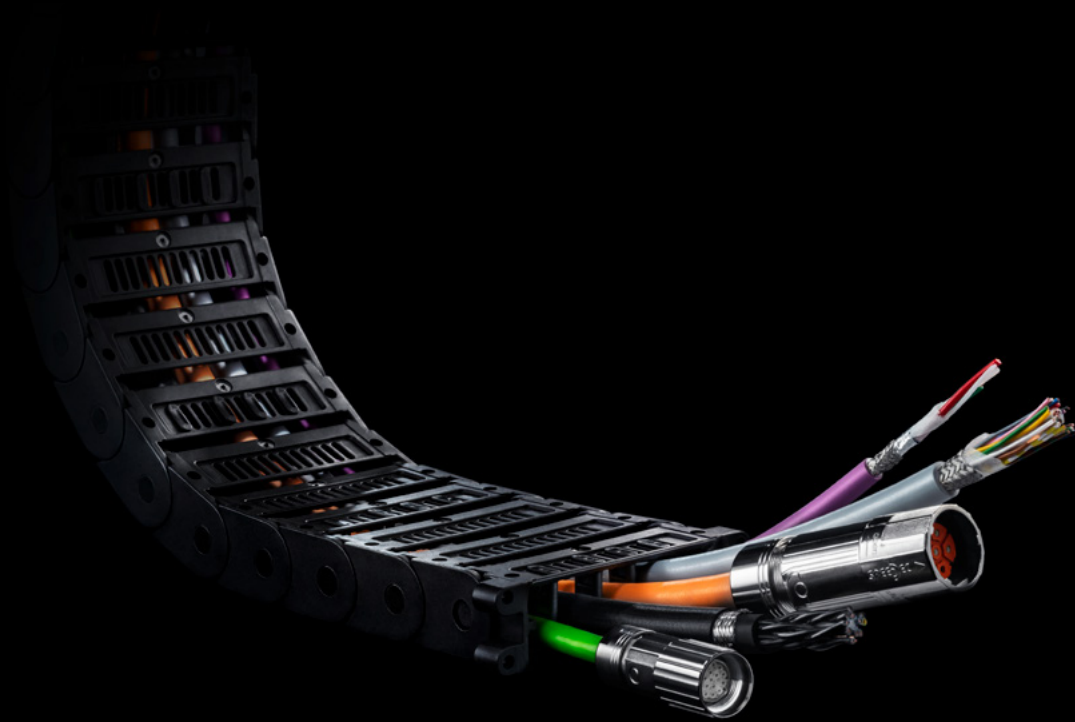


HELUCHAIN® SOLUTIONS

CHANNELING POWER IN MOTION

Ed. 1.0 // EN



**(Channeling
POWER)** 

HELUKABEL - Who We Are

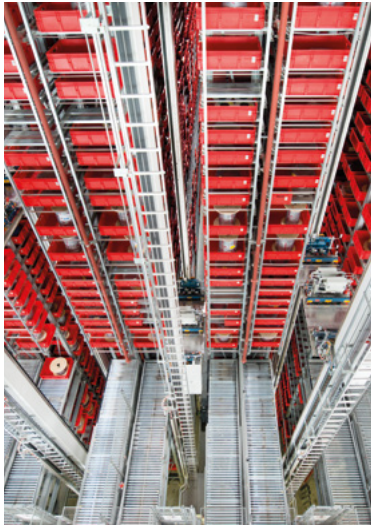
We stand for global quality, innovation, and reliability in the area of electrical technology. As a leading international manufacturer and supplier, we offer a comprehensive portfolio of cables, wires, accessories, plastic, steel, and hybrid drag chains, as well as custom, pre-assembled, and installation-ready system solutions.

Since our founding in 1978, our family-owned business has garnered broad expertise, in-depth know-how, and a strong market position over the decades through our passion and foresight. Our products and solutions are used in applications in varying industries and key technologies, including mechanical

and plant engineering, industry automation, the oil, gas, and chemical industries, building technology, infrastructure, mobility, and renewable energy.

With 71 locations and around 2,500 employees in 42 countries, we are a reliable partner able to quickly and flexibly react to the needs of our customers. Our customers benefit from our extensive assortment of over 33,000 stock parts, a highly modern logistics centres, and our ability to develop, custom solutions. We are committed to supplying the highest-quality electrical connection technology globally from a single source.





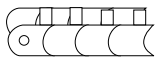
Content

	Page
Solutions for flexible applications	4
Drag chain portfolio	8
Cables for drag chains	12
Assembly solutions	22
Solutions for industrial automation	27

Our solutions for flexible applications

HELUCHAIN® PRODUCT PORTFOLIO – EVERYTHING FROM A SINGLE SOURCE

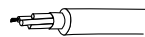
HELUCHAIN® Drag chains



Solutions for all common motion types in different environments

- Plastic
- Hybrid
- Steel

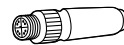
HELUCHAIN® Cables



Mechanical durability in different kinds of cables

- Control cables
- Motor cables
- Servo and hybrid cables
- Data cables
- Encoder and feedback cables
- Bus cables
- Measurement system cables
- Fibre-optic cables

HELUCHAIN® Assemblies



Pre-assembled cables, 100% tested

- Assemblies for drive systems
- Assembly for bus technology
- Customised assemblies

HELUCHAIN® SYSTEM - Channeling Power in Motion

High-quality, individual components combined to create a complete solution.

At HELUKABEL, we are your go-to contact for custom connection solutions that exhibit flexibility, quality and efficiency for the full package. With us, you will not just find individual components, but also completely integrated systems that perfectly combine cables, drag chains, assemblies, and accessories. Our solutions exemplify our innovation, precision, and decades of experience in meeting the most challenging demands of every application.

We are the only company in the industry that produces our components, cables, drag chains, and assemblies in their own factories. This enables us to guarantee the highest quality and reliability, and that individual components fit perfectly together, even for installation-ready systems.

Our mission: To reduce complexity and make connecting easier. A central contact providing solutions from a single source means that projects are realised quicker and smoother.

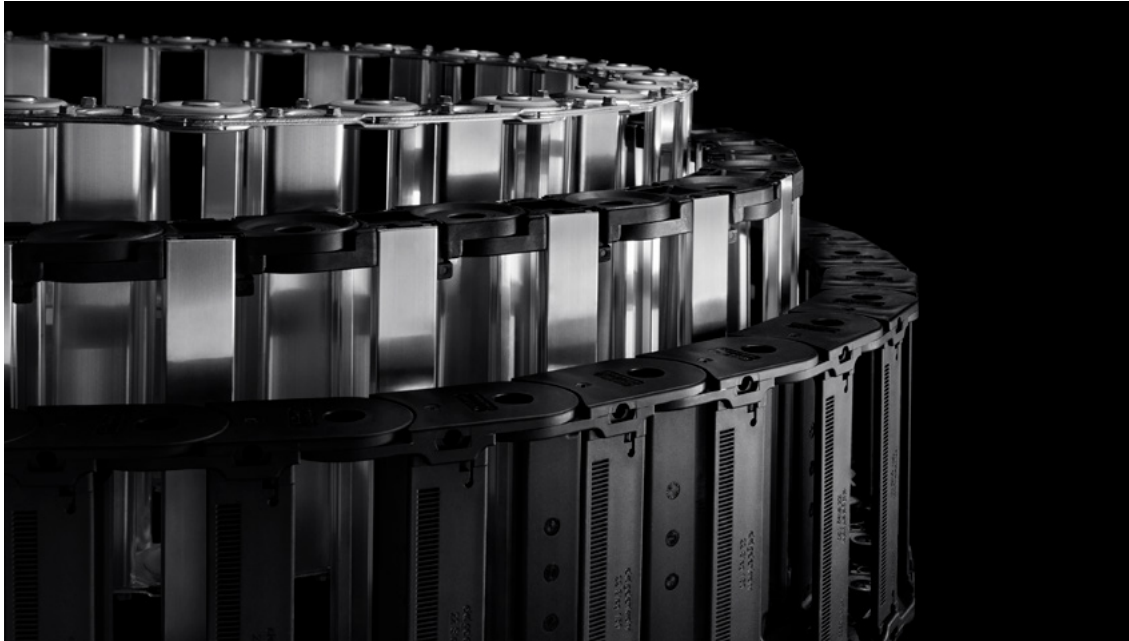
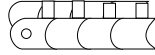
What sets us apart

- **All components from a single source and perfectly matched.** HELUKABEL combines individual components to make complete systems for every connection. We provide additional options that are both custom and flexible for the customer.
- **Our own factories and testing centres.** Our products and systems are manufactured in our own factories, are tested according to the strictest standards, and provide customers with long-lasting performance, even under the most extreme conditions.
- **Time savings through plug-and-play solutions.** Pre-assembled, optimally tuned systems simplify the installation process and minimise the potential for errors. This speeds up the installation process and reduces operational costs.
- **Global availability and local contact.** With a modern logistics network, we are able to ensure quick delivery times and, with subsidiaries around the globe, we are always nearby for personal consultations and timely support.
- **Solutions that bridge industries.** Our products and solutions are found in use in automation, cranes, tooling machines, and the packaging and timber industries.
- **Future-oriented, sustainable systems.** Our products and manufacturing processes are environmentally friendly and designed to conserve resources. Our long-lasting, durable solutions support our partners in achieving their sustainability goals, as well.

At HELUKABEL, we strive not only to provide connection technology but also to simplify processes, solve challenges, and create sustainable value. We support you from planning to implementation – ensuring connections that are more flexible, reliable, and future-proof.

Our solutions for flexible applications

HELUCHAIN® Drag chains



For the past 50 years, we have specialised in the production of custom plastic, hybrid, and steel drag chains for a variety of requirements. From the design to the installation of a finished product, you will receive perfectly tailored solutions that combine cables, chains, and accessories. Our portfolio includes free-standing chains for short travel distances, gliding products, and rolling designs for larger distances and maximal additional loads. Special gliding shoes reduce wear and trough systems offer reliable guidance for chains.

Our mission: to set connections in motion. Our drag chains stand for flexibility in implementation, smooth operation, perfect protection for cables, and for maximum efficiency in all applications.



What sets the area of drag chains apart

- **Highest quality and reliability.** Our drag chains are made of high-quality materials, are tested according to strict standards, and are durable and reliable under even the most extreme conditions. Thanks to our higher manufacturing depth and modern production capacities, we are able to supply customers with custom solutions ranging from one-off to large-scale productions, always adhering to the highest standards of quality.
- **Custom solutions for demanding applications.** Every application is unique. Our extensive portfolio of plastic, hybrid, and steel drag chains means we have custom options for specific industries and needs from robotics and automation to heavy and offshore industries.
- **Applications that span industries.** Our drag chains are suited for applications in tooling machines, material handling and hoisting technology, paper and textile machines, outdoor crane systems, or the offshore industry.
- **Quick delivery times and comprehensive service on location.** With our global logistics network and modern production capacities, we guarantee quick delivery times, making us your ideal partner for time-sensitive projects. From the selection and planning of an ideal solution to its installation and operationalisation on site, our systems are available globally with reliable service.

Our drag chain portfolio

PLASTIC

Light and versatile solution for mechanical engineering. Due to their production method, these drag chains are inexpensive and quick to manufacture.

HELUCHAIN® PLASTIC LINK 1-PF

Applications:

Tooling and woodworking machines

Your advantages:

- Positive interlocking bars for more stability with high torque
- Quick and easy bar installation and removal
- Easily adjustable length
- Closed design for increased protection against shavings



HELUCHAIN® PLASTIC LINK 2-KL

Applications:

Handling and conveyor technology,
paper and textile machines

Your advantages:

- Easier opening mechanism on both sides
- Usable without a connecting element
- Variable inner separations
- Dividers can be quickly exchanged
- High torsional rigidity



HELUCHAIN® PLASTIC LINK 4-PK

Applications:

Robotics, handling technology, tooling and wood working machines

Your advantages:

- Positive interlocking bars for more stability with high torque
- Quick and easy bar installation and removal
- Easily adjustable length
- Optional multi-band solution for increased stability
- Mounting bar for larger media tubing



HELUCHAIN® PLASTIC LINK 4-45

Applications:

General mechanical engineering, intralogistics, material handling, indoor cranes, packaging technology

Your advantages:

- Increased lifespan of the filling thanks to smooth contour of chain and inner separations
- Bars are quick and easy to open for easy installation
- Sidebands with tongue and groove joints for increased stability in tight travel distances
- Quiet operation thanks to optimised stop system



HYBRID

The combination of robust plastic bands and aluminium stays is particularly suitable for large drag chain widths. The chains are available in combination with the Marathon gutter system for long travel distances.

HELUCHAIN® HYBRID LINK 4-PL

Applications:

Tooling machines, handling technology, conveyor and hoisting technology

Your advantages:

- Form-fitting locking bars for the highest stability
- Quick and easy configuration by opening in inner and outer radius
- Quick and easy bar installation and removal
- Up to 1,000 mm bar lengths without gradation
- Long travel distances



Trough system for long travel distances

Applications:

Indoor and outdoor crane systems, material handling, and 7-axis robots

Your advantages:

- Made of aluminium and steel
- Top-hat rail mounting profile for easy alignment
- Slide rails for direct mounting
- Simple alignment due to centring pins
- Cable routing tray for uneven surfaces



STEEL

Highest mechanical strength and temperature resistance in harsh environments.

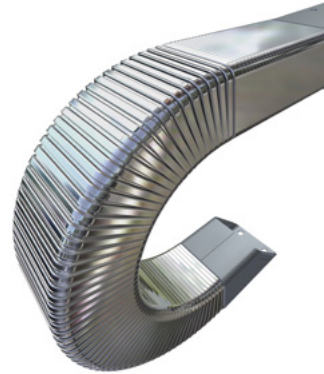
HELUCHAIN® STEEL LINK 1-SF

Applications:

Tooling and specialised machines with short travel distances and low repetitions

Your advantages:

- Closed steel body with built-in spring-steel strip
- Large usable cross sections with small external dimensions
- Optimal cable protection
- Available with different connection options
- Optimal for hot chips, welding beads, and flying sparks



HELUCHAIN® STEEL LINK 4-SL

Applications:

Tooling machines, handling technology, conveyor and hoisting technology, steel mills, boring industry

Your advantages:

- Available in steel, stainless steel, and hardened versions
- Large, self-supported lengths and high fill weights possible
- Many variations of bar separations
- Easily adjustable length
- Hinge mechanism protected by cover



HELUCHAIN® STEEL LINK 4-GK

Applications:

Rolling mills, offshore plants, large tooling machines

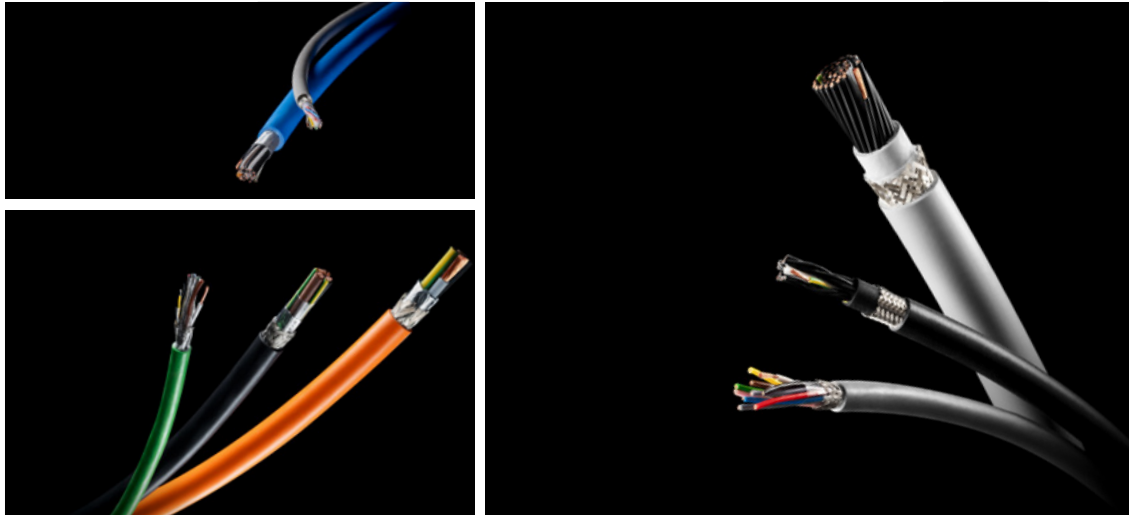
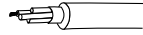
Your advantages:

- Exceptionally high stability
- Large, self-supported lengths up to 18 m with high cable volumes
- Variable arrangement of interior
- Bar lengths up to 1,200 mm possible
- Also available in stainless steel and in custom versions



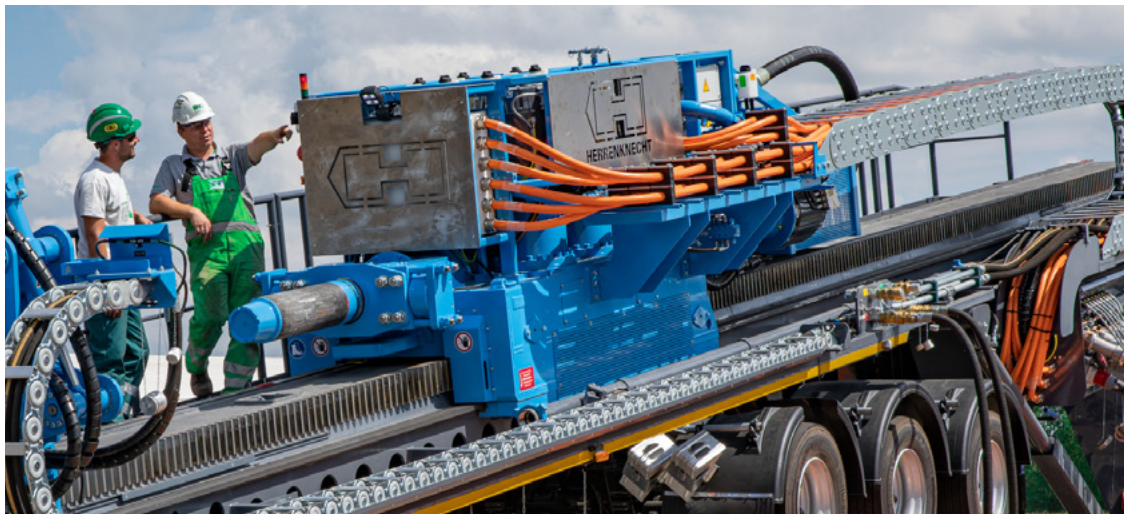
Our solutions for flexible drag chain applications

HELUCHAIN® Cables



In demanding industrial environments, cables must do more than transmit electricity or signals; they must endure extreme loads without compromising reliability. Our drag chain cables are specially designed to meet the demands of such dynamic applications. Whether in fast-moving tooling machines with tight assembly spaces or in harbours with long travel distances, each application has individual demands regarding materials, construction, and function.

Our cables set themselves apart through their high quality, backed by decades worth of expertise. They are manufactured according to the most modern technical standards and rigorously tested in our own factories and testing centres. We offer customers tailor-made solutions that make no compromises in quality, durability, or cost effectiveness. Whether with or without a plug, with us, you will find the perfect solution for every application.











Your advantages at a glance

- **Extensive product portfolio:** Different performance levels based on travel distance and radius allow for optimal solutions in regard to durability.
- **Three different outer sheath materials:** With PVC, PUR, TPE, we make economical solutions for customer applications possible.
- **Highest quality:** Our specially optimised designs and compounds are manufactured in our own factories and tested in state-of-the-art test centres.
- **Technological competence:** We offer decades of experience in cable manufacturing combined with a knack for innovation and high manufacturing depth.
- **International certifications:** Our products comply with international standards such as UL/CSA or NFPA79 and can be used around the world.
- **Global reach, local availability:** Our state-of-the-art logistics systems and local warehouse facilities provide quick deliveries and worldwide product availability.

HELUCHAIN® CABLES

Data cables









HELUKABEL® SUPERTRONIC®-PVC 5x0,25 QMM / 49564 350 V C E







Cable name	Sheath material	Bending factor xd	Max. travel distance m	Core count	Area of cross section mm²	UL/CSA	QR code OLS
SUPERTRONIC®-PVC	PVC	5	5	2 - 25	0,14 - 0,34		
SUPERTRONIC®-C-PVC	PVC	7,5	5	2 - 25	0,14 - 0,34		
SUPERTRONIC®-310-PVC	PVC	5	5	2 - 25	0,14 - 0,34	x	
SUPERTRONIC®-310-C-PVC	PVC	7,5	5	2 - 25	0,14 - 0,34	x	
TRONIC 320-HF-TP-C-PVC UL/CSA	PVC	7,5	15	2 - 28	0,14 - 1	x	
SUPERTRONIC®-330-PURö	PUR	5	15	2 - 25	0,14 - 0,34	x	
SUPERTRONIC®-330-C-PURö	PUR	7,5	15	2 - 25	0,14 - 0,34	x	
SUPER-PAAR-TRONIC 340-C-PUR	PUR	10	30	2 - 28	0,25 - 1	x	

Control cables









HELUKABEL® JZ-HF 2500,75 QMM / 15030 300/500 V C €

Cable name	Sheath material	Bending factor xd	Max. travel distance m	Core count	Area of cross section mm²	UL/CSA	QR code OLS
JZ-HF	PVC	7,5	10	2 - 65	0,5 - 16		
JZ-HF-CY	PVC	10	10	2 - 65	0,5 - 16		
JZ-602 RC	PVC	7,5	10	3 - 34	0,5 - 35	x	
JZ-602 RC-CY	PVC	10	10	3 - 34	0,5 - 35	x	
MULTISPEED® 520-PVC UL/CSA	PVC	6,8	100	2 - 42	0,5 - 6	x	
MULTISPEED® 520-C-PVC UL/CSA	PVC	6,8	100	2 - 42	0,5 - 6	x	
PURö-JZ-HF	PUR	7,5	15	2 - 65	0,5 - 95		
PURö-JZ-HF-YCP/YDP	PUR	10	15	2 - 65	0,5 - 16		

Cable name	Sheath material	Bending factor xd	Max. travel distance m	Core count	Area of cross section mm²	UL/CSA	QR code OLS
MULTIFLEX 512®-PUR UL/CSA	PUR	5	100	2 - 65	0,5 - 16	x	
MULTIFLEX 512®-C-PUR UL/CSA	PUR	7,5	100	2 - 65	0,5 - 16	x	
MULTISPEED® 521-PUR UL/CSA	PUR	6,8	450	2 - 42	0,5 - 6	x	
MULTISPEED® 521-C-PUR UL/CSA	PUR	6,8	450	2 - 42	0,5 - 6	x	
MULTISPEED® 522-TPE UL/CSA	TPE	5	450	2 - 42	0,5 - 6	x	
MULTISPEED® 522-C-TPE C UL/CSA	TPE	5	450	2 - 42	0,5 - 6	x	







Motor cables



Cable name	Sheath material	Bending factor xd	Max. travel distance m	Core count	Area of cross section mm²	UL/CSA	QR code OLS
MULTISPEED® PWR 520-PVC UL/CSA	PVC	7,5	100	4 - 5	10 - 35	x	
MULTISPEED® PWR 520-C-PVC UL/CSA	PVC	7,5	100	4 - 5	10 - 35	x	
MULTISPEED® PWR 521-PUR UL/CSA	PUR	7,5	450	4 - 5	10 - 35	x	
MULTISPEED® PWR 521-C-PUR UL/CSA	PUR	7,5	450	4 - 5	10 - 35	x	
MULTISPEED® PWR 522-TPE UL/CSA	TPE	7,5	450	4 - 5	10 - 35	x	
MULTISPEED® PWR 522-C-TPE C UL/CSA	TPE	7,5	450	4 - 5	10 - 35	x	

Single cores







Cable name	Sheath material	Bending factor xd	Max. travel distance m	Core count	Area of cross section mm²	UL/CSA	QR code OLS
Single 602-RC	PVC	7,5	5	1	10 - 300	x	
Single 602-RC-CY	PVC	7,5	5	1	10 - 300	x	
MULTISPEED® 600-PUR	PUR	5	450	1	6 - 300	x	
MULTISPEED® 600-C-PUR	PUR	5	450	1	6 - 300	x	
KOMPOSPEED® 600	TPE	5	100	1	6 - 185		
KOMPOSPEED® 600-C	TPE	7,5	100	1	6 - 240		

Servo and hybrid cables




HELUKABEL® TOPSERV® 109 PUR 0,6/1 kV E170315 UL/CSA DESINA CEE

Cable name	Sheath material	Bending factor xd	Max. travel distance m	Core count	Area of cross section mm²	UL/CSA	QR code OLS
TOPSERV® 109 PUR	PUR	7,5	30	4	1,5 - 95	x	
TOPSERV® 113 PUR	PUR	7,5	30	6	1,5 - 50	x	
TOPSERV® 121 PUR	PUR	7,5	30	8	1,0 - 50	x	
TOPSERV® Hybrid PUR	PUR	7,5	30	8	0,5 - 16	x	

Measurement system cables










HELUKABEL® TOPGEBER 512 PUR E170315 10 AWG DESINA CEE

Cable name	Sheath material	Bending factor xd	Max. travel distance m	Core count	Area of cross section mm²	UL/CSA	QR code OLS
TOPGEBER® 512 PUR	PUR	10	30	18	0,14 - 1,0	x	



Bus cables



Cable name	Sheath material	Bending factor xd	Max. travel distance m	Core count	Area of cross section mm²	UL/CSA	QR code OLS
HELUKAT® 600S Cat 7 PUR UL	PUR	15	50	4x2x	AWG24/7	x	
HELUKAT® 500S Cat 6A PUR UL	PUR	10	50	4x2x	AWG26/7	x	
PROFInet Typ C Cat 5 PUR UL	PUR	12	50	2x2x	AWG22/7	x	
PROFIBUS SK PUR UL	PUR	12,5	50	2	0,65	x	
CAN BUS PUR UL	PUR	15	50	2	0,5	x	
DeviceNet™ PUR UL	PUR	15	50	4	AWG24 / AWG22	x	
AS-Interface PUR UL	PUR	10	50	2	2,5	x	

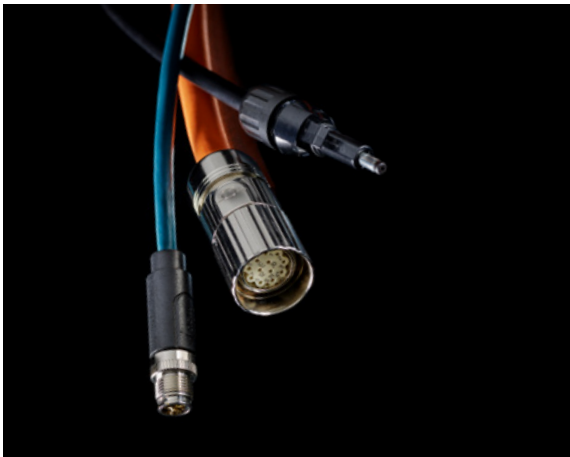
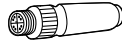
Fibre optic cables



Cable name	Sheath material	Bending factor xd	Max. travel distance m	Core count	Area of cross section mm²	UL/CSA	QR code OLS
HELUCOM® A-V(ZN)11Y	PUR	15	100	2-8	9 / 50 / 62,5		
HELUCOM® I-V2Y(ZN)11Y	PE	12,5	100	2	980		

Our assembly solutions for flexible applications

HELUCHAIN® Assemblies



In modern industry, precise and reliable cable assemblies are indispensable in ensuring smooth and efficient workflows. At HELUKABEL, we offer individual cable assemblies and installation modules that are perfectly tuned for your specific needs. From planning to realisation, we are by your side as a key partner to assist in the smooth and efficient execution of your project.

With our modular manufacturing concept and global presence, we combine maximum flexibility with state-of-the-art manufacturing standards. Our flexible processes make not only quick production times possible, but also a high degree of flexibility regarding customer requests.



What sets our cable assemblies apart

- **Individual solutions:** Thanks to our expansive portfolio of motor, encoder, and data cables, we are able to offer both standard and individual solutions – even down to customer-specific labels and packaging.
- **Efficiency through automation:** Highly precise and reproducible workmanship thanks to state-of-the-art machines including automatic cutting, stripping, and winding.
- **Flexibility & availability:** Automated warehousing enables fast access times and the highest delivery security, which is ideal for time-sensitive projects.
- **High standards for quality:** We perform tests on all assemblies, high-voltage tests, crimp & pull tests, and finishings for maximum safety and traceability. Certified according to DIN ISO 9001:2015 & UL.
- **Sustainability:** Our commitment to sustainability is evidenced by our sustainable production methods, environmentally friendly packaging, and consistent, single-origin waste separation, for example.

Drive technology assemblies

As a leading international manufacturer and supplier of electrical connection technology, we also specialise in pre-assembled cables for drive technology. We have solutions for all common drive systems from various OEMs in our portfolio - starting at one metre lengths, with short lead times and in common PVC and PUR qualities.

STANDOUTS FROM OUR STANDARD PORTFOLIO

TOPSERV® CONNECTING SYSTEMS

PVC Siemens 5DN06

According to Siemens standard 6FX5002,
PVC sheathed cable with UL/CSA, 100,000 bending cycles,
PVC flame retardant

Part no. 17004711



TOPGEBER® CONNECTING SYSTEMS

PVC Siemens 2EQ10

According to Siemens standard 6FX5002,
PVC sheathed cable with UL/CSA, 100,000 bending cycles,
PVC flame retardant

Part no. 17008068



TOPSERV® Hybrid CONNECTING SYSTEMS

PUR Siemens 8QN04

According to Siemens standard 6FX8002,
drag chain cable with UL/CSA, 5 million bending cycles,
PUR sheath, halogen-free

Part no. 17005185

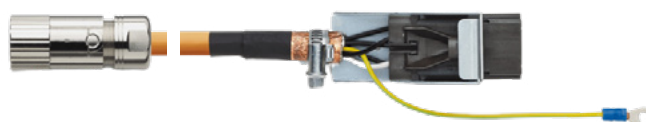


TOPSERV® CONNECTING SYSTEMS

PUR Siemens 5DS01

According to Siemens standard 6FX8002, drag chain cable
with UL/CSA, 5 million bending cycles, PUR sheath,
halogen-free

Part no. 17008067



TOPGEBER® CONNECTING SYSTEMS

PUR Siemens 2DC10

According to Siemens standard 6FX8002, drag chain
cable with UL/CSA, 5 million bending cycles, PUR sheath,
halogen-free

Part no. 661156



Assemblies for bus technology

Industrial Ethernet HELUKAT® 200 IND SF/UTP

Kat.5e 4x2xAWG26/7, with PUR sheath
for flexible use, with RJ45 plug on both sides
(see part no. 800068 for further technical data)



PROFinet C

2x2xAWG22/7, with PUR sheath for drag chains,
UL CMX 75°C, with plug M12 d-coded straight
or angled (see part no. 80065 for
further technical data)



Discover our extensive assemblies in bus technology here.

Custom cable assemblies

Some constructions require special cables where standard solutions won't do. We create custom cable assemblies for your individual case. We plan and produce a large number of customer-specific special solutions. This includes:

- Modified standard cables for, e.g., high mechanical loads.
- System-agnostic cable assemblies
- Special cables when components from different manufacturers must be combined
- In order to also be able to offer optimal solutions for very challenging applications, such as those with very high or low environmental temperatures or, for example, aggressive environmental conditions, we work intensively with the research and development departments of our cable factories and plug manufacturers.

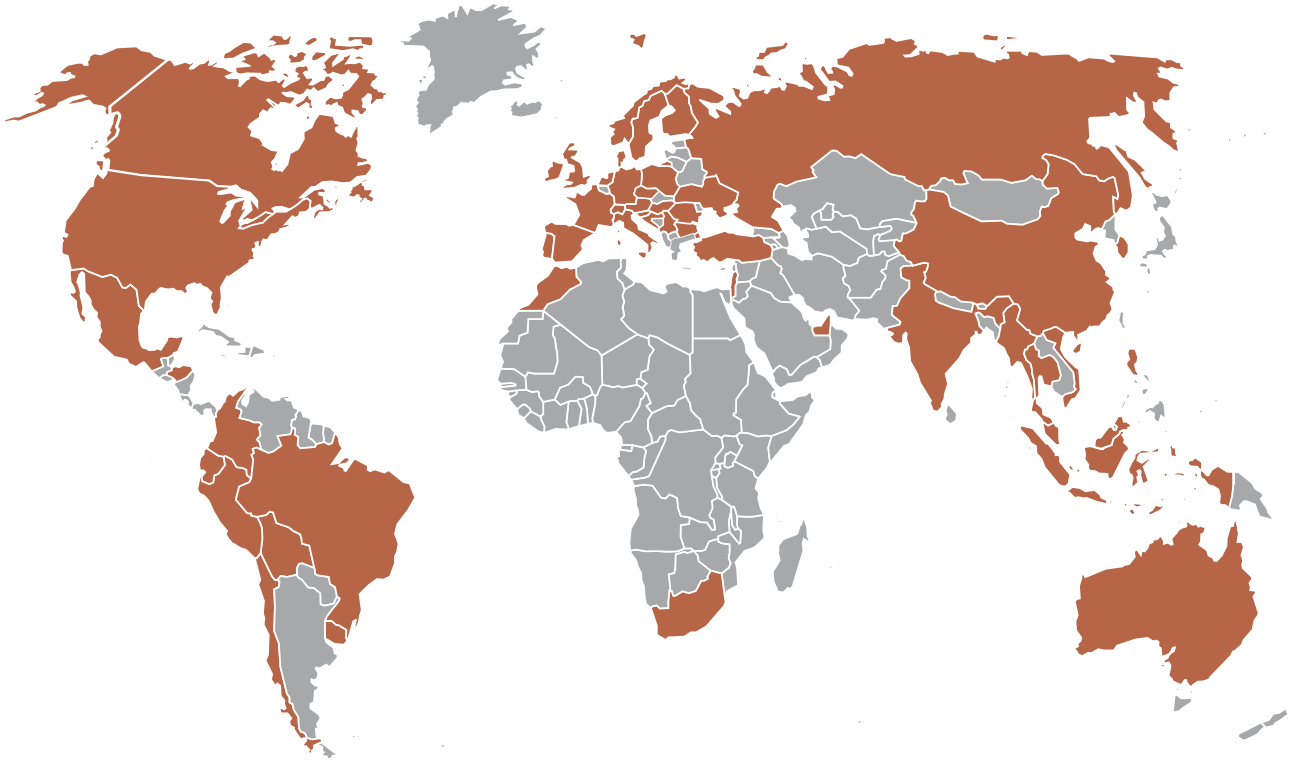
Your advantages:

- The quality of mass production in custom products
- UL/CSA certified
- CAD-supported construction
- Individual support on site

Our services:

- All kinds of drive, field bus, and control cables
- Delivery via plug oder terminal box
- Commissioned as a set or individual cables
- Actuator/sensor plugs, heavy connectors or round plugs
- Pneumatics - for expanded systems

Global representation



Learn more about our global locations

Contact

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

Your contact for sytem solutions



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**(Channeling
POWER)** 