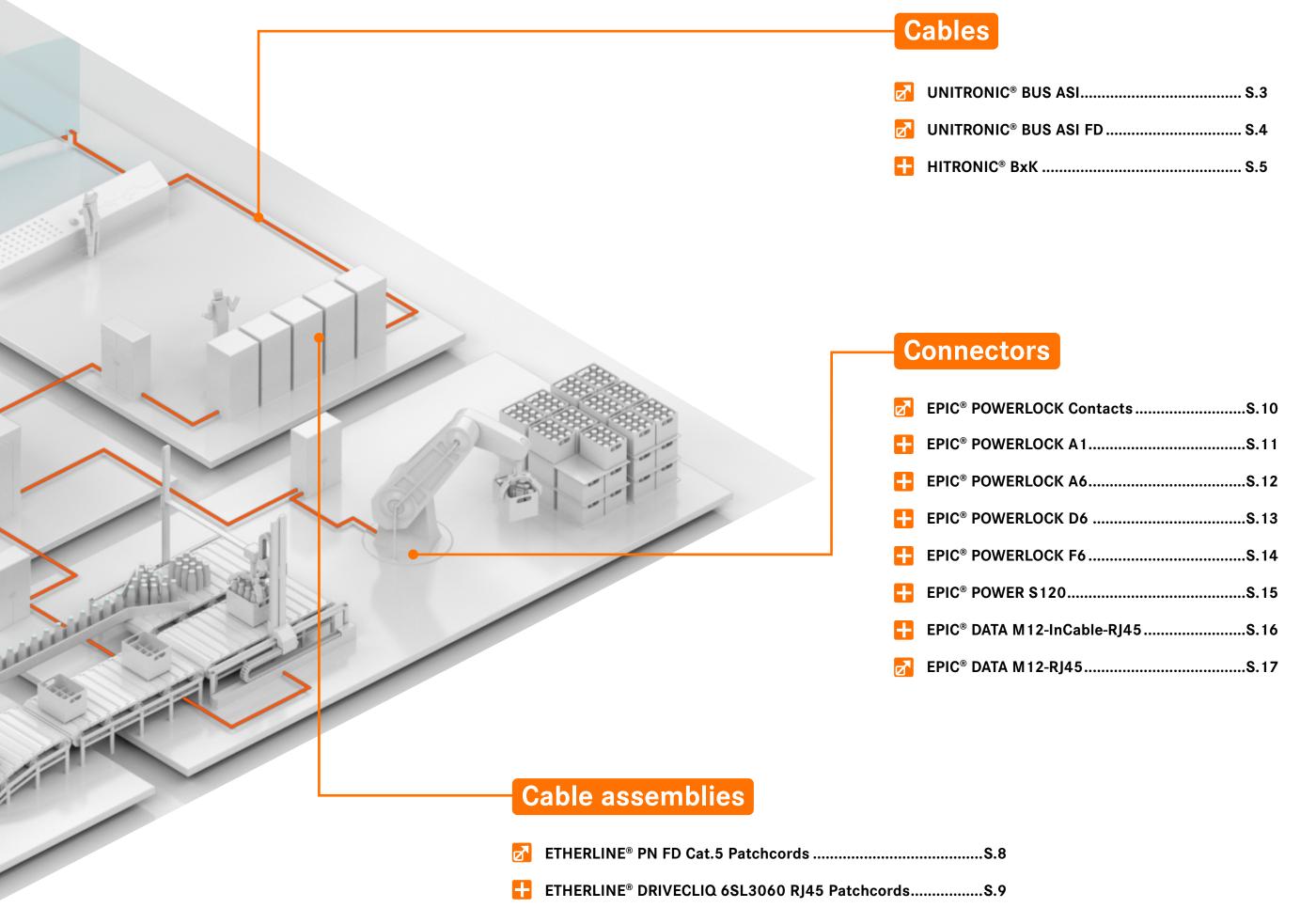
Innovations 2025 Summer







Content Summer 2025



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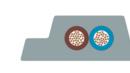




Data cable/wire







Click or scan - more information about the product online





Technical data

Conductor material Core insulation base material

Base material of outer sheath

Cable sheath colour

Core identification Application area Minimum bending radius, fixed installation Minimum bending radius, occasionally moved 6 x outer diameter Temperature, fixed installation

Zero halogen according to

Tin-plated Copper

Rubber / Thermoplastic elastomers (TPE) / Polyvi-

nylchloride (PVC)

Rubber / Thermoplastic elastomers (TPE) / Polyvinylchloride (PVC)

yellow (RAL 1023) / black (RAL 9005) / red (RAL 3000) / grey (RAL 7001)

Colours

Fixed Installation 3 x outer diameter

-40 °C to 85 °C / -40 °C to 80 °C / -30 °C to 90

VDE 0472-815

UNITRONIC® BUS ASI

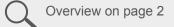
Bus cable; -40 °C to 90 °C; AS-Interface; fixed installation; cable shape: flat

Benefits

- Available in 3 different sheath designs (rubber, TPE, PVC).
- The "G" variant is halogen free.
- The "TPE" version with oil-resistant outer sheath is especially suitable for wet areas in conjunction with water-soluble cooling lubricants.
- Reverse polarity protection technology thanks to geometrically coded cable.
- Yellow cable for simultaneous power and data supply via separate cores for complete data exchange and reduced wiring effort.
- The black cable transmits auxiliary power at 30 V DC; the red cable is suitable for 230 V AC and heavy current. The grey cable is used to supply 48 V DC.
- The "LD" (Long Distance) variant allows modules to be connected even further away and saves additional AS-i power supplies.
- Articles with the suffix "A" in the article name have UL certification in accordance with the technical data and can be used in North America.

- 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.
- Suitable for many applications, depending on the sheath material.
- For fixed installation and occasional flexing without tensile strain.
- Can be used in dry and damp environments.
- Suitable for medium mechanical stress.
- The PVC outer sheath is resistant to acids and alkalis and has limited oil resistance.

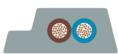






Data cable/wire





LAPP KABEL STUTTGART UNITRONIC® BUS ASI FD

Click or scan - more information about the product online





Technical data

Conductor material
Core insulation base material
Base material of outer sheath

Cable sheath colour

Core identification

Application area

Minimum bending radius, fixed installation

Minimum bending radius, occasionally moved

Temperature, fixed installation

Temperature, dynamic continuously flexing

Flame retardance according to

Zero halogen according to

Oil resistance according to

Cable chain

3 x outer diameter

-40 °C to 80 °C /

-30 °C to 70 °C

IEC 60332-1-2 / U

IEC 60754-1

EN 50363-10-2 / E

UL AWM certification

UL certification

Tin-plated Copper Halogen-free compound Polyurethane (PUR) / Thermoplastic elastomers (TPE) yellow (RAL 1012) / black (RAL 9005) / yellow (RAL 1023) / grey (RAL 7001) Colours Cable chain 3 x outer diameter -40 °C to 80 °C / -40 °C to 105 °C -30 °C to 70 °C IEC 60332-1-2 / UL FT2 IEC 60754-1 EN 50363-10-2 / DIN EN 60811-2-1 / UL 60°C rating according to UL 758 / IEC 60811-2-1 21866 according to UL 758 (CCN: AVLV2 / e-file number: E63634) / 20549 according to UL 758 UL ITC according to UL 758

UNITRONIC® BUS ASI FD

Bus cable; -40 °C to 105 °C; AS-Interface; cable chain; cable shape: flat

Benefits

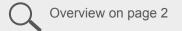
- Particularly oil-resistant and flame retardant.
- The "TPE" version with oil-resistant outer sheath is especially suitable for wet areas in conjunction with water-soluble cooling lubricants.
- Reverse polarity protection technology thanks to geometrically coded cable.
- Yellow cable for simultaneous power and data supply via separate cores for complete data exchange and reduced wiring effort.
- The black cable transmits auxiliary power at 30 V DC; the grey cable transmits auxiliary power at 48 V DC.
- The "LD" (Long Distance) variant allows modules to be connected even further away and saves additional AS-i power supplies.
- Articles with the suffix "A" in the article name have UL certification in accordance with the technical data and can be used in North America.

- 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.
- Suitable for many applications, depending on the sheath material.
- The cable design allows flexible, continuously flexing use in moving machine parts and in the cable chain.
- Can be used in dry and damp environments.
- Suitable for medium mechanical stress.











Data cable/wire







Click or scan - more information about the product online





Technical data

A optical outdoor cable
Base material of outer sheath
Cable sheath colour
Core identification
Application area
Minimum bending radius, fixed installation
Tensile force fixed installation
Tensile force, short-term
Installation temperature min.

A-DQ(ZN)B2Y
Polyethylene (PE)
black (RAL 9005)
Colours
Fixed Installation
10 x outer diameter
1500 N / 2000 N
3000 N / 4000 N
-20 °C - 50 °C

HITRONIC® BxK

GOF; OS2; 8 to 48 fibres; 7.8 mm to 9.5 mm; A-Optical outdoor cables: A-DQ(ZN) B2Y; fixed installation; gel-filled loose tube cable; glass yarns; halogen-free

Benefits

- Due to their high bending insensitivity, single-mode fibers (OS2) according to ITU-T G.657.A1 are ideal for applications where space is limited. They allow tight bends without signal loss and simplify installation.
- Fiber optic cables with glass optical fiber (GOF) have a high data transmission rate and range.
- Easy to handle thanks to flexible and compact design.
- Gel-filled central loose tube ensures longitudinal and transversal watertightness and thus optimum fibre protection.
- With reinforced glass yarn for strain relief and rodent protection.
- The low-friction outer sheath and small bending radii allow cables to be installed by blowing them in with air.
- No electromagnetic interference from non-metallic materials is generated inside the cable.
- Halogen-free sheath compound to meet special fire safety requirements.

- Especially for outdoor use.
- Suitable for WAN networks.
- Typical areas of application include solar and wind farms.
- Can be used in dry, wet and harsh environments.
- Suitable for direct underground installation.
- For fixed installation in ducts and closed installation channels.
- For open installation on cable trays.
- Suitable for medium mechanical stress.
- The PE outer sheath is highly resistant to acids and alkaline solutions.











Data cable/wire





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Technical data

A optical outdoor cable
Base material of outer sheath
Cable sheath colour
Application area
Minimum bending radius, fixed installation
Tensile force fixed installation
Tensile force, short-term
Installation temperature min.

A-DQ(ZN)B2Y
Polyethylene (PE)
black (RAL 9005)
Fixed Installation
10 x outer diameter
3000 N / 4000 N
4000 N / 6000 N
-20 °C - 50 °C

HITRONIC® BTxK

GOF; OS2; 8 to 48 fibres; 8.7 mm to 11.5 mm; A-Optical outdoor cable: A-DQ(ZN) B2Y; fixed installation; increased strain relief; gel-filled loose tube cable; glass yarns; halogen-free

Benefits

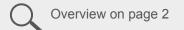
- Due to their high bending insensitivity, single-mode fibers (OS2) according to ITU-T G.657.A1 are ideal for applications where space is limited. They allow tight bends without signal loss and simplify installation.
- Very high strain relief due to reinforced glass yarns.
- Fiber optic cables with glass optical fiber (GOF) have a high data transmission rate and range.
- Easy to handle thanks to flexible and compact design.
- Robust during installation and operation thanks to robust outer jacket. With additional water transport protection in the longitudinal direction after mechanical damage.
- Gel-filled central loose tube ensures longitudinal and transversal watertightness and thus optimum fibre protection.
- The low-friction outer sheath and small bending radii allow cables to be installed by blowing them in with air.
- Halogen-free sheath compound to meet special fire safety requirements.

- Especially for outdoor use.
- Suitable for WAN networks.
- Typical areas of application include solar and wind farms.
- Can be used in dry, wet and harsh environments.
- Suitable for direct underground installation.
- For fixed installation in ducts and closed installation channels.
- For open installation on cable trays.
- Withstands high mechanical stress.
- The PE outer sheath is highly resistant to acids and alkaline solutions.











Connecting cable and control cable



Technical data

Nominal voltage

Test voltage

Conductor material Conductor design

Core insulation base material

Application area

Minimum bending radius, fixed installation Minimum bending radius, occasionally moved 6 x outer diameter

Temperature, fixed installation Temperature, occasionally moved Short-term temperature peak Flame retardance according to UV-resistant according to

Zero halogen according to Oil resistance according to U₀/U: 0,6/1 kV AC rms according to IEC

4 kV

Tin-plated Copper

IEC 60228 class 5: fine-wire

Electron beam cross-linked polymer compound

Fixed Installation 4 x outer diameter

-50 °C to 125 °C -35 °C to 120 °C

145 °C

IEC 60332-1-2

EN ISO 4892-2, method A (colour change permit-

ted)

IEC 60754-1

EN 50290-2-22: TM 54

ÖLFLEX® HEAT 125 SC A

UL single core; 0.34 mm² - 120 mm²; 0.6/1 kV; electron beam cross-linked polymer compound; -35°C - 125°C; fixed installation; ring packaging; various insulation colours

Benefits

- For the protection of people and property.
- Electron beam cross-linked insulating material enables use at low and high temperatures (-50°C to +125°C).
- Halogen free and highly flame retardant materials reduce the risk of flame propagation, high smoke density and toxic flue gases in the event of a fire.
- UL/CSA certification according to technical data enables the product to be used in the North American market.

- For universal use for wiring machine-internal and cross-plant control circuits.
- Typical areas of application are heaters, switchgear, connection boxes, lighting, etc.
- For fixed installation and occasional flexing without tensile strain.
- For laying on, in and under plaster, in tubes and in closed installation ducts.
- Can be used in dry, damp and, especially, harsh and oily environments.
- The electron beam cross-linked polymer compound is highly resistant to oils, fuels, alkalis and acids.
- Use at temperatures down to -50°C possible.

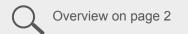








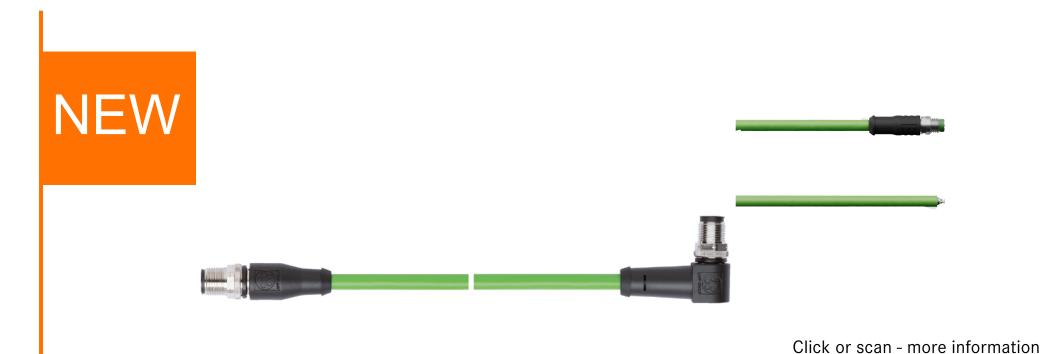






Cable assemblies

Data cable assemblies



about the product online





Technical data

Application area
Min. number of plug cycles
IP protection rating
Installation temperature min.
UL certification
cUL certification

Cable chain

100 / 100 / 100 / 100 / 750 / 750 / 750 / 750

IP 67 / IP 69 / IP 20 / IP 65 / IP 68

-30 °C - 70 °C / -30 °C - 80 °C / -30 °C - 90 °C

according to UL 2238 (e-file number: E249137)

according to CSA C22.2 No. 182.3 (e-file number: E249137)

ETHERLINE® PN FD Cat.5 Patchcords 🔂

Pre-assembled Ethernet cable; 0.3 m to 50 m; different plug combinations. (M12 D-coded and RJ45); cable chain; ETHERNET/IP; PROFINET® type B; Cat.5; SF/UTP; PVC

Benefits

- Optionally available with RJ45, M8D or M12D plug connection. The space-saving M8 plug connector is suitable for PROFINET applications in which M12D plug connectors cannot be used due to limited space.
- Available as a one-sided power cable assembly for flexible selection of the cable length and free choice of further connection.
- Also available as a cable assembled on both sides to save time during installation.
- Fast information exchange through Ethernet technology.
- Cat. 5e performance up to 100 Mbit/s.
- High resistance to electromagnetic interference thanks to star quad stranding as well as double screening made of aluminium-laminated foil and high degree of copper screening braiding (SF/UTP).
- The integrated vibration protection of the connector makes it resistant to shocks and vibrations.
- The angled shape of the connector is suitable for a space-saving cable outlet.
- Halogen free core insulation and sheath compound to meet special fire safety requirements.

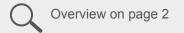
Application ranges

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

EtherNet/IP*



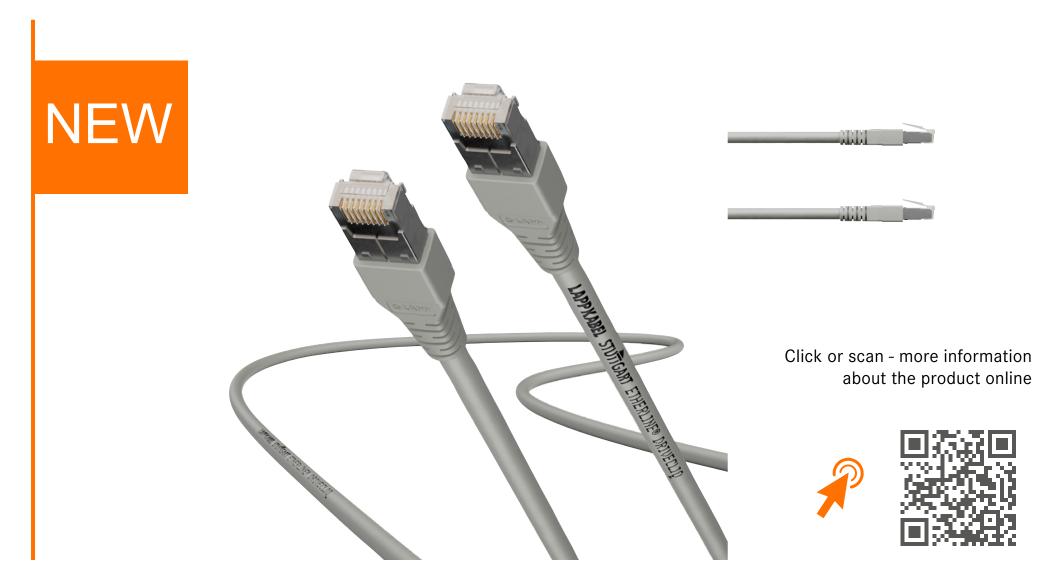






Cable assemblies

Data cable assemblies



Technical data

Cable sheath colour Application area Min. number of plug cycles

grey Flexible 100

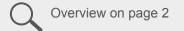
ETHERLINE® DRIVECLIQ 6SL3060 RJ45 patchcords

Pre-assembled Ethernet cable; 0.11 m to 5 m; RJ 45 to RJ 45; flexible; Cat.5e; S/FTP (shielded); PVC; 2x2

Benefits

- The patch cable assembled on both sides saves time during installation and reduces or eliminates the potential for errors during on-site assembly.
- Complies with the open DRIVE-CLiQ® system interface (corresponds to 6SL3060).
- The corrosion-resistant gold coating on the connector contacts ensures low contact resistance and a long product service life.
- Cat. 5e performance up to 100 Mbit/s.
- Ideal protection against electromagnetic interference thanks to copper screening braiding with a high degree of coverage.
- Available in various cable lengths.

- For communication between SIEMENS® SINAMICS control units (PLC) of servo drive systems.
- For fixed installation and occasional flexing.
- Can be used in dry and damp rooms.
- The PVC outer sheath is resistant to acids and alkalis.





Circular connectors







Click or scan - more information about the product online





Technical data

Assembly type screw

Conductor connection type
Crimp termination / Screw connection / Thread for cable lug /

Axial screw connection

Copper alloy / Brass Material contact

Contact material, short form CuZn

Material contact surface Silver-plated (Ag)

Colour silver







EPIC® POWERLOCK Contacts

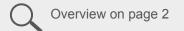
Contact; source / sink; crimp termination / screw termination; conductor crosssection 35 mm² - 240 mm²; silver-plated copper

Benefits

- Easy to service screw connection enables assembly without special tools.
- Crimp termination creates a vibration-proof connection, provides maximum contact protection between the contact and cable and is suitable for automated assembly.
- Axial screw termination technology allows servicefriendly connection without a special crimping tool, saves costs and is suitable for detachable connections.
- Screw contacts are suitable for conductor crosssections up to 120 mm². For smaller conductor crosssections up to 50 mm², a reducer must be used to gradually reduce the diameter.
- Crimp contacts are suitable for conductor crosssections of 35 - 240 mm².
- Axial screw contacts are suitable for conductor crosssections of 50 - 240 mm².
- M12 threaded post contact for tube cable lug contact. Contact drain for use with type A1; contact source for use with design type A6 (depending on application either screw or crimp).
- All contacts are supplied with a contact retention pin to secure the contact to the housing.

Application ranges

• For use with circular connectors from the EPIC® POWERLOCK series.





Circular connectors







Click or scan - more information about the product online





Technical data

Rated voltage
Rated current
Max. contact resistance
Sealing material
Min. number of plug cycles
IP protection rating mounted
Operating temperature min.

1000 V AC rms / DC according to IEC 660 A according to IEC / 660 A according to UL WTTC 2 m Ω Fluorinated rubber 500 IP 67 -25 °C - 125 °C

EPIC® POWERLOCK A1

Powerlock; drain; panel-mount base; suitable for all contact versions; for cross-section: 35 mm² - 240 mm²; L1 / L2 / L3 / N / PE

Benefits

- Integrated unlocking function for quick and safe plugging and unplugging without additional tools.
- Panel-mount base drain (type A1) for use with one M12 threaded post contact drain (available separately).
- Available in harmonised colours according to European standard (colour coding for DC and AC).
- For conductor cross-sections up to 240 mm².
- High stability due to robust PBT plastic.
- When connected, protection class IP 67 can be achieved.
- Easy assembly with 4 fastening screws.
- VDE-tested quality.
- Compliant with standards for inland navigation (in accordance with DIN VDE 0100-730 Part 7-730 "Electrical land connection for inland navigation vehicles".

Application ranges

- Can be used for mobile and stationary power supply or emergency power supply via generators or battery storage systems.
- Suitable for electric motors and cooling units.
- For use with unscreened single cores.
- Withstands moderate mechanical stress.
- Suitable for outdoor use.









Circular connectors







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Technical data

Rated voltage
Rated current
Max. contact resistance
Sealing material
Min. number of plug cycles
IP protection rating mounted
Operating temperature min.

1000 V AC rms / DC according to IEC 660 A according to IEC 2 mΩ
Fluorinated rubber 500
IP 67
-25 °C - 125 °C

EPIC® POWERLOCK A6

Powerlock; source; panel-mount base; suitable for all contact versions; for cross-section: 35 mm² - 240 mm²; L1 / L2 / L3 / N / PE

Benefits

- Integrated unlocking function for quick and safe plugging and unplugging without additional tools.
- Panel-mount base source (type A6) for use with an M12 threaded post contact source (available separately).
- Available in harmonised colours according to European standard (colour coding for DC and AC).
- For conductor cross-sections up to 240 mm².
- High stability due to robust PBT plastic.
- When connected, protection class IP 67 can be achieved.
- Easy assembly with 4 fastening screws.
- VDE-tested quality.
- Compliant with standards for inland navigation (in accordance with DIN VDE 0100-730 Part 7-730 "Electrical land connection for inland navigation vehicles".

Application ranges

- Can be used for mobile and stationary power supply or emergency power supply via generators or battery storage systems.
- Suitable for electric motors and cooling units.
- For use with unscreened single cores.
- Withstands moderate mechanical stress.
- Suitable for outdoor use.









Circular connectors







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Technical data

Rated voltage
Rated current
Max. contact resistance
Sealing material
Min. number of plug cycles
IP protection rating mounted
Operating temperature min.

1000 V AC rms / DC according to IEC 660 A according to IEC 2 mΩ
Fluorinated rubber 500
IP 67
-25 °C - 125 °C

EPIC® POWERLOCK D6

Powerlock; source; suitable for all contact versions; for cross-section: 35 mm² - 240 mm²; L1 / L2 / L3 / N / PE

Benefits

- Integrated unlocking function for quick and safe plugging and unplugging without additional tools.
- Cable connector source (type D6) for use with a contact source (available separately).
- Available in harmonised colours according to European standard (colour coding for DC and AC).
- For conductor cross-sections up to 240 mm².
- High stability due to robust PBT plastic.
- With M40 thread for use with a corresponding cable gland.
- When connected, protection class IP 67 can be achieved.
- VDE-tested quality.
- Compliant with standards for inland navigation (in accordance with DIN VDE 0100-730 Part 7-730 "Electrical land connection for inland navigation vehicles".

Application ranges

- Can be used for mobile and stationary power supply or emergency power supply via generators or battery storage systems.
- Suitable for electric motors and cooling units.
- For use with unscreened single cores.
- Withstands moderate mechanical stress.
- Suitable for outdoor use.









Circular connectors







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Technical data

Rated voltage
Rated current
Max. contact resistance
Sealing material
Min. number of plug cycles
IP protection rating mounted
Operating temperature min.

1000 V AC rms / DC according to IEC 660 A according to IEC 2 mΩ
Fluorinated rubber 500
IP 67
-25 °C - 125 °C

EPIC® POWERLOCK F6

Powerlock; drain; suitable for all contact versions; for cross-section: 35 mm² - 240 mm²; L1 / L2 / L3 / N / PE

Benefits

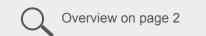
- Integrated unlocking function for quick and safe plugging and unplugging without additional tools.
- Coupling connector drain (type F6) for use with a contact drain (available separately).
- Available in harmonised colours according to European standard (colour coding for DC and AC).
- For conductor cross-sections up to 240 mm².
- High stability due to robust PBT plastic.
- With M40 thread for use with a corresponding cable gland.
- When connected, protection class IP 67 can be achieved.
- VDE-tested quality.
- Compliant with standards for inland navigation (in accordance with DIN VDE 0100-730 Part 7-730 "Electrical land connection for inland navigation vehicles".

Application ranges

- Can be used for mobile and stationary power supply or emergency power supply via generators or battery storage systems.
- Suitable for electric motors and cooling units.
- For use with unscreened single cores.
- Withstands moderate mechanical stress.
- Suitable for outdoor use.









Circular connectors



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Technical data

Rated voltage 630 V AC rms / DC according to IEC

Rated current 30 A according to IEC

Number of contacts 51 - 51

Conductor connection type Screw connection / Crimp termination

Insert material Polyamide
Material contact Copper alloy

Contact material, short form CuZn

Material contact surface Silver-plated (Ag)

Colour black Min. number of plug cycles 50

Comments relevant to the product SINAMICS® S120 is a registered trademark of Siemens AG and

is used for information and comparison purposes only.

EPIC® POWER S120

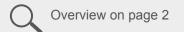
Cable connector; socket; number of contacts: 5+PE; cable connector

Benefits

- High power up to 30 A despite extremely space-saving design for very small devices.
- The service-friendly screw connection makes assembly possible without a special tool, and is suitable for connections which need to be detached again.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).

- For connecting motor modules in drive systems with the Booksize design.
- For use as the servo drive supply in SIEMENS® SINAMICS-S120 drive systems.







Data connectors







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Technical data

Rated voltage 250 V AC rms / DC according to (manufacturer specifications) / 50

V AC rms according to (manufacturer specifications) / 250 V AC rms according to (manufacturer specifications) / 60 V DC according to (manufacturer specifications) / 250 V DC according to (manufactu-

rer specifications)

Rated current 4 A according to (manufacturer specifications) / 2 A according to

(manufacturer specifications) / 0.5 A according to (manufacturer

specifications)

Number of contacts
Housing base material
Polyamide (PA)

Material contact Brass

Material contact surface Gold-plated (Au)

Min. number of plug cycles 100

IP protection rating IP 20 / IP 67

Pollution degree 3

Operating temperature min. -20 °C - 70 °C

EPIC® DATA M12-InCable-RJ45

EPIC® adapter; M12X/D plug/socket to RJ45 plug

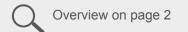
Benefits

- Functions as an adapter between a RJ45 patch cable and a M12 patch cable (D- or X-coded).
- Easy integration into existing systems without having to re-plan the cabling, thus saving time during installation.
- For stable, uninterrupted data transmission between different connector types.
- Housing made of robust polyamide.
- Low contact resistance on the M12 plug connection thanks to gold-plated, corrosion-resistant brass contacts.

- For use in Ethernet-based networks in automation technology.
- Especially for cabling sensors, actuators, control systems and networks.
- Withstands high chemical and mechanical loads.









Data connectors







Click or scan - more information about the product online





Technical data

Rated voltage 250 V AC rms / DC according to (manufacturer specifications) / 50

V AC rms / DC according to (manufacturer specifications)

Rated current 4 A according to (manufacturer specifications) / 0.5 A according to

(manufacturer specifications)

 $\begin{array}{lll} \text{Max. contact resistance} & 10 \text{ m}\Omega \\ \text{Number of contacts} & 4-8 \\ \text{Thread size} & \text{M 12} \\ \text{Conductor connection type} & \text{Screw lock} \end{array}$

Housing base material Polyvinylchloride (PVC)

Colour black

Min. number of plug cycles 100 IP protection rating IP 67 / IP 20

Pollution degree 2

Operating temperature min. -25 °C - 80 °C

EPIC® DATA M12-RJ45

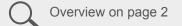
Control cabinet feed-through in coding M12X and M12D to RJ45

Benefits

- Enables easy transition from M12 to RJ45.
- When connected, protection class IP 67 can be achieved on the M12 side.
- D-coded or x-coded available.
- The angled shape of the connector is suitable for a space-saving cable outlet.

- Designed as a control cabinet feed-through for connecting an M12 connection to an RJ45 patch cable.
- For use with assembled data cables (M12D or M12X connector).







Circular connectors







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Technical data

Rated voltage Rated current

Max. contact resistance

Number of contacts

Thread size

Conductor connection type

Housing base material Housing coating

Housing coating, short form

Insert material

Material contact

Contact material, short form

Material contact surface

Material contact insert

Sealing material

630 V AC rms / DC according to IEC 30 A according to IEC

 $4 \text{ m}\Omega$

51 - 315

M 23

Crimp termination

Zinc alloy (Zn)

Nickel-plated / Chromatised

Polyamide

Copper alloy

CuZn

Gold-plated (Au)

Polyamide

Fluorinated rubber

EPIC® M23P A3 Quickflex

Circular connector; M 23 Power; pin; angled, rotatable panel-mount base

Benefits

- Rotatable outlet on the motor allows an adjustable, defined outlet angle and offers maximum connection flexibility.
- Innovative design allows high voltages up to 1000 V.
- Thanks to its reinforced wall thickness, the plug connection is mechanically robust, insensitive to shock and vibration and therefore extremely reliable.
- Quickflex quick-locking system enables simple connection to the counterpart. Locking takes place after just one eighth of a turn. Quickflex can be plugged in with market standard plug connections.
- When connected, protection class IP 68 and IP 69K can be achieved. The Clean Design plug connection is therefore easy to clean.
- Plug connection can be installed in conjunction with the EPIC® M23P HV pin inserts for voltages up to 630 V at an altitude of up to 5000 m above sea level.
- Stability thanks to die-cast zinc metal housing.
- Variants with different pole configurations available.
- Variants with chromated surface available for subsequent painting.

Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- Typical areas of application are electric motors and servo drives.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with the EPIC® M23P series marking rings.

















Circular connectors







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Technical data

Rated voltage
Rated current
Max. contact resistance
Number of contacts
Thread size

Conductor connection type Housing base material

Housing coating

Housing coating, short form

Material contact

Contact material, short form

Material contact surface Material contact insert

Sealing material

Min. number of plug cycles

1000 V AC rms / DC according to IEC

30 A according to IEC

 $4~\text{m}\Omega$

51 - 315

M 23

Crimp termination

Zinc alloy (Zn) Nickel-plated

Ni

Brass

CuZn

Gold-plated (Au)

Polyamide

Fluorinated rubber

500

EPIC® M23P D6 Quickflex 🔀

Circular connector; M 23 Power; cable connector Quickflex variant; socket; crimp termination

Benefits

- Particularly high power despite extremely spacesaving design for very small devices.
- Innovative design allows high voltages up to 1000 V.
- Quickflex quick-locking system enables simple connection to the counterpart. Locking takes place after just one eighth of a turn. Quickflex can be plugged in with market standard plug connections.
- When connected, protection class IP 68 and IP 69K can be achieved. The Clean Design plug connection is therefore easy to clean.
- Plug connection can be installed in conjunction with the EPIC® M23P HV pin inserts for voltages up to 630 V at an altitude of up to 5000 m above sea level.
- Stability thanks to die-cast zinc metal housing.
- Variants with different pole configurations available.

Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- Typical areas of application are electric motors and servo drives.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with the EPIC® M23P series marking rings.













Circular connectors







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Technical data

Rated current
Max. contact resistance
Number of contacts
Conductor connection type
Housing base material
Housing coating
Housing coating, short form
Material contact
Contact material, short form
Material contact insert
Sealing material
Min. number of plug cycles
Pollution degree
Operating temperature min.

1000 V AC rms / DC according to IEC 30 A according to IEC $4 \text{ m}\Omega$ 51 - 315 Crimp termination Zinc alloy (Zn) Nickel-plated Ni Brass CuZn Polyamide Fluorinated rubber 500 3

-20 °C - 130 °C

ding to IEC

EPIC® M23P D6 Screw termination

Circular connector; M 23 Power; socket; screw locking; crimp termination

Benefits

- Particularly high power despite extremely spacesaving design for very small devices.
- Innovative design allows high voltages up to 1000 V.
- When connected, protection class IP 68 and IP 69K can be achieved. The Clean Design plug connection is therefore easy to clean.
- Plug connection can be installed in conjunction with the EPIC® M23P HV pin inserts for voltages up to 630 V at an altitude of up to 5000 m above sea level.
- Stability thanks to die-cast zinc metal housing.
- Variants with different pole configurations available.

Application ranges

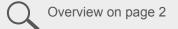
- For connecting devices and machines to a power supply in various applications, including signal transmission.
- Typical areas of application are electric motors and servo drives.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with the EPIC® M23P series marking rings.













Circular connectors







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Technical data

Rated voltage Rated current

Max. contact resistance

Number of contacts

Thread size

Conductor connection type

Housing base material

Housing coating

Housing coating, short form

Insert material

Material contact

Contact material, short form

Material contact surface

Material contact insert

Sealing material

630 V AC rms / DC according to IEC 30 A according to IEC

 $4\ m\Omega$

51 - 315

M 23

Crimp termination

Zinc alloy (Zn)

Nickel-plated

Ni

Polyamide

Brass

CuZn

Gold-plated (Au)

Polyamide

Fluorinated rubber

EPIC® M23P F6 Quickflex

Circular connector; M 23 Power; pin; coupling plug; crimp termination

Benefits

- Particularly high power despite extremely spacesaving design for very small devices.
- Innovative design allows high voltages up to 1000 V.
- Quickflex quick-locking system enables simple connection to the counterpart. Locking takes place after just one eighth of a turn. Quickflex can be plugged in with market standard plug connections.
- When connected, protection class IP 68 and IP 69K can be achieved. The Clean Design plug connection is therefore easy to clean.
- Plug connection can be installed in conjunction with the EPIC® M23P HV pin inserts for voltages up to 630 V at an altitude of up to 5000 m above sea level.
- Stability thanks to die-cast zinc metal housing.
- Variants with different pole configurations available.

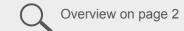
Application ranges

- For connecting devices and machines to a power supply in various applications, including signal transmission.
- Typical areas of application are electric motors and servo drives.
- Especially for environments where electromagnetic compatibility (EMC) is required.
- For use with the EPIC® M23P series marking rings.











Circular connectors







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Technical data

Rated voltage
Rated current
Max. contact resistance
Number of contacts
Conductor connection type
Insert material
Colour
Min. number of plug cycles
Pollution degree

Operating temperature min.

630~V AC rms / DC according to IEC 30~A according to IEC $4~m\Omega$ 6~-8 Crimp termination Polyamide black 500 3 $-20~^{\circ}C$ - $130~^{\circ}C$

EPIC® M23P Pin inserts

Insert; M 23 Power; number of contacts: 6/8/9

Benefits

- New design of the inserts ensures optimised latching of the contacts and the two components of the insulating body. This ensures secure and precise fixation.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).
- Variants with different pole configurations available.

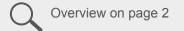
Application ranges

- For manufacturing an EPIC® M23P circular connector.
- For use with housings from the EPIC® M23P series.











Circular connectors







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Technical data

Rated voltage
Rated current
Max. contact resistance
Number of contacts
Conductor connection type
Insert material
Colour
Min. number of plug cycles
Pollution degree
Operating temperature min.

1000 V AC rms / DC according to IEC 30 A according to IEC 4 m Ω 6 - 9 Crimp termination Polyamide black/white 500 3 -20 °C - 130 °C

EPIC® M23P Pin inserts HV

Insert; M 23 Power; number of contacts: 6/8/9

Benefits

- Innovative design allows high voltages up to 1000 V.
- New design of the inserts ensures optimised latching of the contacts and the two components of the insulating body. This ensures secure and precise fixation.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).
- Variants with different pole configurations available.

Application ranges

- For manufacturing an EPIC® M23P circular connector.
- For use with housings from the EPIC® M23P series.











Circular connectors







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Technical data

Rated voltage
Rated current
Max. contact resistance
Number of contacts
Conductor connection type
Insert material
Min. number of plug cycles
Pollution degree
Operating temperature min.

1000 V AC rms / DC according to IEC 30 A according to IEC 4 m Ω 6 - 9 Crimp termination Polyamide 500 3 -20 °C - 130 °C

EPIC® M23P socket inserts

Einsatz; M 23 Power; Buchse; Anzahl der Kontakte: 6/8/9

Benefits

- Socket insert is pluggable both with the EPIC® M23P pin inserts and with the EPIC® M23P HV pin inserts.
- New design of the inserts ensures optimised latching of the contacts and the two components of the insulating body. This ensures secure and precise fixation.
- Made of robust plastic (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).
- Variants with different pole configurations available.

Application ranges

- For manufacturing an EPIC® M23P circular connector.
- For use with housings from the EPIC® M23P series.









eMobility charging solutions







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Technical data

Nominal voltage
Housing base material
Temperature min.

230 V AC rms according to IEC Polyamide (PA6G25)
-25 °C - 45 °C

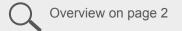
Mobility Dock Charging station ☐ Mode 2 Type 2

Mode 2 charger; Mode 2 according to IEC 61851; Type 2 according to IEC 62196; 1-phase; 6 - 10 A; 1.4 - 2.3 kW

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.

- 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 charging solutions



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Technical data

Conductor design
Cable sheath colour
Material contact surface
Minimum bending radius, occasionally moved
Temperature min.

IEC 60228 class 5: fine-wire basalt grey Silver-plated (Ag) 10 x outer diameter -25 °C - 45 °C

Mobile Charging station Mode 2 📮

Mobile charging station; Mode 2 according to IEC 61851; Type 2 according to IEC 62196; 1- / 3-phase; 8 - 32 A; 1.8 - 22 kW

Benefits

- For a maximum charging power of 22 kW, depending on the variant of the infrastructure-side connection.
- Fully-fledged replacement for a wall box in combination with an appropriate wall bracket.
- Items with an adapter solution offer maximum flexibility (2 mains adapters are included in the set as standard; other types of mains adapter are available as accessories).
- 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).
- Control Box has protection class IP 67, is robust and safe to drive over.

- For charging electric and plug-in hybrid cars at household or industrial sockets (AC power supply).
- Suitable for outdoor use, subject to the temperature range.
- Use at temperatures down to -25°C possible.





eMobility charging solutions







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Technical data

Conductor design
Core insulation base material
Base material of outer sheath
Cable sheath colour
Minimum bending radius, occasionally moved
Temperature min.
Flame retardance according to
UV-resistant according to
Zero halogen according to

IEC 60228 class 5: fine-wire
Halogen-free compound
Polyurethane
orange / black
10 x outer diameter
-40 °C - 50 °C
IEC 60332-1-2
DIN EN ISO 4892-2 method A
EN 50620

Standard AC Charging cable Mode 3 Type 2 🛂

Pre-assembled EV charging cable; ÖLFLEX® CHARGE; Type 2 IEC 62196; straight; 3.7 - 22 kW; 3 - 10 m; orange/black

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 construction (protection class IP 55) and additional longitudinal watertightness.
- Fulfils all relevant IEC and EN product requirements.
- Available in black or orange signal colour.

- 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 up to -40°C possible.





eMobility charging solutions







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Technical data

Conductor design
Cable sheath colour
Minimum bending radius, occasionally moved
Temperature min.
Flame retardance according to
UV-resistant according to
Zero halogen according to

IEC 60228 class 5: fine-wire orange / black
10 x outer diameter
-40 °C - 50 °C
IEC 60332-1-2
DIN EN ISO 4892-2 method A
EN 50620

Helix AC Charging cable Mode 3 Type 2 🗀

Pre-assembled EV charging cable; ÖLFLEX® CHARGE; Type 2 IEC 62196; Helix; 3.7 - 22 kW; 3 - 10 m; orange/black

Benefits

- Space-saving and handy: The patented HELIX cable is a self-cleaning 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 construction (protection class IP 55) and additional longitudinal watertightness.
- Fulfils all relevant IEC and EN product requirements.
- Available in black or orange signal colour.

- 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 up to -40°C possible.





eMobility charging solutions







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Technical data

Conductor design
Cable sheath colour
Minimum bending radius, occasionally moved
Temperature min.
Flame retardance according to
UV-resistant according to
Zero halogen according to

IEC 60228 class 5: fine-wire orange
10 x outer diameter
-40 °C - 50 °C
IEC 60332-1-2
DIN EN ISO 4892-2 method A
EN 50620

Spiral AC Charging cable Mode 3 Type 2 🖽

Pre-assembled EV charging cable; ÖLFLEX® CHARGE; Type 2 IEC 62196; spiral; 3.7 - 22 kW; 3 - 10 m; orange/black

Benefits

- Space-saving and handy thanks to spiralisation.
- Highly flexible cable design allows the cable to be extended to 5 metres.
- Equipped with ergonomic and robust, standardised type 2 plugs on both sides.
- Excellent moisture protection thanks to water jet-tight construction (protection class IP 55) and additional longitudinal watertightness.

- 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 up to -40°C possible.





eMobility cables







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Technical data

Conductor design
Core insulation base material
Base material of outer sheath
Cable sheath colour
Minimum bending radius, occasionally moved
Flame retardance according to
UV-resistant according to
Zero halogen according to

IEC 60228 class 5: fine-wire
Halogen-free compound
PU compound
black
10 x outer diameter
IEC 60332-1-2
EN 50620
EN 50620

ÖLFLEX® CHARGE AC Charging cable Mode 3 🖽

Charging cable; ÖLFLEX® CHARGE; Type 2 IEC 62196; straight; 3.7 - 22 kW; orange/black

Benefits

- In accordance with harmonised European design H07BZ5-F (in accordance with EN 50620) for tested safety and quality.
- VDE-certified cable with VDE testing mark for proven reliability and quality.
- Halogen-free, flame-resistant materials make the product suitable for use in public areas.
- Easy machine processability and broad colour spectrum.

Application ranges

- For assembly companies and wall box manufacturers.
- For assembling a Mode 1/Mode 2/Mode 3 charging cable.
- For charging electric and plug-in hybrid cars with AC power supply.
- Can be used in dry, damp or wet environments.
- 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.
- For operating temperatures from -40°C to +80°C.

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