / bending loads	300/500 V
		22400	PURö-JZ-HF-YCP / PURö-OZ-HF-YCP	numbered, abrasion resistant, robust, low adhesion	300/500 V
		22571	MULTIFLEX 512®-C-PUR	numbered, abrasion resistant, robust, low adhesion	300/500 V
		24156	MULTISPEED® 500-C-PUR	numbered, abrasion resistant, robust, low adhesion, cores are bunch stranded	300/500 V
TPE-O	●	24191	MULTISPEED® 500-TPE	numbered, abrasion resistant, robust, low adhesion, cores are bunch stranded	300/500 V
		24236	MULTISPEED® 500-C-TPE	numbered, abrasion resistant, robust, low adhesion, cores are bunch stranded	300/500 V

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR class	Oil-resistant	Halogen-free	UV-resistant	Outdoor installation	Flame-retardant	NFPA
flexible	fixed										
-15°C to +80°C	-40°C to +80°C	2 - 100	0.5 - 185	grey	Eca	●				●	
-15°C to +80°C	-40°C to +80°C	2 - 34	0.5 - 35	black	Eca	●		●	●	●	
-15°C to +80°C	-40°C to +80°C	2 - 5	1 - 2.5	orange		●				●	
-15°C to +80°C	-40°C to +80°C	2 - 30	0.5 - 2.5	grey	Eca	●				●	
-5°C to +70°C	-40°C to +70°C	2 - 50	0.5 - 2.5	grey	Eca	●				●	
-5°C to +70°C	-40°C to +70°C	2 - 7	0.75 - 6	diverse	Eca					●	
-15°C to +80°C	-40°C to +80°C	2 - 41	0.75 - 2.5	blue	Eca	●		●	●	●	
-15°C to +80°C	-40°C to +80°C	2 - 11	2.5 - 185	grey	Eca	●				●	
-15°C to +80°C	-40°C to +80°C	3 - 5	1.5 - 2.5	yellow		●				●	
-15°C to +80°C	-40°C to +80°C	2 - 100	0.5 - 185	black	Eca	●		●	●	●	
–	-15°C to +90°C	1 - 24	1 - 630	black	Eca	●		●	●	●	
-10°C to +80°C	-40°C to +80°C	2 - 100	0.5 - 50	grey	Eca	●				●	
-10°C to +80°C	-40°C to +80°C	2 - 42	0.5 - 35	black	Eca	●		●	●	●	
-5°C to +70°C	-40°C to +70°C	2 - 50	0.5 - 2.5	grey	Eca	●				●	
-15°C to +80°C	-40°C to +80°C	2 - 100	0.5 - 150	transparent	Eca	●				●	
-15°C to +80°C	-40°C to +80°C	2 - 5	0.5 - 185	transparent	Eca	●				●	
-15°C to +80°C	-40°C to +80°C	2 - 100	0.5 - 150	transparent	Eca	●				●	
-15°C to +80°C	-40°C to +80°C	2 - 12	0.5 - 150	transparent	Eca	●				●	
-10°C to +80°C	-30°C to +80°C	2 - 25	0.5 - 0.75	blue		●				●	
-15°C to +80°C	-40°C to +80°C	2 - 25	0.5 - 185	black	Eca	●		●	●	●	
-15°C to +80°C	-40°C to +80°C	2 - 50	0.5 - 16	grey	Eca	●		●	●		
-20°C to +80°C	-40°C to +80°C	2 - 50	0.5 - 95	grey	Eca	●		●	●		
-15°C to +80°C	-40°C to +80°C	2 - 5	2 - 35	orange		●		●	●		
-15°C to +80°C	-40°C to +80°C	2 - 7	0.75 - 35	yellow		●		●	●		
-40°C to +80°C	-50°C to +90°C	2 - 5	0.75 - 1	orange		●	●	●	●		
-40°C to +80°C	-50°C to +90°C	2 - 12	1.5 - 240	orange		●	●	●	●		
-40°C to +90°C	–	2 - 41	0.5 - 16	diverse		●	●	●	●		
-20°C to +80°C	-40°C to +80°C	2 - 50	0.5 - 6	grey	Eca			●	●		
-20°C to +80°C	-40°C to +80°C	2 - 50	0.5 - 120	grey	Eca	●		●	●		
-40°C to +90°C	–	2 - 41	0.5 - 16	diverse	Eca	●	●	●	●		
-25°C to +70°C	-40°C to +70°C	2 - 100	0.5 - 120	grey	Dca	●	●			●	
-30°C to +80°C	-40°C to +80°C	2 - 65	0.5 - 120	grey		●	●	●	●	●	
-15°C to +70°C	-40°C to +70°C	3 - 5	1.5 - 120	grey		●	●			●	
-25°C to +70°C	-40°C to +70°C	2 - 37	0.5 - 120	black	Dca	●	●	●	●	●	
-25°C to +70°C	-40°C to +70°C	2 - 25	0.5 - 185	grey	Dca	●	●			●	
-15°C to +70°C	-40°C to +70°C	3 - 5	1.5 - 120	grey		●	●			●	
-25°C to +70°C	-40°C to +70°C	3 - 36	0.5 - 150	black	Dca	●	●	●	●	●	
-30°C to +90°C	-40°C to +100°C	2 - 61	0.5 - 50	black		●	●	●	●		
-30°C to +90°C	-40°C to +100°C	2 - 61	0.5 - 50	black		●	●	●	●		

Highly flexible cables for continuous movement, such as drag chains

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR class	Oil-resistant	Halogen-free	UV-resistant	Outdoor installation	Flame-retardant	NFPA
flexible	fixed										
-10°C to +80°C	-40°C to +80°C	2 - 65	0.5 - 16	grey		●				●	
-15°C to +80°C	-30°C to +80°C	2 - 42	0.5 - 2.5	black		●		●	●	●	
-10°C to +80°C	-40°C to +80°C	2 - 61	0.5 - 16	grey		●				●	
-15°C to +80°C	-30°C to +80°C	2 - 25	0.5 - 2.5	black		●		●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 41	0.25 - 35	black				●	●		
-20°C to +80°C	-40°C to +80°C	2 - 65	0.5 - 95	grey		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	2 - 65	0.5 - 16	grey		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	2 - 42	0.5 - 2.5	black		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	3 - 25	0.14 - 1.5	black		●		●	●		
-20°C to +80°C	-40°C to +80°C	2 - 65	0.5 - 16	grey		●		●	●		
-30°C to +80°C	-40°C to +80°C	2 - 61	0.5 - 16	grey		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	2 - 25	0.5 - 2.5	black		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	2 - 42	0.5 - 35	ocean blue		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	2 - 25	0.5 - 4	ocean blue		●	●	●	●		

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Control Cables

ACC. TO UL/CSA

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC		83090	JZ-602 / OZ-602	numbered	UL: 600 V
		83704	JZ-603 / OZ-603	numbered, HAR	UL: 600 V
		11815	JZ-600 / OZ-600 UL/CSA	numbered,	UL: 600 V
		63079	TRAYCONTROL® 500	numbered, for TC-ER, PLTC-ER, ITC-ER, WTTTC	UL: 0.6/1 kV
		69661	JZ-604 TC TRAY CABLE / OZ-604 TC TRAY CABLE	numbered, for TC-ER	UL: 600 V
		62020	TRAYCONTROL® 600	numbered, for TC-ER, PLTC-ER, ITC-ER, WTTTC	UL: 0.6/1 kV
		28034	H05VV-F/SJT	coloured cores, HAR	300/500 V
	●	83233	HELUCONTROL® 2516 / 600	coloured cores	UL: 600 V
		82990	JZ-602-CY / OZ-602-CY	numbered, with inner sheath	UL: 600 V
		83709	JZ-603-CY / OZ-603-CY	numbered, with inner sheath, HAR	UL: 600 V
		12345	JZ-600-Y-CY / OZ-600-Y-CY UL/CSA	numbered, with inner sheath	0.6/1 kV
		62813	TRAYCONTROL® 500-C	numbered, for TC-ER, PLTC-ER, ITC-ER, WTTTC	UL: 0.6/1 kV
		69750	JZ-604-FCY TC TRAY CABLE / OZ-604-FCY TC...	numbered, for TC-ER	UL: 600 V
		69804	JZ-604-YCY TC TRAY CABLE	numbered, for TC-ER, with inner sheath	UL: 600 V
PUR	●	63049	TRAYCONTROL® 600-C	numbered, for TC-ER, PLTC-ER, ITC-ER, WTTTC	UL: 0.6/1 kV
		83350	HELUCONTROL® 2516 / 600-C	coloured cores	UL: 600 V
FRNC		12471	JZ-602-PUR / OZ-602-PUR	numbered	UL: 600 V
		12550	JZ-602-C-PUR / OZ-602-C-PUR	numbered, with inner sheath	UL: 600 V
	●	13344	MEGAFLEX® 500	numbered, two approval	UL: 600 V
		13200	MEGAFLEX® 600	numbered, two approval	0.6/1 kV
TPE-O	●	13500	MEGAFLEX® 500-C	numbered	UL: 600 V
		15217	MEGAFLEX® 600-C	flexible, numbered	0.6/1 kV
		66820	TRAYCONTROL® 670 HDP	numbered, for TC-ER, WTTTC	UL: 0.6/1 kV
		66829	TRAYCONTROL® 670-C HDP	numbered, for TC-ER, WTTTC	UL: 0.6/1 kV

ACC. TO UL/CSA - HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC		89900	JZ-602-RC	numbered, low adhesion	UL: 1000 V
		24295	MULTISPEED® 500-PVC UL/CSA	numbered, low adhesion, cores are bunch stranded, extruded as filler with pressure	300/500 V
		62502	MULTIFLEX 600	numbered, for TC-ER, PLTC-ER, ITC-ER, WTTTC	UL: 0.6/1 kV
	●	89950	JZ-602 RC-CY	numbered, low adhesion	UL: 1000 V
		24336	MULTISPEED® 500-C-PVC UL/CSA	numbered, low adhesion, with inner sheath, cores are bunch stranded	300/500 V
		62557	MULTIFLEX 600-C	numbered, for TC-ER, PLTC-ER, ITC-ER, WTTTC	UL: 0.6/1 kV
PUR		11022017	HELUCONTROL® ROBOFLEX® PUR UL/CSA	numbered, for torsional / bending loads	UL: 600 V
		11022537	ROBOFLEX® HYBRID PUR UL/CSA	numbered, abrasion resistant, low adhesion, for torsional / bending loads	UL: 1000 V
		12630	JZ-602-RC-PUR	numbered, abrasion resistant, robust, low adhesion	UL: 600 V
		21559	HELUCHAIN® MULTIFLEX 512®-PUR UL/CSA	numbered, abrasion resistant, robust, low adhesion	UL: 1000 V
		24370	MULTISPEED® 500-PUR UL/CSA	numbered, abrasion resistant, robust, low adhesion, cores are bunch stranded	UL: 600 V
	●	11022437	HELUCONTROL® ROBOFLEX®-D PUR UL/CSA	numbered, for torsional / bending loads	UL: 600 V
		22400	PURö-JZ-HF-YCP / PURö-OZ-HF-YCP	numbered, abrasion resistant, robust, low adhesion	300/500 V
		12680	JZ-602 RC-C-PUR	numbered, abrasion resistant, robust, low adhesion, with inner sheath	UL: 600 V
		21630	HELUCHAIN® MULTIFLEX 512®-C-PUR UL/CSA	numbered, abrasion resistant, robust, low adhesion	UL: 1000 V
TPE-O	●	24410	MULTISPEED® 500-C-PUR UL/CSA	numbered, abrasion resistant, robust, low adhesion, cores are bunch stranded	300/500 V
		11001824	HELUCHAIN® MULTISPEED® 522-TPE UL/CSA	numbered, abrasion resistant, robust, low adhesion	300/500 V
		11001898	HELUCHAIN® MULTISPEED® 522-C-TPE UL/CSA	numbered, abrasion resistant, robust, low adhesion	300/500 V

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

Temperature range		Core number	Cross section mm² / AWG	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-10°C to +90°C	-40°C to +90°C	2 - 41	0.5 - 120	grey		●				●	
-5°C to +90°C	-40°C to +90°C	2 - 61	0.5 - 2.5	grey		●				●	
-5°C to +80°C	-40°C to +80°C	2 - 25	0.5 - 25	black & grey	Eca	●		● bk	● bk	●	
-5°C to +90°C	-25°C to +105°C	2 - 61	AWG 20 - 500 kcmil	grey		●		●	●	●	●
-5°C to +90°C	-40°C to +90°C	2 - 61	1 - 185	black		●		●	●	●	●
+5°C to +50°C	-25°C to +105°C	2 - 61	AWG 20 - 500 kcmil	black		●		●	●	●	●
-5°C to +70°C	-40°C to +70°C	2 - 5	AWG 17 - 11	diverse		●				●	
-10°C to +105°C	-40°C to +105°C	2 - 36	AWG 14 - 12	black & grey		●				●	
-10°C to +90°C	-40°C to +90°C	2 - 41	0.5 - 120	grey		●				●	
-5°C to +90°C	-40°C to +90°C	2 - 61	0.5 - 2.5	grey		●				●	
-5°C to +80°C	-40°C to +80°C	2 - 25	0.5 - 25	black & grey	Eca	●		● bk	● bk	●	
+5°C to +50°C	-25°C to +105°C	2 - 61	AWG 20 - 500 kcmil	grey		●		●	●	●	●
-5°C to +90°C	-40°C to +90°C	2 - 61	AWG 18 - 8	black		●		●	●	●	●
-5°C to +90°C	-40°C to +90°C	3 - 7	AWG 6 - 4	black		●		●	●	●	●
+5°C to +50°C	-25°C to +105°C	2 - 61	AWG 20 - 500 kcmil	black		●		●	●	●	●
-10°C to +105°C	-40°C to +105°C	2 - 30	AWG 14 - 12	black & grey		●				●	
-5°C to +80°C	-40°C to +80°C	2 - 41	0.5 - 70	grey		●		●	●		
-5°C to +80°C	-40°C to +80°C	2 - 41	0.5 - 50	grey		●		●	●		
-30°C to +80°C	-40°C to +80°C	2 - 65	0.5 - 120	grey		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 65	0.5 - 150	black		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 25	0.5 - 70	grey		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 25	0.5 - 10	black		●	●	●	●	●	
+5°C to +50°C	-40°C to +105°C	4	AWG 18 - 500 kcmil	orange		●		●	●	●	●
+5°C to +50°C	-40°C to +105°C	4	AWG 18 - 500 kcmil	orange		●		●	●	●	●

Highly flexible cables for continuous movement, such as drag chains

Temperature range		Core number	Cross section mm² / AWG	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-5°C to +80°C	-40°C to +80°C	3 - 34	0.5 - 35	black		●		●	●	●	
-5°C to +80°C	-30°C to +80°C	2 - 42	0.5 - 2.5	black		●		●	●	●	
+5°C to 50°C	-40°C to +105 °C	2 - 60	AWG 20 - 2	black		●		●	●	●	●
-5°C to +80°C	-40°C to +80°C	3 - 34	0.5 - 35	black		●		●	●	●	
-5°C to +80°C	-30°C to +80°C	2 - 25	0.5 - 2.5	black		●		●	●	●	
+5°C to 50°C	-40°C to +105°C	2 - 34	AWG 20 - 2	black		●		●	●	●	●
-30°C to +90°C	-40°C to +90°C	2 - 41	0.5 - 1.5	black		●	●	●	●		
-30°C to +90°C	-40°C to +90°C	4 - 25	0.5 - 2.5	black		●	●	●	●		
-5°C to +80°C	-40°C to +80°C	3 - 34	0.5 - 35	grey		●		●	●		
-30°C to +90°C	-40°C to +90°C	2 - 65	0.5 - 16	grey		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	2 - 42	0.5 - 2.5	black		●	●	●	●		
-30°C to +90°C	-40°C to +90°C	4 - 25	0.5 - 1.5	black		●	●	●	●	●	
-20°C to +80°C	-40°C to +80°C	2 - 65	0.5 - 16	grey		●		●	●		
-5°C to +80°C	-40°C to +80°C	3 - 34	0.5 - 35	grey		●		●	●	●	
-30°C to +90°C	-40°C to +90°C	2 - 65	0.5 - 16	grey		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 36	0.5 - 2.5	black		●	●	●	●	●	
-30°C to +80°C	-40°C to +90°C	2 - 42	0.5 - 2.5	ocean blue		●	●	●	●		
-30°C to +80°C	-40°C to +90°C	2 - 25	0.5 - 2.5	ocean blue		●	●	●	●		

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the **red numbers** with the part no. listed in the table)

Motor & Servo Cables

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC	●	22860	TOPFLEX® 600-PVC	flexible, numbered	0.6/1 kV
		22960	TOPFLEX® 600-C-PVC	flexible, numbered	0.6/1 kV
		22084	TOPFLEX®-EMV-2YSLCY-J	coloured cores, double screened	0.6/1 kV
		22368	TOPFLEX®-EMV-3-PLUS-2YSLCY-J	coloured cores, double screened, third protective conductor	0.6/1 kV
		22234	TOPFLEX®-EMV-UV-2YSLCYK-J	coloured cores, double screened	0.6/1 kV
		22673	TOPFLEX®-EMV-UV-3-PLUS-2YSLCYK-J	coloured cores, double screened, third protective conductor	0.6/1 kV
		24489	TOPFLEX®-EMV-UV-2XSLCYK-J	coloured cores, double screened	0.6/1 kV
		24508	TOPFLEX®-EMV-UV-3-PLUS-2XSLCYK-J	coloured cores, double screened, third protective conductor	0.6/1 kV
TPE-O	●	24522	TOPFLEX®-EMV-UV-2XSLCHK-J	coloured cores, double screened	0.6/1 kV
		24536	TOPFLEX®-EMV-UV-3PLUS-2XSLCHK-J	coloured cores, double screened, third protective conductor	0.6/1 kV

HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PUR	●	22870	TOPFLEX® 611-PUR	numbered, abrasion resistant, robust, low adhesion	0.6/1 kV
		22970	TOPFLEX® 611-C-PUR	numbered, abrasion resistant, robust, low adhesion, with inner sheath	0.6/1 kV
		71491	TOPSERV® 110	numbered, low adhesion, with 1 pair	0.6/1 kV
		71990	TOPSERV® 120	numbered, low adhesion, with 2 pairs	0.6/1 kV

ACC. TO UL/CSA

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC	●	707250	TOPSERV® 108 PVC	flexible, numbered, acc. to OEM approval Siemens a.o.	0.6/1 kV
		707221	TOPSERV® 112 PVC	flexible, numbered, with 1 pair, acc. to OEM approval Siemens, Lenze, a.o.	0.6/1 kV
		707290	TOPSERV® 119 PVC	approval Bosch Rexroth a.o.	0.6/1 kV
		709930	TOPSERV® Hybrid PVC	flexible, single-cable technology, acc. to OEM approvals Siemens, Hyperface DSL etc.	0.6/1 kV
		63139	TOPFLEX® 600 VFD	flexible, numbered, double screened, for TC-ER, WTTTC	UL: 0.6/1 kV
		22320	TOPFLEX®-EMV-UV-2YSLCYK-J UL/CSA	coloured cores, double screened	UL: 1000 V
		22193	TOPFLEX®-EMV-UV-3PLUS-2YSLCYK-J UL/CSA	coloured cores, double screened, third protective conductor	UL: 1000 V
		22804	TOPFLEX®-EMV-UV-3PLUS-2XSLCYK-J UL/CSA	coloured cores, double screened, third protective conductor	UL: 1000 V
PUR	●	22389	TOPFLEX®-EMV-UV-2YSLC11Y-J UL/CSA	colour coded, double screened, abrasion resistant, robust, low adhesion	UL: 1000 V
		78377	TOPFLEX®-MOTOR-EMV 1/1	flexible, triple screened, abrasion resistant, low adhesion	0.6/1 kV
		78614	TOPFLEX®-MOTOR-EMV 3/3	flexible, triple screened, third protective conductor, abrasion resistant, low adhesion	0.6/1 kV
TPE-O	●	63156	TOPFLEX® 650 VFD	flexible, double screened, with 1 or 2 pair(s), for TC-ER, WTTTC	UL: 0.6/1 kV
		59398	TOPFLEX® 1000 VFD	flexible, double screened, third protective conductor, for TC-ER	UL: 0.6/1 kV

ACC. TO UL/CSA - HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PUR	●	11022415	HELUPOWER® ROBOFLEX® PUR UL/CSA	numbered, abrasion resistant, robust, low adhesion, for torsion applications	0.6/1 kV
		11022484	HELUPOWER® ROBOFLEX® HYBRID-D PUR UL/CSA	numbered, abrasion resistant, robust, low adhesion, for torsion applications	0.6/1 kV
		11022453	HELUPOWER® ROBOFLEX®-D PUR UL/CSA	numbered, abrasion resistant, robust, low adhesion, for torsion applications	0.6/1 kV
		75943	TOPSERV® 109 PUR	numbered, abrasion resistant, low adhesion, OEM approval Siemens a.o.	0.6/1 kV
		706003	TOPSERV® 113 PUR	numbered, abrasion resistant, low adhesion, 1 pair, OEM approval Siemens, Lenze, a.o.	0.6/1 kV
		708499	TOPSERV® 121 PUR	numbered, abrasion resistant, low adhesion, 2 pairs, OEM approval Bosch Rexroth a.o.	0.6/1 kV
		709703	TOPSERV® Hybrid PUR	Single-cable techn., abrasion res., low adh., OEM appr. Siemens, Hyperface DSL, EnDat, a.o.	0.6/1 kV
TPE-O	●	62607	TOPSERV® 600 VFD	numbered, for TC-ER, WTTTC	flexible, double s
		59837	TOPSERV® 650 VFD	flexible, with 1 or 2 pair(s), for TC-ER, WTTTC	flexible, double s

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-15°C to +80°C	-40°C to +80°C	4	1.5 - 120	grey		●				●	
-15°C to +80°C	-40°C to +80°C	4	1.5 - 120	grey	Eca	●				●	
-5°C to +70°C	-40°C to +70°C	4	1.5 - 185	transparent	Eca					●	
-5°C to +70°C	-40°C to +70°C	3+3	1.5 - 240	transparent	Eca					●	
-5°C to +70°C	-40°C to +70°C	4	1.5 - 185	black				●	●	●	
-5°C to +70°C	-40°C to +70°C	3+3	1.5 - 240	black				●	●	●	
-5°C to +90°C	-40°C to +90°C	4	1.5 - 185	black				●	●	●	
-5°C to +90°C	-40°C to +90°C	3+3	1.5 - 240	black				●	●	●	
-15°C to +90°C	-40°C to +90°C	4	1.5 - 185	black			●	●	●	●	
-15°C to +90°C	-40°C to +90°C	3+3	1.5 - 240	black	Eca		●	●	●	●	

Highly flexible cables for continuous movement, such as drag chains

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-30°C to +80°C	-40°C to +80°C	4	1.5 - 120	grey		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	4	1.5 - 120	grey		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	6	1.5 - 50	petrol		●	●	●	●		
-30°C to +80°C	-40°C to +80°C	8	1.5 - 50	petrol		●	●	●	●		

Flexible cables for fixed installation or occasional movement

Temperature range		Core number	Cross section mm ² / AWG	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
0°C to +90°C	-20°C to +90°C	4	1.5 - 50	orange		●				●	
0°C to +90°C	-20°C to +90°C	6	1.0 - 50	orange		●				●	
0°C to +90°C	-20°C to +90°C	8	1.0 - 16	orange		●				●	
0°C to +90°C	-20°C to +90°C	8 - 10	0.5 - 4	orange		●				●	
+5°C to +50°C	-25°C to +105°C	4	AWG 18 - 2	orange & black		●		●	●	●	●
-5°C to +80°C	-40°C to +80°C	4	1.5 - 185	black				●	●	●	
-5°C to +80°C	-40°C to +80°C	3+3	1.5 - 240	black				●	●	●	
-5°C to +90°C	-40°C to +90°C	3+3	1.5 - 240	black				●	●	●	
-5°C to +80°C	-40°C to +80°C	4	1.5 - 185	black		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	4	1.5 - 185	orange		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	3+3	1.5 - 150	orange		●	●	●	●	●	
+5°C to +50°C	-40°C to +105°C	4+2 or 4	AWG 16 - 4	orange & black		●		●	●	●	●
+5°C to +50°C	-40°C to +105°C	3+3	AWG 8 - 500 kcmil	black		●		●	●	●	●

Highly flexible cables for continuous movement, such as drag chains

Temperature range		Core number	Cross section mm ² / AWG	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-30°C to +90°C	-40°C to +90°C	3 - 4	2.5 - 50	black		●	●	●		●	
-30°C to +90°C	-40°C to +90°C	6 - 8	1.5 - 6	black		●	●	●		●	
-30°C to +90°C	-40°C to +90°C	3 - 4	1.5 - 6	black		●	●	●		●	
-30°C to +90°C	-40°C to +90°C	4	1.5 - 95	orange		●	●	●		●	
-30°C to +90°C	-40°C to +90°C	6	0.75 - 50	orange		●	●	●	●	●	
-30°C to +90°C	-40°C to +90°C	8	0.75 - 50	orange		●	●	●	●	●	
-30°C to +90°C	-40°C to +90°C	8 - 12	0.5 - 10	orange		●	●	●	●	●	
+5°C to +50°C	-40°C to +105°C	4	AWG 18 - 2	orange & black		●		●	●	●	●
+5°C to +50°C	-40°C to +105°C	4+2 or 4	AWG 16 - 4	orange & black		●		●	●	●	●

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the **red numbers** with the part no. listed in the table)

Feedback Cables

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC	●	22800	TOPFLEX®-PVC	coloured cores	350 V
		22825	Incremental Feedback-Cable	coloured cores	350 V

HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PUR	●	22847	TOPFLEX®-PUR	coloured cores, abrasion resistant, low adhesion	350 V
		22818	Incremental Feedback-cable-C-PUR	coloured cores, abrasion resistant, low adhesion	250 V
		22823	Tachofeedback-cable-C-PUR	coloured cores, abrasion resistant, low adhesion	450 V

ACCORDING TO UL/CSA

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC	●	707417	TOPGEBER 511 PVC	flexible, acc. to OEM approval Siemens, Bosch, Lenze a.o.	30/300 V

ACC. TO UL/CSA - HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PUR	●	700655	TOPGEBER 512 PUR	abrasion resistant, low adhesion, acc. to OEM approval Bosch Rexroth a.o.	30/300 V

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

	Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	flexible	fixed										
	-5°C to +70°C	-30°C to +90°C	8 - 14	0.14 - 0.5	grey		●				●	
	-5°C to +70°C	-30°C to +90°C	10	0.25 - 1.0	grey		●				●	

Highly flexible cables for continuous movement, such as drag chains

	Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	flexible	fixed										
	-30°C to +80°C	-40°C to +80°C	8 - 12	0.14 - 0.5	grey		●	●	●	●		
	-30°C to +80°C	-40°C to +80°C	10	0.25 - 1.0	orange		●	●	●	●		
	-30°C to +80°C	-40°C to +80°C	9	0.5	orange		●	●	●	●		

Flexible cables for fixed installation or occasional movement

	Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	flexible	fixed										
	0°C to +90°C	-20°C to +90°C	4 - 16	0.14 - 1.0	green		●				●	

Highly flexible cables for continuous movement, such as drag chains

	Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	flexible	fixed										
	-30°C to +90°C	-40°C to +90°C	4 - 16	0.14 - 1.0	diverse		●	●	●	●	●	

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the **red numbers** with the part no. listed in the table)

Data/Command Cables

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC		18001	TRONIC (LiYY)	flexible, coloured cores acc. to DIN 47100	300/500 V
		21065	PAAR-TRONIC	flexible, coloured cores acc. to DIN 47100, twisted pairs	350 V
	●	21129	PAAR-TRONIC-Li-2YCYv	coloured cores, low capacitance, reinforced outer sheath	250 V
		21111	PAAR-TRONIC-Li-2YCY	coloured cores, low capacitance	250 V
		15987	LiFYCY	highly flexible, coloured cores, twisted pairs	350 V
		20139	TRONIC-CY (LiY-CY) / TRONIC-DY (LiY-DY)	flexible, coloured cores acc. to DIN 47100, with drain litz wire	350/500 V
		21001	PAAR-TRONIC-CY	flexible, coloured cores acc. to DIN 47100, with drain litz wire	350 V
		17023	PAAR-CY-OZ	flexible, numbered, twisted pairs	300/500 V
		21065	PAAR-TRONIC-CY-CY	flexible, coloured cores acc. to DIN 47100, twisted pairs	300/500 V
PUR	●	52490	DATA PUR-C®	flexible, coloured cores acc. to DIN 47100	300/500 V
FRNC	●	52300	DATAFLAMM®	coloured cores acc. to DIN 47100, low capacitance	300/500 V
		52365	DATAFLAMM®-C	coloured cores acc. to DIN 47100, low capacitance, with drain litz wire	300/500 V
		52435	DATAFLAMM®-C-PAAR	coloured cores acc. to DIN 47100, low capacitance, with drain litz wire	300/500 V

HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC	●	49550	SUPERTRONIC®-PVC	coloured cores acc. to DIN 47100, low adhesion	350 V
		49620	SUPERTRONIC®-C-PVC	coloured cores acc. to DIN 47100, low adhesion	350 V
PUR	●	49583	SUPERTRONIC®-PURö	coloured cores acc. to DIN 47100, abrasion resistant, robust, low adhesion	350 V
		49653	SUPERTRONIC®-C-PURö	coloured cores acc. to DIN 47100, abrasion resistant, robust, low adhesion	350/500 V
		19101	SUPER-PAAR-TRONIC-C-PUR®	coloured cores acc. to DIN 47100, abrasion res., robust, low adhesion, twisted pairs	350 V

ACC. TO UL/CSA

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC		83137	HELUDATA® TRONIC 2464 / 300 GREY	flexible, coloured cores	UL: 300 V
		83045	HELUDATA® TRONIC 2464 / 300 BLACK	flexible, coloured cores	UL: 300 V
		83904	HELUDATA® PAAR-TRONIC 2464 / 300 GREY	coloured cores, twisted pairs	UL: 300 V
		65214	HELUDATA® PAAR-TRONIC 2464 / 300 BLACK	coloured cores, twisted pairs	UL: 300 V
		62625	TRAYCONTROL® 300	flexible, coloured cores, for PLTC-ER, ITC-ER	UL: 300 V
		62794	TRAYCONTROL® 300 TP	flexible, coloured cores, twisted pairs, PLTC-ER, ITC-ER	UL: 300 V
	●	83254	HELUDATA® TRONIC-CY 2464 / 300 GREY	coloured cores acc. to DIN 47100, with drain wire	UL: 300 V
		83976	HELUDATA® TRONIC-CY 2464 / 300 BLACK	coloured cores acc. to DIN 47100, with drain wire	UL: 300 V
		83774	HELUDATA® PAAR-TRONIC-CY 2464 / 300 GREY	coloured cores acc. to DIN 47100, with drain wire	UL: 300 V
		65314	HELUDATA® PAAR-TRONIC-CY 2464 / 300 BLACK	coloured cores acc. to DIN 47100, with drain wire	UL: 300 V
		62710	TRAYCONTROL® 300-C	flexible, coloured cores, for PLTC-ER, ITC-ER	UL: 300 V
		61999	TRAYCONTROL® 300-C TP	flexible, coloured cores, twisted pairs, for PLTC-ER, ITC-ER	UL: 300 V

ACC. TO UL/CSA - HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC	●	49885	SUPERTRONIC®-310-PVC	coloured cores acc. to DIN 47100, low adhesion	UL: 300 V
		49920	SUPERTRONIC®-310-C-PVC	coloured cores acc. to DIN 47100, low adhesion	UL: 300 V
PUR		11022475	HELUDATA®ROBOFLEX®-recycle PUR UL/CSA	coloured coded, abrasion resistant, robust, low adhesion	UL: 300 V
		11022005	HELUDATA®ROBOFLEX® PUR UL/CSA	coloured cores acc. to DIN 47100, for torsional / bending loads	UL: 300 V
		49764	SUPERTRONIC®-330-PURö	coloured cores acc. to DIN 47100, abrasion resistant, robust, low adhesion	UL: 300 V
		24567	MULTISPEED®-TRONIC-PUR	coloured cores acc. to DIN 47100, abrasion res., robust, low adhesion, extruded filler	UL: 300 V
	●	11022463	HELUDATA®ROBOFLEX®-PAIR-D PUR UL/CSA	coloured cores acc. to DIN 47100, for torsional / bending loads, twisted pairs	UL: 300 V
		11022427	HELUDATA®ROBOFLEX®-D PUR UL/CSA	coloured cores acc. to DIN 47100, for torsional / bending loads	UL: 300 V
		49797	SUPERTRONIC®-330-C-PURö	coloured cores acc. to DIN 47100, abrasion resistant, robust, low adhesion	UL: 300 V
		49536	SUPER-PAAR-TRONIC-340-C-PUR	coloured cores acc. to DIN 47100, abrasion res., robust, low adhesion, twisted pairs	UL: 300 V
		24614	MULTISPEED®-TRONIC-C-PUR	coloured cores acc. to DIN 47100, abrasion res., robust, low adhesion, extruded filler	UL: 300 V

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-5°C to +80°C	-40°C to +80°C	2 - 61	0.14 - 1.5	grey	Eca				●	●	
-5°C to +80°C	-30°C to +80°C	2 - 110	0.14 - 0.75	grey	Eca					●	
-5°C to +70°C	-30°C to +80°C	4 - 20	0.22 - 1	black						●	
-5°C to +70°C	-30°C to +80°C	4 - 20	0.22 - 0.5	grey						●	
-5°C to +70°C	-40°C to +70°C	2 - 32	0.22 - 0.5	grey						●	
-5°C to +80°C	-40°C to +80°C	1 - 61	0.14 - 1.5	grey	Eca					●	
-5°C to +80°C	-30°C to +80°C	2 - 122	0.14 - 1.5	grey	Eca					●	
-15°C to +80°C	-40°C to +80°C	2 - 25	1 - 1.5	grey						●	
-5°C to +80°C	-40°C to +80°C	2 - 48	0.14 - 0.5	grey						●	
-5°C to +80°C	-40°C to +80°C	2 - 25	0.14 - 0.5	grey		●		●	●		
+5°C to +70°C	-40°C to +70°C	2 - 50	0.14 - 0.75	grey	Fca-Eca					●	
+5°C to +70°C	-40°C to +70°C	2 - 40	0.14 - 0.75	grey	Fca-Eca					●	
+5°C to +70°C	-40°C to +70°C	4 - 36	0.14 - 0.75	grey	Eca					●	

Highly flexible cables for continuous movement, such as drag chains

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-5°C to +70°C	-40°C to +70°C	2 - 25	0.14 - 0.34	grey		●				●	
-5°C to +70°C	-40°C to +70°C	2 - 25	0.14 - 0.34	grey		●				●	
-5°C to +70°C	-40°C to +70°C	2 - 25	0.14 - 0.34	grey		●		●	●		
-30°C to +70°C	-40°C to +70°C	2 - 25	0.14 - 0.34	grey		●	●	●	●		
-30°C to +70°C	-40°C to +70°C	2 - 28	0.14 - 1	grey		●	●	●	●		

Flexible cables for fixed installation or occasional movement

Temperature range		Core number	Cross section mm ² / AWG	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-10°C to +80°C	-40°C to +80°C	2 - 30	AWG 26 - 16	grey						●	
-10°C to +80°C	-40°C to +80°C	2 - 30	AWG 26 - 16	black						●	
-10°C to +80°C	-40°C to +80°C	2 - 50	AWG 26 - 20	grey						●	
-10°C to +80°C	-40°C to +80°C	2 - 50	AWG 26 - 20	black						●	
+5°C to +50°C	-25°C to +105°C	2 - 50	AWG 8 - 16	grey		●				●	●
+5°C to +50°C	-25°C to +105°C	2 - 50	AWG 26 - 18	grey		●				●	●
-10°C to +80°C	-40°C to +80°C	2 - 30	AWG 26 - 16	grey						●	
-10°C to +80°C	-40°C to +80°C	2 - 30	AWG 26 - 16	black						●	
-10°C to +80°C	-40°C to +80°C	2 - 50	AWG 26 - 20	grey						●	
-10°C to +80°C	-40°C to +80°C	2 - 50	AWG 26 - 20	black						●	
+5°C to +50°C	-25°C to +105°C	2 - 50	AWG 28 - 16	grey		●				●	●
+5°C to +50°C	-25°C to +105°C	2 - 50	AWG 26 - 18	grey		●				●	●

Highly flexible cables for continuous movement, such as drag chains

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-5°C to +80°C	-40°C to +80°C	2 - 25	0.14 - 0.34	grey		●				●	
-15°C to +80°C	-40°C to +80°C	4	1.5 - 120	grey	Eca	●				●	
-30°C to +105°C	-40°C to +105°C	3-5	0.34	diverse		●	●	●	●	●	
-30°C to +90°C	-40°C to +90°C	3 - 25	0.25 - 0.34	black		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 25	0.14 - 0.34	grey		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 25	0.25 - 0.34	black		●	●	●	●	●	
-30°C to +90°C	-40°C to +90°C	6 - 20	0.14 - 0.5	black		●	●	●	●	●	
-30°C to +90°C	-40°C to +90°C	10 - 25	0.14 - 0.34	black		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 25	0.14 - 0.34	grey		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 28	0.14 - 1	grey		●	●	●	●	●	
-30°C to +80°C	-40°C to +80°C	2 - 25	0.25 - 0.34	black		●	●	●	●	●	

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Single Core Cables

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC		29081	H05V-K / 05V-K	finely stranded, ring, coil, barrel	300/500 V
		29129	H07V-K / 07V-K	finely stranded, ring, coil, barrel, drum	450/750 V
		28761	H05V-U	single wire, ring, coil	300/500 V
		28785	H07V-U	single wire, ring, drum	450/750 V
		28825	H07V-R	multi wire, ring, drum	450/750 V
PUR		50651	PUR Single Core	finely stranded, cold flexible	1000 V
FRNC		50999	HELUTHERM® 145	finely stranded, tinned wire, cross-linked	300/500 V
		51323	HELUTHERM® 145	finely stranded, tinned wire, cross-linked	450/750 V
Rubber		55001	H05G-K	finely stranded, tinned wire	300/500 V
		55301	H07G-K / 07G-K	finely stranded, tinned wire	450/750 V

HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC		15100	LifY	highly flexible	300/500 V
		15700	LifY	highly flexible	450/750 V
		79623	TOPFLEX® 300		0.6/1 kV
		72946	TOPFLEX® 302	cold flexible, double insulated	0.6/1 kV
		28930	ESUY	Earthing rope	–
TPE-O	●	60288	KOMPOSPEED® 600	abrasion resistant, tinned stranded wire, double insulated	0.6/1 kV
		60216	KOMPOSPEED® 600-C	abrasion resistant, tinned stranded wire, double insulated	0.6/1 kV
Silicone		45101	Siff		300/500 V

ACC. TO UL/CSA

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC		63500	HELUKABEL® SINGLE CORE UL Style 1007	finely stranded, tinned wire	UL: 300 V
		60100	HELUKABEL® SINGLE CORE UL Style 1015	finely stranded, tinned wire	UL: 600 V
		66000	HELUKABEL® SINGLE CORE UL Style 1569	finely stranded, tinned wire	UL: 300 V
		10881	Single 600-J / Single 600-O	finely stranded	UL: 600 V
		64075	FIVENORM H05V2-K / 05V2-K	finely stranded, ring, barrel, HAR, UL AWM, UL MTW, CSA AWM, CSA TEW	300/500 V
		64123	FIVENORM H07V2-K / 07V2-K / H07V-K / 07V-K	finely stranded, ring, barrel, HAR, UL AWM, UL MTW, CSA AWM, CSA TEW	450/750 V
FRNC		61817	HELUTHERM® 145 UL/CSA 300V	finely stranded, tinned wire, cross-linked	UL: 300 V
		59473	HELUTHERM® 145 UL/CSA 600V	finely stranded, tinned wire, cross-linked	UL: 600 V
Silicone		47021	HELUKABEL® SINGLE CORE UL Style 3135	finely stranded, tinned wire, high flash point	UL: 600 V
Single core		10910	Single 600-CY-J / Single 600-CY-O	finely stranded, double insulated	UL: 600 V

ACC. TO UL/CSA - HIGHLY FLEXIBLE

Sheath material	Screening	Part no.	Product name	Additional information, properties	Voltage class
PVC	●	700231	TOPFLEX® 302-UL	cold flexible, double insulated	UL: 600 V
		69601	Single 602-RC-J / Single 602-RC-O	Replace with drag chain	UL: 600 V
		79639	TOPFLEX® 304-C	double insulated	0.6/1 kV
		69631	Single 602-RC-CY-J / Single 602-RC-CY-O	Replace with drag chain	UL: 600 V
PUR	●	75399	TOPFLEX® 301-C	abrasion resistant, double insulated	UL: 1000 V
		25901	MULTISPEED-600-C-PUR-J/O	abrasion resistant, double insulated	UL: 1000 V
		75375	TOPFLEX® 301	abrasion resistant, double insulated	UL: 1000 V
		25888	MULTISPEED-600-PUR-J/O	abrasion resistant, double insulated	UL: 1000 V

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-5°C to +70°C	-30°C to +80°C	1	0.5 - 1	diverse	Eca					●	
-5°C to +70°C	-30°C to +80°C	1	1.5 - 240	diverse	Eca					●	
-5°C to +70°C	-30°C to +80°C	1	0.5 - 1	diverse	Eca					●	
-5°C to +70°C	-30°C to +80°C	1	1.5 - 10	diverse	Eca					●	
-5°C to +70°C	-30°C to +80°C	1	16 - 240	diverse	Eca					●	
–	-40°C to +80°C	1	0.5 - 150	diverse		●	●	●	●		
-35°C to +120°C	-55°C to +145°C	1	0.25 - 240	diverse	Eca-Dca	●	●	●	●	●	
-35°C to +120°C	-55°C to +145°C	1	0.25 - 240	diverse	Eca-Dca	●	●	●	●	●	
-5°C to +110°C	-40°C to +110°C	1	0.5 - 1	diverse							
-5°C to +110°C	-40°C to +110°C	1	1.5 - 120	diverse							

Highly flexible cables for continuous movement, such as drag chains

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-15°C to +80°C	-15°C to +80°C	1	0.1 - 70	diverse						●	
-15°C to +80°C	-15°C to +80°C	1	0.1 - 70	diverse						●	
-5°C to +80°C	-40°C to +80°C	1	1.5 - 240	diverse		●				●	
-15°C to +80°C	-40°C to +80°C	1	1.5 - 240	black				●		●	
–	-5°C to +70°C	1	16 - 240	transparent							
-30°C to +90°C	-40°C to +100°C	1	6 - 185	black		●	●	●	●		
-30°C to +90°C	-40°C to +100°C	1	6 - 240	black		●	●	●	●		
-25°C to +180°C	-60°C to +180°C	1	0.25 - 10	diverse		●	●			●	

Flexible cables for fixed installation or occasional movement

Temperature range		Core number	Cross section mm ² / AWG	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-5°C to +80°C	-30°C to +90°C	1	AWG 26 - 16	diverse		●				●	
-5°C to +105°C	-40°C to +105°C	1	AWG 24 - 500 kcmil	diverse	Eca	●				●	
-5°C to +105°C	-30°C to +105°C	1	AWG 26 - 10	diverse	Eca	●				●	
-5°C to +90°C	-40°C to +90°C	1	6 - 240	black		●		●	●	●	
+5°C to +90°C	-40°C to +90°C	1	0.5 - 1	diverse						●	
+5°C to +90°C	-40°C to +90°C	1	1.5 - 150	diverse						●	
-35°C to +120°C	-55°C to +145°C	1	AWG 24 - 10	diverse		●	●	●	●	●	
-35°C to +120°C	-55°C to +145°C	1	0.25 - 50	diverse		●	●	●	●	●	
–	-60°C to +200°C	1	AWG 24 - 12	diverse		●	●			●	
-5°C to +90°C	-40°C to +90°C	1	6 - 240	black		●		●	●	●	

Highly flexible cables for continuous movement, such as drag chains

Temperature range		Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
flexible	fixed										
-5°C to +70°C	-30°C to +80°C	1	0.5 - 1	diverse				●		●	
-5°C to +70°C	-30°C to +80°C	1	16 - 240	diverse		●		●	●	●	
-5°C to +80°C	-40°C to +90°C	1	2.5 - 300	grey						●	
-5°C to +90°C	-40°C to +90°C	1	10 - 300	orange		●				●	
-15°C to +80°C	-15°C to +80°C	1	6 - 240	black		●	●	●		●	
-30°C to +80°C	-40°C to +80°C	1	2.5 - 300	black		●	●	●	●	●	
-15°C to +80°C	-15°C to +80°C	1	6 - 240	black & green-yellow		●	●	●		●	
-30°C to +80°C	-40°C to +80°C	1	2.5 - 300	black		●	●	●	●	●	

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the **red numbers** with the part no. listed in the table)

Industrial Ethernet

Sheath material	Category	Part no.	Product name	Additional information, properties	Frequency range (MHz)
FRNC	Cat.5e	805699	HELUKAT® 100IND SF/UTP 2x2xAWG 24/1 FRNC		100
		805701	HELUKAT® 100IND SF/UTP 2x2xAWG 26/7 FRNC		100
		805445	AT-V(ZN)H(ZN)BH 2 G50/125 bk OM2		Fibre Optic
		805687	AT-V(ZN)H(ZN)BH 4 E9/125 bk ITU-T G.652d		Fibre Optic
PUR	Cat.5e	801194	HELUKAT® 100IND PROFinet A PUR		100
		805700	HELUKAT® 100IND SF/UTP 2x2xAWG24/1 PUR		100
PE		801650	HELUKAT® PROFinet A Cat.5e SF/UTP PE armoured		100
PVC		801147	HELUKAT® 600A Cat.7e S/FTP 4x2xAWG 23/1 PVC/PVC		1000
PE	Cat.7e	802167	HELUKAT® 600E Cat.7e S/FTP 4x2xAWG 23/1 PVC		1000
		802168	HELUKAT® 600AE Cat.7e S/FTP 4x2xAWG 23/1 FRNC/PE armoured		1000
PVC	SPE	11019819	HELUKAT® SPE Type A 10 BASE T1L 1x2xAWG18/1 armoured PVC		20

HIGHLY FLEXIBLE

Sheath material	Category	Part no.	Product name	Additional information, properties	Frequency range (MHz)
PUR	Cat.5 Cat.5e	800088	HELUKAT® 200S Cat.5 4C SF/UTP 4x1xAWG24/19 PUR	Drag chain	100
		81155	HELUKAT® 200S Cat.5 4P SF/UTP 4x2xAWG24/19 PUR	Drag chain	100
		802101	HELUCOM® PROFinet POF I-V(ZN)11Y 4Y2P980/1000 PUR	Drag chain	Fibre Optic
		805838	HELUCOM® PROFinet POF I-V(ZN)11Y 4Y2P980/1000 PUR	Drag chain	Fibre Optic
		805690	HELUCOM® PROFinet AT-W(ZN)Y(ZN)11Y 2 G50/125µm OM2 PUR	Drag chain	Fibre Optic

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

	Operating temperature range	Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	-25°C to +80°C	4	0.21	blue			●			●	
	-10°C to +70°C	4	0.14	blue			●			●	
	-30°C to +70°C	2	–	black		●	●	●	●	●	
	-40°C to +80°C	4	–	black		●	●	●	●	●	
	-40°C to +80°C	4	0.32	green		●		●		●	
	-40°C to +80°C	4	0.21	blue		●	●			●	
	-40°C to +70°C	4	0.32	black				●	●		
	-30°C to +70°C	8	0.25	black				●	●		
	-45°C to +65°C	8	0.25	black				●	●		
	-45°C to +70°C	8	0.25	black			●	●	●		
	-30°C to +80°C	2	0.82	black				●	●	●	

Highly flexible cables for continuous movement, such as drag chains

	Operating temperature range	Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	-20°C to +70°C	4	0.25	green		●	●			●	
	-25°C to +70°C	8	0.25	green		●	●			●	
	-20°C to +70°C	2	–	red		●	●	●			
	-30°C to +70°C	2	–	green		●	●	●		●	
	-40°C to +80°C	2	–	green		●		●	●		

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the **red numbers** with the part no. listed in the table)

Industrial Ethernet

ACC. TO UL/CSA

Sheath material	Category	Part no.	Product name	Additional information, properties	Frequency range (MHz)
PVC	Cat.5e	800653	HELUKAT® PROFinet A Cat.5e SF/UTP 2x2xAWG22/1 PVC	CMG, AWM 21694	100
		800654	HELUKAT® PROFinet B Cat.5e SF/UTP 2x2xAWG22/7 PVC	CMG, AWM 21694	100
		11018984	PROFinet Typ A Cat.5e SF/UTP 2x2xAWG22/1 PVC PLTC-ER	CMG/ PLTC-ER	100
		11018959	PROFinet Typ B Cat.5e SF/UTP 2x2xAWG22/7 PVC PLTC-ER	CMG/ PLTC-ER	100
		802471	HMCB200 Industrial Ethernet 2x2x0,22 PVC	AWM 2502	100
		803672	HMCB500 Industrial Ethernet 2x2x0,22 + 1x2x0,38 PVC	AWM 2502	100
		801651	HELUKAT® PROFinet B Cat.5e SF/UTP FRNC, hybrid	AWM 21282	100
		805653	HELUKAT® PROFinet A Cat.5e SF/UTP 2x2xAWG22/1 FRNC	CM, AWM 21279	100
		805654	HELUKAT® PROFinet B Cat.5e SF/UTP 2x2xAWG22/7 FRNC	CM, AWM 21279	100
		802185	HELUKAT® PROFinet B Cat.5e SF/UTP 2x2xAWG22/7 FRNC SHIPFLEX	CM	100
FRNC	Cat.5e	802293	HELUKAT® 100IND Cat.5 WK SF/UTP 2x2xAWG22/7 X-FRNC FLEX	AWM 21281	100
		805702	HELUKAT® 100IND Cat.5 SF/UTP 2x2xAWG26/7 PUR	AWM 21576	100
PUR		800068	HELUKAT® 200IND Cat.5e SF/UTP 4x2xAWG26/7 PUR ROBUSTFLEX	AWM 21576	200
PVC	Cat.6	805655	HELUKAT® 250IND Cat.6 CMG SF/UTP 4x2xAWG 24/1 PVC	CMG	250
		805681	HELUKAT® 250IND Cat.6 AWM SF/UTP 4x2xAWG 24/1 PVC	AWM 2571	250
		803693	HELUKAT® 500IND Cat.6A SK SF/FTP 4x2xAWG 22/1 PVC	CMG	500
FRNC	Cat.6a	11007776	HELUKAT® 500IND Cat.6A S/FTP 4x2xAWG22/1 PVC	CMG, AWM 21694	500
		11007777	HELUKAT® 500IND Cat.6A S/FTP 4x2xAWG22/1 FRNC	CM	500
PUR		11007778	HELUKAT® 500IND Cat.6A S/FTP 4x2xAWG22/1 PUR	CMX, AWM 21238	500
FRNC	Cat.7 Cat.7e Cat.7a	11007775	HELUKAT® 600IND Cat.7e S/FTP 4x2xAWG 23/1 FRNC	AWM 21143	1200
		801197	HELUKAT® 600IND Cat.7e S/FTP 4x2xAWG 23/1 PUR	AWM 21238	1200
		803815	HELUKAT® 600IND Cat.7e S/FTP 4x2xAWG 23/1 PUR	AWM 21238	1200
		805680	HELUKAT® 1200IND Cat.7A S/FTP 4x2xAWG 23/1 PUR	AWM 20549	1200
		802184	HELUKAT® 600IND Cat.7 S/FTP 4x2xAWG 26/7 PUR ROBUSTFLEX	AWM 20963	600
		805684	HELUKAT® 1000IND Cat.7a S/FTP 4x2xAWG 26/7 PUR ROBUSTFLEX	AWM 21238	1000
PVC	SPE	11017748	HELUKAT® SPE Type A 10 BASE T1L 1x2xAWG18/1 PVC	AWM 21179	20
		11019820	HELUKAT® SPE Type A 10 BASE T1L 1x2xAWG18/7 PVC	AWM 21179	20
		11023764	HELUKAT® SPE Type A 10 BASE T1L 1x2xAWG16/7 PVC	AWM 21179	20
		11022604	HELUKAT® SPE Hybrid Type B 1000BASE-T1 1x2xAWG26/7 + 4xAWG16 PUR	AWM 21233	600

ACC. TO UL/CSA - HIGHLY FLEXIBLE

Sheath material	Category	Part no.	Product name	Additional information, properties	Frequency range (MHz)
PVC	Cat.5 Cat.5e	802914	HELUKAT® PROFinet C Cat.5e SF/UTP 2x2xAWG22/7 PVC	drag chain, AWM 21694, CMG	100
		803295	HELUKAT® PROFinet B Cat.5e SF/UTP 2x2xAWG22/7 PVC	FESTOON, AWM 21694	100
82838		HELUKAT® 100S ECO Cat.5 SF/UTP 4x1xAWG26/19 PUR	drag chain, AWM 20963	155	
82839		HELUKAT® 100S ECO Cat.5e SF/UTP 4x2xAWG26/19 PUR	drag chain, AWM 20963	155	
11007779		HELUKAT® 100S ECO Cat.5e SF/UTP 4x2xAWG26/19 PUR	drag chain, AWM 21576	155	
800067		HELUKAT® 100T Cat.5 SF/UTP 4x2xAWG 26/19 PUR	Torsion, AWM 21161	100	
800655		HELUKAT® PROFinet C Cat.5e SF/UTP 2x2xAWG22/7 PUR	drag chain, CMX	100	
802186		HELUKAT® 100 Cat.5e S/UTP 2x2xAWG22/19 PUR	Torsion, AWM 21161	100	
11007800		HELUKAT® PROFinet R Cat.5e SF/UTP 2x2xAWG22/19 PUR	robot, AWM 21209	100	
804767		HMCB800 Industrial Ethernet 2x2x0,20 + 1x2x0,38 PUR	drag chain, AWM 20236	100	
PVC	Cat.6 Cat.6a	805658	HELUKAT® 250S Cat.6 SF/UTP 4x2xAWG24/7 PVC	drag chain, CMG	250
805704		HELUKAT® 500S Cat.6A SF/FTP 4x2xAWG24/7 PVC	drag chain, CM	500	
803387		HELUKAT® 250S Cat.6 SF/UTP 4x2xAWG26/19 PUR	drag chain, AWM 21576, CMX	250	
805548		HELUKAT® 500S SLIM Cat.6A SF/FTP 4x2xAWG26/7 PUR	drag chain, AWM 21576, CMX	500	
805703		HELUKAT® 500S Cat.6A SF/FTP 4x2xAWG24/7 PUR	drag chain, AWM 21576, CMX	500	
PUR	Cat.7	805614	HELUKAT® 600S Cat.7 SF/FTP 4x2xAWG24/7 PUR	drag chain, AWM 20960, CMX	600
		805828	HELUKAT® 600T Cat.7 SF/FTP 4x2xAWG24/7 PUR	Torsion, AWM 20960, CMX	600
PUR	SPE	11018067	HELUKAT® SPE 1000Base-T1 highflex 1x2xAWG26/19 PUR	drag chain, AWM 21223	600
		11018068	HELUKAT® SPE 1000Base-T1 highflex 1x2xAWG22/19 PUR	drag chain, AWM 21223	600
		11019818	HELUKAT® SPE 1000Base-T1 highflex 1x2xAWG26/19 PUR	robot, AWM 21223	600

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

	Operating temperature range	Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	-40°C to +80°C	4	0.32	green		●		●		●	●
	-40°C to +80°C	4	0.34	green		●		●		●	●
	-40°C to +80°C	4	0.32	green		●		●		●	●
	-40°C to +80°C	4	0.34	green		●		●		●	●
	-20°C to +60°C	4	0.22	green						●	
	0°C to +60°C	6	0.22 / 0.38	green						●	
	-30°C to +70°C	8	0.34 / 1.5	green		●		●		●	
	-25°C to +75°C	4	0.32	green			●	●		●	●
	-25°C to +75°C	4	0.34	green			●	●		●	●
	-25°C to +75°C	4	0.34	green		●	●	●		●	●
	-40°C to +105°C	4	0.34	black		●	●	●		●	
	-30°C to +70°C	4	0.14	blue		●	●	●		●	
	-20°C to +50°C	8	0.14	grey		●	●	●		●	●
	-40°C to +80°C	8	0.25	green				●		●	●
	-40°C to +80°C	8	0.25	green				●		●	
	-40°C to +80°C	8	0.32	green				●		●	●
	-30°C to +80°C	8	0.32	green				●		●	●
	-25°C to +80°C	8	0.32	green			●				●
	-40°C to +80°C	8	0.32	green		●	●	●		●	
	-40°C to +80°C	8	0.25	green			●	●			
	-40°C to +80°C	8	0.25	green		●	●	●		●	
	-40°C to +80°C	8	0.25	red		●	●	●		●	
	-40°C to +80°C	8	0.25	green		●	●	●		●	
	-40°C to +80°C	8	0.14	green		●	●	●		●	
	-40°C to +80°C	8	0.14	green		●	●	●		●	
	-30°C to +80°C	2	0.82	black				●		●	
	-30°C to +80°C	2	0.9	black				●		●	
	-30°C to +80°C	2	1.44	black				●		●	
	-20°C to +90°C	6	0.14 / 1.31	black			●	●		●	

Highly flexible cables for continuous movement, such as drag chains

	Operating temperature range	Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	-10°C to +70°C	4	0.34	green				●		●	●
	-10°C to +80°C	4	0.34	green				●		●	
	-30°C to +60°C	4	0.15	green		●	●	●		●	
	-30°C to +60°C	8	0.15	green		●	●	●		●	
	-30°C to +60°C	8	0.15	green		●	●	●		●	
	-30°C to +70°C	8	0.15	green		●	●	●		●	
	-30°C to +75°C	4	0.34	green		●	●	●		●	●
	-30°C to +70°C	4	0.38	green		●	●	●		●	
	-30°C to +90°C	4	0.38	green		●	●	●		●	
	-20°C to +60°C	6	0.2 / 0.38	green		●	●			●	
	-25°C to +80°C	8	0.23	green				●		●	
	-10°C to +70°C	8	0.23	green						●	
	-30°C to +70°C	8	0.15	green		●	●	●		●	
	-20°C to +60°C	8	0.14	green		●	●	●		●	
	-20°C to +60°C	8	0.23	green		●	●			●	
	-30°C to +70°C	8	0.23	green		●	●	●		●	
	-30°C to +70°C	8	0.23	green		●	●	●		●	
	-20°C to +60°C	2	0.15	green		●	●	●		●	
	-20°C to +60°C	2	1.38	green		●	●	●		●	
	-20°C to +60°C	2	0.15	green		●	●	●		●	

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the **red numbers** with the part no. listed in the table)

Bus Cables

Sheath material	Part no.	Product name	Additional information, properties	Bus system
PVC	805705	Profibus high temperature 1x2x0.64mm PVC +150°C		Profibus
FRNC	802178	Profibus L2 Shipline 1x2x0.64mm X-FRNC		Profibus
	805706	Profibus high temperature 1x2x0.64mm FRNC +200°C		Profibus
	805657	Profibus SK/ FIP 7-wire 1x2x0.64 FRNC		Profibus
	800651	SafetyBUS 3x0.75qmm FRNC		SafetyBUS
	805445	HELUCOM® AT-V(ZN)H(ZN)BH 2 G50/125 bk 2 OM2		PROFINet + Profibus
	805687	HELUCOM® AT-V(ZN)H(ZN)BH 4 E9/125 bk ITU-T G652.d		PROFINet + Profibus
PUR	81186	Profibus L2 1x2x0.64mm PUR		Profibus
	81203	I-Bus long distance bus, drag chain 3x2x0.25qmm PUR		Interbus
	82696	I-Bus Insta-long distance bus drag chain 3x2x0.25qmm +3x1.0qmm PUR		Interbus
TPE	801846	A-Bus 2x1.5qmm yellow TPE		AS Interface
	801847	A-Bus 2x1.5qmm black TPE		AS Interface
PE	80792	Profibus L2 outside 1x2x0.64mm PE		Profibus
	82824	Profibus L2 Erd 1x2x0.64mm PVC/PE		Profibus
	802177	Profibus L2 Erd-armoured 1x2x0.64mm PVC/PE		Profibus
	81904	Profibus SK outside 1x2x0.64mm PE		Profibus
	804268	CAN Bus direct burial 1x2x0.5qmm PE		CAN Bus
	804269	CAN Bus direct burial 4x1x0.5qmm PE		CAN Bus
FEP	802179	Profibus high temperature 1x2x0.64mm FEP +180°		Profibus
	80824	A-Bus 2x1.5qmm yellow EPDM		AS Interface
	80825	A-Bus 2x1.5qmm black EPDM		AS Interface
	804408	A-Bus Long Distance 2x2.5qmm yellow EPDM		AS Interface
	804409	A-Bus Long Distance 2x2.5qmm black EPDM		AS Interface

HIGHLY FLEXIBLE

Sheath material	Part no.	Product name	Additional information, properties	Bus system
PUR	80267	Profibus 1x2x0.65mm PUR	Drag chain	Profibus
	81003	Profibus 1x2x0.65mm PUR	Drag chain	Profibus
	81911	CAN-BUS 1X2X0.25 PUR	Drag chain	CAN Bus
	81912	CAN-BUS 4X1X0.25 PUR	Drag chain	CAN Bus
	81611	HELUCOM® POF I-V2Y11Y 1P 980/1000 PUR	Drag chain	DESINA
	80629	HELUCOM® POF I-V2Y11Y 2P 980/1000 PUR	Drag chain	DESINA
	802101	HELUCOM® POF I-V(ZN)11Y 4Y2P980/1000 PUR	Drag chain	PROFINet
	805838	HELUCOM® POF I-V(ZN)11Y 4Y2P980/1000 PUR	Drag chain	PROFINet
	805690	HELUCOM® AT-W(ZN)Y(ZN)11Y 2 G50/125µm OM2 PUR	Drag chain	PROFINet

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

	Impedance (Ohm)	Operating temperature range	Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	150	-40°C to +105°C	2	0.34	violet						●	
	150	-25°C to +80°C	2	0.38	violet		●	●	●		●	
	150	-50°C to +200°C	2	0.34	black			●			●	
	150	-20°C to +70°C	2	0.22	violet			●			●	
	110	-25°C to +80°C	3	0.75	yellow			●			●	
	Fibre Optic	-30°C to +70°C	2	–	black			●	●	●	●	
	Fibre Optic	-40°C to +80°C	4	–	black			●	●	●	●	
	150	-40°C to +70°C	2	0.34	petrol		●	●			●	
	100	-20°C to +70°C	6	0.25	pastel turquoise		●	●			●	
	100	-20°C to +70°C	11	0.25 / 1.0	pastel turquoise		●	●			●	
	–	-40°C to +105°C	2	1.5	yellow		●				●	
	–	-40°C to +105°C	2	1.5	black		●		●		●	
	150	-40°C to +70°C	2	0.34	black			●	●	●		
	150	-40°C to +80°C	2	0.34	black				●	●		
	150	-40°C to +80°C	2	0.34	black				●	●		
	150	-20°C to +70°C	2	0.34	black				●	●		
	120	-40°C to +70°C	2	0.5	black				●	●		
	120	-40°C to +70°C	4	0.5	black				●	●		
	150	-50°C to +180°C	2	0.34	violet		●		●	●	●	
	–	-40°C to +85°C	2	1.5	yellow		●	●				
	–	-40°C to +85°C	2	1.5	black		●	●	●			
	–	-40°C to +85°C	2	2.5	yellow		●	●				
	–	-40°C to +85°C	2	2.5	black		●	●	●			

Highly flexible cables for continuous movement, such as drag chains

	Impedance (Ohm)	Operating temperature range	Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	150	-30°C to +70°C	2	0.25	violet		●	●			●	
	150	-30°C to +70°C	2	0.25	petrol		●	●			●	
	120	-30°C to +70°C	2	0.25	violet		●	●				
	120	-30°C to +70°C	4	0.25	violet		●	●				
	Fibre Optic	-20°C to +70°C	1	–	violet		●	●			●	
	Fibre Optic	-20°C to +70°C	2	–	violet		●	●			●	
	Fibre Optic	-20°C to +70°C	2	–	red		●	●	●			
	Fibre Optic	-30°C to +70°C	2	–	green		●	●	●		●	
	Fibre Optic	-40°C to +80°C	2	–	green		●		●	●		

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the **red numbers** with the part no. listed in the table)

Bus Cables

ACC. TO UL/CSA

Sheath material	Part no.	Product name	Additional information, properties	Bus system
PVC	80384	Profibus L2 1x2x0.64mm PVC	CMX	Profibus
	81448	Profibus L2 1x2x0.64mm PVC	CMX	Profibus
	81903	Profibus SK 1x2x0.64mm PVC	CMG, AWM 21694	Profibus
	800648	Profibus L2/ FIP 7-wire 1x2x0.64 PVC	AWM 2571	Profibus
	805656	Profibus SK/ FIP 7-wire 1x2x0.64 PVC	CMG	Profibus
	81286	CAN Bus 1x2x0.22qmm PVC	AWM 2571	CAN Bus
	81287	CAN Bus 4x1x0.22qmm PVC	AWM 2571	CAN Bus
	82509	CAN Bus 2x2x0.22qmm PVC	AWM 2571	CAN Bus
	801572	CAN Bus 1x2x0.34qmm PVC	AWM 2571	CAN Bus
	801573	CAN Bus 4x1x0.34qmm PVC	AWM 2571	CAN Bus
	803344	CAN Bus 2x2x0.34qmm PVC	CMX	CAN Bus
	800571	CAN Bus 1x2x0.5qmm PVC	AWM 2571	CAN Bus
	800685	CAN Bus 4x1x0.5qmm PVC	AWM 2571	CAN Bus
	803722	CAN Bus 2x2x0.5qmm PVC	CMX	CAN Bus
	803383	CAN Bus 1x2x0.75qmm PVC	AWM 2571	CAN Bus
	803384	CAN Bus 4x1x0.75qmm PVC	AWM 2571	CAN Bus
	11024857	CAN-BUS 1x2xAWG22/7+AWG22/7 PVC	AWM 2464	CAN Bus
	800683	DeviceNet™ Thick 1x2xAWG18 + 1x2xAWG15 PVC	CMG	DeviceNet™
	800684	DeviceNet™ Thin 1x2xAWG24 + 1x2xAWG22 PVC	CMG	DeviceNet™
	80778	I-Bus Fernbus 3x2x0.22qmm PVC	AWM 2571	Interbus
	81202	I-Bus Insta-Fernbus 3x2x0.22qmm + 3x1.0qmm PVC	AWM 2571	Interbus
	11017918	A-Bus 2x1.5qmm yellow PVC	CMG, AWM 2095	AS Interface
	11017919	A-Bus 2x1.5qmm black PVC	CMG, AWM 2095	AS Interface
	803354	FF-BUS Basic 1x2x1+1x0.8 + gn-ye Type A	CMG, AWM 20201	FOUNDATION™ Fieldbus
	800497	CC-Link Bus 3x0.5qmm PVC	CM	CC-Link
FRNC	81501	Profibus SK 1x2x0.64mm FRNC	CM	Profibus
	800681	DeviceNet™ Thick 1x2xAWG18 + 1x2xAWG15 FRNC	CMG	Profibus
	800682	DeviceNet™ Thin 1x2xAWG24 + 1x2xAWG22 FRNC	CMG	PROFINet + Profibus
PUR	81905	Profibus SK 1x2x0.64mm PUR	AWM 20236	Profibus
	801982	CAN-BUS 2x2x0.25qmm PUR 105°C	AWM 21223	CAN Bus
	82434	A-Bus 2x1.5qmm yellow PUR	AWM 20549	AS Interface
	82822	A-Bus 2x1.5qmm black PUR	AWM 20549	AS Interface
	804410	A-Bus 2x2.5qmm yellow PUR	AWM 20549	AS Interface
	804411	A-Bus 2x2.5qmm black PUR	AWM 20549	AS Interface
	81909	DeviceNet™ Thick 1x2xAWG18 + 1x2xAWG15 PUR	CMX	DeviceNet™
	81910	DeviceNet™ Thin 1x2xAWG24 + 1x2xAWG22 PUR	CMX	DeviceNet™
TPE	805693	A-Bus 2x1.5qmm yellow TPE	CMG	AS Interface
	805694	A-Bus 2x1.5qmm black TPE	CMG	AS Interface

ACC. TO UL/CSA - HIGHLY FLEXIBLE

Sheath material	Part no.	Product name	Additional information, properties	Bus system
PVC	800649	Profibus L2 FESTOON 1x2x0.65 PVC	CM, AWM 21694, festoon application	Profibus
	81906	Profibus SK drag chain 1x2x0.65 PUR	CMX, drag chain	Profibus
	801659	Profibus SK drag chain 1x2x0.65 PUR	CMX, drag chain	Profibus
	800109	Profibus L2 Torsion 1x2x0.8mm PUR	CMX, Torsion	Profibus
	82913	Profibus ET200X 1x2x0.65 + 3x0.75qmm PUR	AWM 21184, drag chain	Profibus
	800044	Profibus ECOFAST 1x2x0.65 + 4x1.5qmm PUR	AWM 21198, drag chain	Profibus
	802182	CAN-BUS 1x2x0.34 PUR	CMX, drag chain	CAN Bus
	802339	CAN-BUS 4x1x0.34 PUR	CMX, drag chain	CAN Bus
	805685	CAN-BUS 1x2x0.50 PUR	CMX, drag chain	CAN Bus
	805696	CAN-BUS 4x1x0.50 PUR	CMX, drag chain	CAN Bus
PUR	81909	DeviceNet™ Thick 1x2xAWG18 + 1x2xAWG15 PUR	CMX, drag chain	DeviceNet™
	81910	DeviceNet™ Thin 1x2xAWG24 + 1x2xAWG22 PUR	CMX, drag chain	DeviceNet™
	82434	A-Bus 2x1.5qmm yellow PUR	AWM 20549, drag chain	AS Interface
	82822	A-Bus 2x1.5qmm black PUR	AWM 20549, drag chain	AS Interface
	804410	A-Bus 2x2.5qmm yellow PUR	AWM 20549, drag chain	AS Interface
	804411	A-Bus 2x2.5qmm black PUR	AWM 20549, drag chain	AS Interface
	802469	USB S 2.0 1x2xAWG28 + 1x2xAWG20 PUR	AWM 20963, drag chain	USB 2.0
	802470	USB L 2.0 1x2xAWG24 + 1x2xAWG20 PUR	AWM 20963, drag chain	USB 2.0
	805287	USB 3.0 2x2xAWG28 + 2x2xAWG28 PUR	AWM 20236, drag chain	USB 3.0
	800652	SaftyBUS 3x0.75qmm PUR	CMX, drag chain	SaftyBUS

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Flexible cables for fixed installation or occasional movement

	Impedance (Ohm)	Operating temperature range	Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	150	-40°C to +70°C	2	0.34	grey						●	●
	150	-40°C to +70°C	2	0.34	violet						●	●
	150	-40°C to +80°C	2	0.34	violet				●		●	●
	150	-30°C to +80°C	2	0.22	violet						●	
	150	-40°C to +80°C	2	0.22	violet						●	●
	120	-40°C to +70°C	2	0.22	violet						●	
	120	-40°C to +70°C	4	0.22	violet						●	
	120	-25°C to +70°C	4	0.22	violet						●	
	120	-30°C to +70°C	2	0.34	violet						●	
	120	-30°C to +70°C	4	0.34	violet						●	
	120	-40°C to +70°C	4	0.34	violet						●	●
	120	-40°C to +70°C	2	0.5	violet						●	
	120	-40°C to +70°C	4	0.5	violet						●	
	120	-40°C to +70°C	4	0.5	violet						●	●
	120	-40°C to +70°C	2	0.75	violet						●	
	120	-40°C to +70°C	4	0.75	violet						●	
	120	-30°C to +80°C	3	0.36	black		●		●		●	
	120	-40°C to +80°C	4	0.96 / 1.6	grey		●		●		●	●
	120	-40°C to +80°C	4	0.24 / 0.38	grey		●		●		●	●
	100	-40°C to +70°C	6	0.22	pastel turquoise						●	
	100	-40°C to +70°C	9	0.22 / 1.0	pastel turquoise						●	
	–	-40°C to +90°C	2	1.5	yellow		●				●	●
	–	-40°C to +90°C	2	1.5	black		●		●		●	●
	100	-40°C to +80°C	3	0.88	orange		●		●		●	●
	110	-40°C to +75°C	3	0.5	red		●		●		●	●
	150	-25°C to +70°C	2	0.34	violet			●	●		●	●
	120	-25°C to +80°C	4	0.96 / 1.6	violet			●			●	●
	120	-25°C to +80°C	4	0.24 / 0.38	violet			●			●	●
	150	-40°C to +70°C	2	0.34	violet		●	●	●		●	
	120	-40°C to +105°C	4	0.25	violet		●	●	●		●	
	–	-40°C to +80°C	2	1.5	yellow		●	●			●	
	–	-40°C to +80°C	2	1.5	black		●	●	●		●	
	–	-40°C to +80°C	2	2.5	yellow		●	●			●	
	–	-40°C to +80°C	2	2.5	black		●	●	●		●	
	120	-40°C to +80°C	4	1.0 / 1.6	violet		●	●	●		●	●
	120	-40°C to +80°C	4	0.24 / 0.38	violet		●	●	●		●	●
	–	-40°C to +105°C	2	1.5	yellow		●				●	●
	–	-40°C to +105°C	2	1.5	black		●		●		●	●

Highly flexible cables for continuous movement, such as drag chains

	Impedance (Ohm)	Operating temperature range	Core number	Cross section mm ²	Sheath colour	CPR Class	Oil-resistant	Halogen-free	UV-resistant	Outdoor Installation	Flame-retardant	NFPA
	150	-20°C to +70°C	2	0.25	petrol				●		●	●
	150	-30°C to +70°C	2	0.38	petrol		●		●		●	●
	150	-30°C to +70°C	2	0.38	violet		●		●		●	●
	150	-25°C to +75°C	2	0.38	violet		●	●	●		●	●
	150	-30°C to +70°C	5	0.38 / 0.75	petrol		●	●	●		●	
	150	-30°C to +70°C	6	0.38 / 1.5	violet		●	●	●		●	
	120	-30°C to +70°C	2	0.34	violet		●	●	●		●	●
	120	-30°C to +70°C	4	0.34	violet		●	●	●		●	●
	120	-30°C to +70°C	2	0.5	violet		●	●	●		●	●
	120	-30°C to +70°C	4	0.5	violet		●	●	●		●	●
	120	-40°C to +80°C	4	1.0 / 1.6	violet		●	●	●		●	●
	120	-40°C to +80°C	4	0.24 / 0.38	violet		●	●	●		●	●
	–	-40°C to +80°C	2	1.5	yellow		●	●			●	
	–	-40°C to +80°C	2	1.5	black		●	●	●		●	
	–	-40°C to +80°C	2	2.5	yellow		●	●			●	
	–	-40°C to +80°C	2	2.5	black		●	●	●		●	
	90	-30°C to +70°C	4	0.09 / 0.5	violet		●	●	●		●	
	90	-30°C to +70°C	4	0.24 / 0.6	violet		●		●		●	
	90 / 105	-30°C to +70°C	8	0.09 / 0.09	violet		●	●	●		●	
	110	-30°C to +70°C	3	0.75	yellow		●	●			●	●

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

Cable Glands

Part no.	Product name	Additional information, properties	Thread types	Temperature range
93908	HELUTOP® HT-PA	IP66/IP68-5 bar (30min), with vibration protection	metric/PG/NPT	-20°C to +100°C
	HELUTOP® HT-PA		metric/PG/NPT	-20°C to +100°C
	HELUTOP® HT-PA		metric/PG/NPT	-20°C to +100°C
11024765	HELUTOP® HT-PA RJ45	IP68-5bar(30min), for pre-assembled fibre optic connectors	metric	-20°C to +100°C
	HELUTOP® HT-PA RJ45		metric	-20°C to +100°C
	HELUTOP® HT-PA RJ45		metric	-20°C to +100°C
908054	HELUTOP® Easy	IP66/IP68-5 bar (30min), time and space-saving assembly	without thread	-20°C to +100°C
	HELUTOP® Easy		without thread	-20°C to +100°C
	HELUTOP® Easy		without thread	-20°C to +100°C
90760	HELUTOP® HT-MS	IP66/IP68-5 bar (30min), high mechanical load	metric/PG/NPT	-20°C to +100°C
99980	HELUTOP® HT-E	IP68-5bar (30min), for extreme surroundings	metric/PG	-20°C to +100°C
99950	HELUTOP® HT-MS-EP	IP68-5bar (30min), for screened cables	metric	-20°C to +100°C
905181	HELUTOP® HT-MS-EP4	IP68-5bar (30min), for screened cables	metric	-20°C to +100°C
905957	KVA-XXL-MS	IP68-10 bar, for screened cables	metric	-40°C to +135°C
98257	KVA-XXL-MS-E	IP68-10 bar, for screened cables	metric	-40°C to +135°C
97527	HSK-PVDF	IP68-10 bar, for extreme surroundings	metric/PG/NPT	-35°C to +150°C
97571	HSK-MS-PVDF	IP68-10 bar, for extreme surroundings	metric/PG/NPT	-35°C to +150°C
906990	HELUTOP® HT-AIR-PA	IP66/IP67, with vent system	metric	-20°C to +100°C
	HELUTOP® HT-AIR-PA		metric	-20°C to +100°C
906993	HELUTOP® HT-AIR-MS	IP66/IP67, with vent system	metric	-20°C to +100°C
93867	HELUTOP® HT-K	IP66/IP68-5bar (30min), with kink protection	metric/PG/NPT	-20°C to +100°C
	HELUTOP® HT-K		metric/PG/NPT	-20°C to +100°C
	HELUTOP® HT-K		metric/PG/NPT	-20°C to +100°C
92917	HSK-MS-B	IP68-10bar/IP69K, with kink protection	metric/PG/NPT	-40°C to +100°C
91690	HSK-L	IP54/with additional O-ring at the AG IP68-10bar (30min)/IP69K, long threaded connection	metric	-40°C to +100°C
	HSK-L		metric	-40°C to +100°C
91720	HSK-MS-L	IP68-10bar/IP69K, long threaded connection	metric/PG	-40°C to +100°C
91284	HSK-WI	IP68, angled	metric/PG/NPT	-40°C to +100°C
	HSK-WI		metric/PG/NPT	-40°C to +100°C
90800	KVA-MS	IP68-10bar, with colour-coded insert	metric/PG	-20°C to +105°C
93400	KVA-MFD-MS	IP68-10bar (all cables of the same outer diameter and all holes occupied) with multiple sealing inserts	metric/PG	-20°C to +105°C

For further information, variants and dimensions, see data sheets under: www.helukabel.com/999999en (please replace the red numbers with the part no. listed in the table)

	Cable diameter range (mm)	Material / Colour	CPR Class	Halogen-free	UV-resistant	Outdoor Installation	EMC	UL	Suitable lock nut
	3 to 44	Polyamide / light grey	UL94V2					●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	3 to 44	Poyamide / dark grey	UL94V2					●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	3 to 44	Polyamide / black	UL94V2		●	●		●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	3 to 6	Polyamide / light grey	UL94V2						
	3 to 6	Poyamide / dark grey	UL94V2						
	3 to 6	Polyamide / black	UL94V2		●	●			
	5 to 21	Polyamide / light grey	UL94V2					●	suitable opener (908056)
	5 to 21	Poyamide / dark grey	UL94V2					●	suitable opener (908056)
	5 to 21	Polyamide / black	UL94V2		●			●	suitable opener (908056)
	3 to 55	Brass, nickel plated	UL94V2		●	●		●	KM(90175)
	3 to 44	Stainless steel	UL94V2		●	●		●	KM-INOX(920605)
	3 to 44	Brass, nickel plated	UL94V2		●	●	●	●	KM-EMV(90165)
	3 to 53	Brass, nickel plated	UL94V2		●	●	●	●	KM-EMV(90165)
	42 to 95	Brass, nickel plated			●				KM(98314)
	40 to 70	Brass, nickel plated			●		●		KM-EMV(90165/99875)
	3 to 25	PVDF polyvinylidene fluoride	UL94VO		Long term-●	●		●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	3 to 44	Brass, nickel plated			Long term-●	●		●	KM-INOX(920605)
	4 to 12	Polyamide / light grey	UL94V2					●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	4 to 12	Polyamide / black	UL94V2		●	●		●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	4 to 12	Brass, nickel plated	UL94V2		●	●		●	KM(90175)
	3 to 18	Polyamide / light grey	UL94V2					●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	3 to 18	Poyamide / dark grey	UL94V2					●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	3 to 18	Polyamide / black	UL94V2		●	●		●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	3 to 18	Brass, nickel plated	UL94VO	●	●	●		●	KM(90175)
	3 to 44	Polyamide / light grey	UL94VO	●				●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	3 to 44	Polyamide / black	UL94VO	●	●	●		●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	3 to 44	Brass, nickel plated	UL94VO	●	●	●		●	KM(90175)
	4 to 25	Polyamide / light grey		●				●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	4 to 25	Polyamide / black		●	●	●		●	KMK-PA-OB(94630)/KMK-PA-MB(97816)
	4 to 45	Brass, nickel plated			●	●			KM(90175)/KM90610
	(2)x1 to (2)x15	Brass, nickel plated			●	●			KM(90175)/KM90612

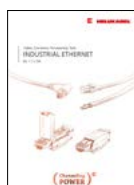
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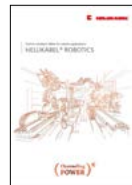
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NOTES

Technical modifications

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Length markings

The length marking, which cannot be calibrated, is an aid, e.g. for easy material allowance determination or for determination of the length remaining on the drum. Deviation of the wire length shown by the marking is up to 1%. Incomplete length markings or length markings missing from sections, deviations of the cable length shown by the length marking do not substantiate any legal obligation whatsoever. Only use calibrated measurement devices to determine wire length.

Safety notice

The cables and wires described in the catalogue are produced in accordance with national and international standards, as well as plant standards; application safety, as stipulated in the safety directives, standards, and statutory regulations, as amended, are provided. Following proper installation and usage guidelines, the possibility of product-specific dangers can be excluded. This catalogue describes general information for each product's use. Independent of the above, the applicable DIN VDE specifications apply. Installation and processing must only be executed by qualified electricians.

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Our product experts are available to answer your questions and provide customised solutions:

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