Innovations 2025

Autumn

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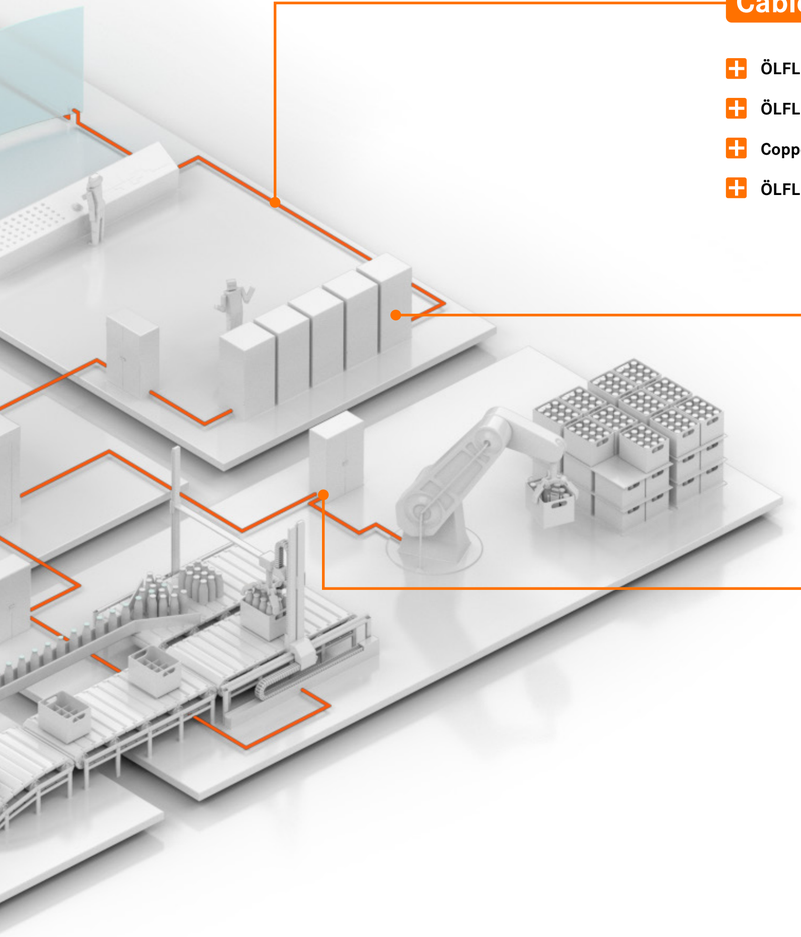
Product Expansion

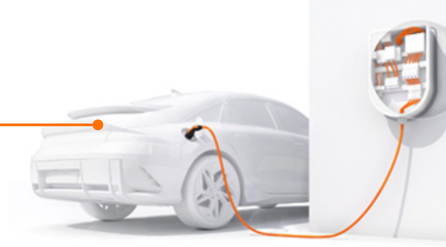


Cables

Cable assemblies

Cable glands

eMobility



LAPP

Cables

Connecting cable and control cable

NEW

Click or scan - more information about the product online

ÖLFLEX® SERVO zeroCM

EMC-optimised motor cable with zeroCM® technology, up to 60% less leakage current, almost double the installation length, PVC outer sheath, with UL approval.

Benefits

- The zeroCM® technology with a completely electrical symmetrical cable design has proven to reduce leakage currents by up to 60% compared to conventional motor cables.
- Low-capacitance core insulation for long transmission paths.
- Faster and error-free connection with just one instead of three protective earth conductors.
- Reduces EMC interference at the frequency converter and thus enables almost double installation lengths.
- Future-proof for future drive generations with higher cycle frequencies.
- UL/CSA certification according to technical data enables the product to be used in the North American market.
- Operating voltage of 1000 V according to UL, permitted for North America.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.

Application ranges

- For connecting frequency converters and motors.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For fixed installation and occasional movement without tensile strain.
- Can be used in dry, damp and wet spaces.
- Suitable for medium mechanical stress.
- PVC outer sheath is resistant to acids and alkalis and has increased oil resistance.
- Suitable for outdoor use, subject to the temperature range.

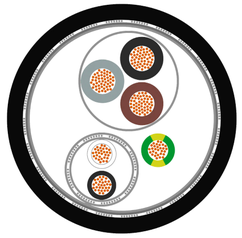
Technical data

Nominal voltage	U_0/U: 0,6/1 kV AC rms according to IEC
Rated voltage	1000 V AC rms according to UL AWM / 1000 V AC rms according to cRU AWM
Test voltage	4 kV
Conductor material	Bare copper
Conductor design	IEC 60228 class 5: fine-wire
Core insulation base material	Polypropylene (PP)
Base material of outer sheath	Polyvinylchloride (PVC)
Cable sheath colour	black (RAL 9005)
Core identification	Alphanumeric
Application area	Fixed installation / Flexible
Minimum bending radius, fixed installation	6 x outer diameter
Minimum bending radius, occasionally moved	15 x outer diameter
Temperature, fixed installation	-40 °C to 80 °C according to IEC / to 90 °C according to UL AWM / to 90 °C according to CSA AWM
Temperature, occasionally moved	-5 °C to 70 °C according to IEC / to 90 °C according to UL AWM / to 90 °C according to CSA AWM
Flame retardance according to	IEC 60332-1-2 / UL VW-1 / CSA FT1

Cables

Connecting cable and control cable

NEW



Click or scan - more information about the product online

ÖLFLEX® SERVO 718 CH zeroCM

Halogen-free, highly flame-retardant servo cable for increased fire protection, EMC-optimised with zeroCM® technology, up to 60% less leakage current, almost double the installation length.

Benefits

- Halogen-free and highly flame retardant materials reduce the risk of flame propagation, high smoke density and toxic smoke in the event of a fire.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.
- The zeroCM® technology with a completely electrical symmetrical cable design has proven to reduce leakage currents by up to 60% compared to conventional motor cables.
- Low-capacitance core insulation for long transmission paths.
- Reduces EMC interference at the frequency converter and thus enables almost double installation lengths.
- Future-proof for future drive generations with higher cycle frequencies.

Application ranges

- For connecting frequency converters and servo motors.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For fixed installation and occasional movement without tensile strain.
- Can be used in dry and damp spaces.
- Suitable for medium mechanical stress.
- Suitable for outdoor use, subject to the temperature range.
- Flexible use at temperatures down to -15°C.

Technical data

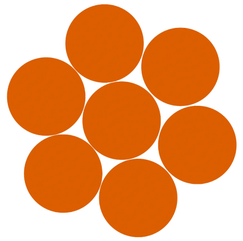
Nominal voltage	U_0/U: 0,6/1 kV AC rms according to IEC
Test voltage	4 kV
Conductor material	Bare copper
Conductor design	IEC 60228 class 5: fine-wire
Core insulation base material	Polypropylene (PP)
Base material of outer sheath	Polyurethane (PUR)
Cable sheath colour	black (RAL 9005)
Core identification	Colours
Core colour code	VDE 0293-308
Application area	Flexible / Fixed installation
Minimum bending radius, fixed installation	6 x outer diameter
Minimum bending radius, occasionally moved	15 x outer diameter
Temperature, fixed installation	-40 °C to 90 °C according to IEC
Temperature, occasionally moved	-15 °C to 90 °C according to IEC
Flame retardance according to	IEC 60332-1-2 / IEC 60332-3-24

CE

Cables

Connecting cable and control cable

NEW



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Copper Rope Bare Class 2

Earthing conductor for equipotential bonding, multi-wire, made of bare copper, for use in dry indoor areas.

Benefits

- Bare copper conductor without additional tin coating.
- Higher electrical conductivity and thermal conductivity compared to tinned copper conductors.
- Good mouldability simplifies installation in confined spaces.
- Various conductor cross-sections available.

Application ranges

- For safety-relevant equipotential bonding on machine parts and IT systems.
- For the installation of meshed equipotential bonding systems.
- Can be used in dry rooms.

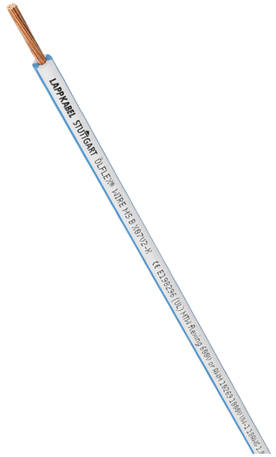
Technical data

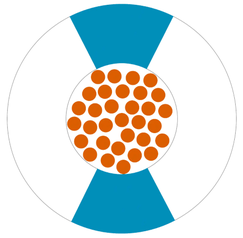
Conductor material	Bare copper
Conductor design	IEC 60228 class 2: multi-wire
Application area	Fixed installation

Cables

Connecting cable and control cable

NEW





Click or scan - more information about the product online

ÖLFLEX® WIRE MS B

Available from 2 February 2026

Single core with multiple certification, bare copper conductor, PVC core insulation, 450/750 V, for use in control cabinets.

Benefits

- Made according to harmonised European type H07V2-K, with ⊲HAR⊳ testing mark for proven reliability and quality (article dependent).
- UL certification according to technical data enables the product to be used on the North American market.
- Product with multiple certifications enables universal use and reduces the variety of parts, thus guaranteeing logistics savings.
- Specially designed for ultrasonic welding: Compared to tinned copper strands, bare copper strands produce stable, tear-resistant welds and are also gentle on tools, as there is no harmful tin abrasion.
- Ideal for automated cable assembly in large volumes.
- Different core insulation colours available.
- Available as ring, on coils or in large disposable cardboard boxes. Large cardboard boxes are available depending on the colour and cross-section and generally only up to 6 mm² conductor cross-section.
- Classified fire behaviour according to EU Directive 305/2011 (BauPVO/CPR) with article number selection on the LAPP website.
- Operating voltage of 1000 V according to UL, permitted for North America.

Application ranges

- For wiring circuits inside machines.
- Suitable for wiring inside control cabinets.
- For wiring light fixtures.
- For fixed and protected installation.
- Can be used in dry and damp spaces.
- Use at temperatures down to -40°C possible.

Technical data

Nominal voltage	U_0/U: 450/750 V AC rms according to IEC
Rated voltage	600 V AC rms according to CSA TEW / 1000 V AC rms according to UL AWM / 600 V AC rms according to UL MTW
Test voltage	2.5 kV
Conductor material	Bare copper
Conductor design	IEC 60228 class 5: fine-wire
Core insulation base material	Polyvinylchloride (PVC)
Application area	Fixed installation
Minimum bending radius, fixed installation	4 x outer diameter
Temperature, fixed installation	to 105 °C according to UL AWM / to 90 °C according to UL MTW / -40 °C to 90 °C according to IEC / to 105 °C according to CSA TEW
Flame retardance according to	IEC 60332-1-2 / UL VW-1 / CSA FT1
Oil resistance according to	UL 1581 paragraph 480 (60°C)
UL AWM certification	10269 according to UL 758 (e-file number: E63634)
UL certification	UL MTW according to UL 1063 (e-file number: E198296)
Product standard DIN / EN	EN 50525-2-31

Cable assemblies

Data cable assemblies

NEW

Click or scan - more information about the product online

Technical data

Application area	Cable chain
Min. number of plug cycles	100
IP protection rating	IP 67
Installation temperature min.	-40 °C - 70 °C

EPIC® ClickConnect M12D

Highly flexible Cat.5e patch cable for data transmission in the PROFINET network, with M12 push-pull connectors (D-coded) and SF/UTP shielding, for use on moving machine parts.

Benefits

- The patch cable assembled on both sides saves time during installation and reduces or eliminates the potential for errors during on-site assembly.
- The two M12 connectors with innovative push-pull locking in accordance with DIN EN IEC 61076-2-010 are plugged in and locked or unlocked completely without tools. Thanks to this technology, there is no need for the labour-intensive screwing that is otherwise required for conventional M12 connections.
- Fast information exchange through Ethernet technology.
- Cat. 5e performance up to 100 Mbit/s.
- Ideal protection against electromagnetic interference thanks to double shielding made of aluminium-laminated foil and copper stranded shielding with high degree of coverage (SF/UTP).
- Halogen-free core insulation and sheath compound to comply with special fire safety requirements.

Application ranges

- For highly flexible, constantly moving use in moving machine parts and in cable chains in the PROFINET network (type C).
- Also suitable for EtherCAT and EtherNet/IP applications.
- Can be used in dry and damp conditions, and especially in harsh and oily spaces.
- The PUR outer sheath and connectors withstand high mechanical stresses.
- The PUR outer sheath is resistant to mineral oil-based lubricants and highly resistant to chemicals.

Cable assemblies

Data cable assemblies

NEW

Click or scan - more information about the product online

EPIC® ClickConnect M12A

Highly flexible PVC patch cable for signal transmission between sensors and actuators at field level, with M12 push-pull connectors (A-coded), for use on moving machine parts.

Benefits

- The patch cable assembled on both sides saves time during installation and reduces or eliminates the potential for errors during on-site assembly.
- The two M12 connectors with innovative push-pull locking in accordance with DIN EN IEC 61076-2-010 are plugged in and locked or unlocked completely without tools. Thanks to this technology, there is no need for the labour-intensive screwing that is otherwise required for conventional M12 connections.

Application ranges

- Can be used universally on machine interfaces for many applications in data and signal transmission.
- Typical application areas are sensors and actuators at field level.
- The cable design allows flexible, continuously moving use in moving machine parts and in cable chains.
- Can be used in dry and damp spaces.
- The PVC outer sheath is resistant to acids and alkalis and has limited oil resistance.

Technical data

Application area	Cable chain
Min. number of plug cycles	100
IP protection rating	IP 67
Installation temperature min.	-25 °C - 80 °C

Cable assemblies

Data cable assemblies

NEW

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EPIC® ClickConnect M12X

Highly flexible Cat.6A patch cables for data transmission via Ethernet, with M12 push-pull connectors (X-coded) and SF/UTP shielding, for use on moving machine parts.

Benefits

- The patch cable assembled on both sides saves time during installation and reduces or eliminates the potential for errors during on-site assembly.
- The two M12 connectors with innovative push-pull locking in accordance with DIN EN IEC 61076-2-010 are plugged in and locked or unlocked completely without tools. Thanks to this technology, there is no need for the labour-intensive screwing that is otherwise required for conventional M12 connections.
- Fast information exchange through Ethernet technology.
- Cat. 6A performance up to 10 Gbit/s.
- Ideal protection against electromagnetic interference thanks to double shielding made of aluminium-laminated foil and copper stranded shielding with high degree of coverage (SF/UTP).
- Halogen-free core insulation and sheath compound to comply with special fire safety requirements.

Application ranges

- The cable design allows flexible, continuously moving use in moving machine parts and in cable chains.
- Also suitable for EtherCAT and EtherNet/IP applications.
- Can be used in dry and damp conditions, and especially in harsh and oily spaces.
- The PUR outer sheath and connectors withstand high mechanical stresses.
- The PUR outer sheath is resistant to mineral oil-based lubricants and highly resistant to chemicals.

Technical data

Application area	Cable chain
Min. number of plug cycles	100
IP protection rating	IP 67
Installation temperature min.	-40 °C - 80 °C

EtherNet/IP

Cable glands

Multi-entry systems

NEW

Click or scan - more information about the product online

SKINTOP® MULTI

Rectangular multiple cable gland, depending on variant for up to 30 cables, with unique elastic gel sealing and large, variable clamping range, protection class IP 68.
What's new? Now also available in four additional variants, which differ from the previous ones in terms of the number of cable entries and cable diameters.

Technical data

Assembly type	screw
Sealing material	Gel
Material body	Polycarbonate
Colour	black (RAL 9005)
IP protection rating	IP 68 - 0.1 bar (60 min) / IP 67 / IP 66
Temperature min.	-30 °C - 110 °C
Flame retardance according to	UL 94 V-2
Fire protection for railway vehicles hazard level	EN 45545-2 HL2

Benefits

- Multi-entry of cables allows a higher packing density (up to 30 cables depending on the variant).
- Large clamping ranges, variable by 4 mm each for different cable diameters.
- Direct cable entry without pre-piercing the bushings thanks to elastic gel technology with innovative membrane technology.
- Clear marking of bushing points and clamping ranges. As a result, there is no potential for errors during cable insertion.
- Flexibility in selecting the cable diameter reduces the variety of parts in the warehouse, generating logistical and cost benefits.
- Easy fitting of the multi-entry to the housing using 4 fastening screws. The adhesive effect of the sealing gel enables the product to be positioned very easily during assembly.
- The best possible sealing for the housing and the cables enables protection class IP 68. Unoccupied bushings remain securely closed and sealed.
- Available in different variants for a wide range of applications.

Application ranges

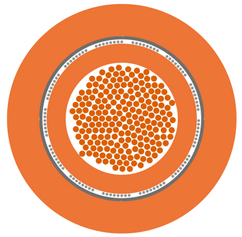
- For sealing and strain relieving multi-entry of unassembled cables and media hoses through a housing.
- Compliant with standards for use in railway vehicles (fire behaviour test according to DIN EN 45545, hazard levels HL1 and HL2).
- Suitable for use in AC and DC charging infrastructures for electromobility.
- Can be used in dry, damp and oily environments.
- Suitable for outdoor use.

CE

eMobility

eMobility cables

NEW



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ÖLFLEX® HV EV

Shielded high-voltage cable for voltages up to 1000 V AC or 1500 V DC and temperatures up to 200 °C, for powerful and safe high-voltage operation.

Benefits

- Single-core high-voltage cable for voltages up to 1000 V AC and 1500 V DC.
- Available with conductor cross-sections from 4.00 - 120.00 mm².
- Core insulation and outer sheath made of a special silicone elastomer compound provide excellent resistance to many chemical substances, oils, high temperatures up to +200 °C and environmental influences such as UV radiation and ozone.
- Halogen-free and flame-retardant materials reduce the risk of flame propagation and high smoke density in the event of a fire.
- Ideal protection against electromagnetic interference thanks to double shielding made of aluminium-laminated foil and copper stranded shielding with a high degree of coverage.

Application ranges

- For use in battery energy storage systems (BESS).
- For cabling of high-voltage batteries, power electronics, electric motors or battery management systems.
- For operating temperatures from -65 °C to +200 °C.

Technical data

Nominal voltage	U_0/U: 1 /1 kV AC rms according to (manufacturer specifications) / U_0/U: 1,5/1,5 kV DC according to (manufacturer specifications)
Cable sheath colour	orange
Minimum bending radius, fixed installation	4 x outer diameter
Temperature, fixed installation	-65 °C to 200 °C
Flame retardance according to	IEC 60332-1-2

CE

eMobility

eMobility charging solutions

NEW

Click or scan - more information about the product online

Mobility Dock Charging station Mode 2 Type 2

Handy, lightweight Mode 2 adapter for charging electric and plug-in hybrid cars using Mode 3 charging cables and Type 2 plugs on household sockets with AC power supply.
What's new? Now also available in other country variants: with Type J power connector for Switzerland and with Type K power connector for Denmark.

Technical data

Nominal voltage	230 V AC rms according to IEC
Housing base material	Polyamide (PA6G25)
Temperature min.	-25 °C - 45 °C

Benefits

- Compact and ergonomic design as well as easy handling, without cable clutter, light and space-saving.
- Functions as an adapter between a Type 2 vehicle connector and a household plug (available as plug type E/F, G, J or K depending on the country variant).
- Can be used flexibly: both on the move and at home. Always and wherever a household socket is within reach.
- Enables charging capacities of up to 2.3 kW and is therefore ideal for charging overnight or at work.
- Maximum safety thanks to a range of integrated monitoring functions (self-test at start, detection of residual current, overcurrent, overvoltage and undervoltage, temperature sensors and much more).
- The charging process starts automatically when requested by the vehicle.
- With rear support to stabilise the appliance against the wall.

Application ranges

- For mobile charging of electric and plug-in hybrid cars with a Mode 3 charging cable and Type 2 plugs at household sockets (AC power supply).
- Also suitable for charging electric motorbikes.
- Suitable for outdoor use, subject to the type of socket and the temperature range.

eMobility

eMobility charging solutions

NEW

Click or scan - more information about the product online

Standard AC Charging cable Mode 3 Type 2

Mode 3 charging cable with Type 2 plugs, for charging electric and plug-in hybrid cars at wall boxes/ charging stations with AC power supply, available in different variants.
What's new? Now also available in other cable lengths and colours as well as different charging capacities.

Benefits

- Available in a wide range of variants: from 3.7 kW to 22 kW, 1-phase or 3-phase.
- Equipped with ergonomic and robust, standardised type 2 plugs on both sides.
- Silver-plated contact surface for low contact resistances and minimum heat generation at the contact.
- Excellent moisture protection thanks to water jet-tight design (protection class IP 55) and additional longitudinal watertightness.
- Fulfils all relevant IEC and EN product requirements.
- Available in black or orange signal colour.

Application ranges

- For charging electric and plug-in hybrid cars with a Type 2 vehicle socket.
- For charging at private wall boxes or public charging stations with AC power supply.
- The PUR outer sheath withstands high mechanical loads.
- The PUR outer sheath is resistant to mineral oil-based lubricants and highly resistant to chemicals.
- Suitable for outdoor use, subject to the temperature range.
- Use at temperatures down to -40°C possible.

Technical data

Conductor design	IEC 60228 class 5: fine-wire
Core insulation base material	Halogen-free compound
Base material of outer sheath	Polyurethane
Cable sheath colour	orange / black
Minimum bending radius, occasionally moved	10 x outer diameter
Temperature min.	-40 °C - 50 °C
Flame retardance according to	IEC 60332-1-2
UV-resistant according to	DIN EN ISO 4892-2 method A
Zero halogen according to	EN 50620

eMobility

eMobility charging solutions

NEW

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Helix AC Charging cable Mode 3 Type 2

Self-winding Mode 3 charging cable with shape memory and Type 2 plugs, for charging electric and plug-in hybrid cars at wall boxes/charging stations with AC power supply.
What's new? Now also available in other cable lengths and colours.

Technical data

Conductor design	IEC 60228 class 5: fine-wire
Cable sheath colour	orange / black
Minimum bending radius, occasionally moved	10 x outer diameter
Temperature min.	-40 °C - 50 °C
Flame retardance according to	IEC 60332-1-2
UV-resistant according to	DIN EN ISO 4892-2 method A
Zero halogen according to	EN 50620

Benefits

- Space-saving and handy: The patented Helix cable is a self-winding charging cable with shape memory that automatically returns to its original shape after charging.
- Available in a wide range of variants: from 3.7 kW to 22 kW, 1-phase or 3-phase.
- Equipped with ergonomic and robust, standardised type 2 plugs on both sides.
- Silver-plated contact surface for low contact resistances and minimum heat generation at the contact.
- Excellent moisture protection thanks to water jet-tight design (protection class IP 55) and additional longitudinal watertightness.
- Fulfils all relevant IEC and EN product requirements.
- Available in black or orange signal colour.

Application ranges

- For charging electric and plug-in hybrid cars with a Type 2 vehicle socket.
- For charging at private wall boxes or public charging stations with AC power supply.
- The PUR outer sheath withstands high mechanical loads.
- The PUR outer sheath is resistant to mineral oil-based lubricants and highly resistant to chemicals.
- Suitable for outdoor use, subject to the temperature range.
- Use at temperatures down to -40°C possible.

eMobility

eMobility charging solutions

NEW

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Double Helix AC Charging cable Mode 3 Type 2

Self-winding Mode 3 charging cable with shape memory (double helix) and Type 2 plugs, for charging electric and plug-in hybrid cars at wall boxes/charging stations with AC power supply.

Technical data

Conductor design	IEC 60228 class 5: fine-wire
Cable sheath colour	orange / black
Minimum bending radius, occasionally moved	10 x outer diameter
Temperature min.	-40 °C - 50 °C
Flame retardance according to	IEC 60332-1-2
UV-resistant according to	DIN EN ISO 4892-2 method A
Zero halogen according to	EN 50620

Benefits

- Space-saving and handy: The patented Helix cable is a self-winding charging cable with shape memory that automatically returns to its original shape after charging.
- The double helix cable even rolls up into two spiral-like rings – especially practical for long charging cables from 7 metres in length.
- Available in a wide range of variants: from 3.7 kW to 22 kW, 1-phase or 3-phase.
- Equipped with ergonomic and robust, standardised type 2 plugs on both sides.
- Silver-plated contact surface for low contact resistances and minimum heat generation at the contact.
- Excellent moisture protection thanks to water jet-tight design (protection class IP 55) and additional longitudinal watertightness.
- Fulfils all relevant IEC and EN product requirements.
- Available in black or orange signal colour.

Application ranges

- For charging electric and plug-in hybrid cars with a Type 2 vehicle socket.
- For charging at private wall boxes or public charging stations with AC power supply.
- The PUR outer sheath withstands high mechanical loads.
- The PUR outer sheath is resistant to mineral oil-based lubricants and highly resistant to chemicals.
- Suitable for outdoor use, subject to the temperature range.
- Use at temperatures down to -40°C possible.

LEGEND

NEW PRODUCT

PRODUCT EXTENSION

PRODUCT CHARACTERISTICS


Suitable for outdoor use


Good chemical resistance


Flame-retardant

Wide clamping range


Halogen-free


Heat-resistant


Cold-resistant


Corrosion-resistant


Maximum vibration protection


Mechanical resistance


Assembly time


Low weight


Oil-resistant


Optimum strain relief


Space requirement


Cable chain


Clean room


Robust


Acid-resistant


Reliability


Integrated SKINTOP® cable gland


Voltage


Connector with standard housing unit


Interference signals

Temperature-resistant


Torsion-resistant


Torsion load

UV-resistant


Waterproof


Variety of approval certifications


Submersible use

Please note:
The purpose of the icons is to provide you with a quick overview and a rough indication of the product features to which the corresponding information relates. You can find details of product characteristics in the “technical data” sections on the product pages.

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Power and control cables

EPIC®
Industrial connectors

UNITRONIC®
Data communication systems

SKINTOP®
Cable glands

ETHERLINE®
Data communication systems
for ETHERNET technology

SILVYN®
Protective cable conduit systems
and cable carrier systems

HITRONIC®
Optical transmission systems

FLEXIMARK®
Marking systems

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