

MQ15-X-Power male 0°/MQ15-X-Power fem. 0° shielded

PUR 4x2,5+2x1,5 shielded or UL/CSA+drag chain 5m

Male straight – female straight MQ15, 6-pole shielded

without cable sleeves

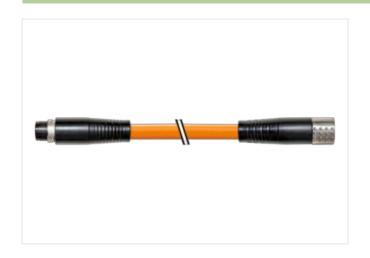
Plastic housings with good resistance against chemicals and oils.

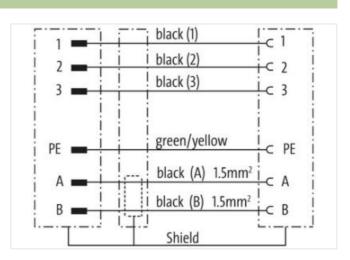
The resistance to aggressive media should be individually tested for your application. Further details on request.

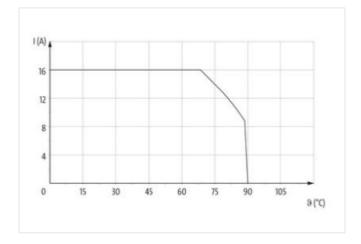
Further cable lengths on request.

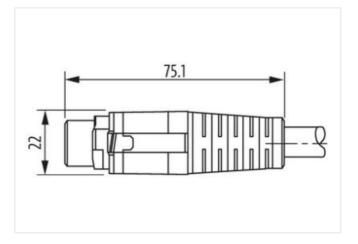
Link to Product

Illustration



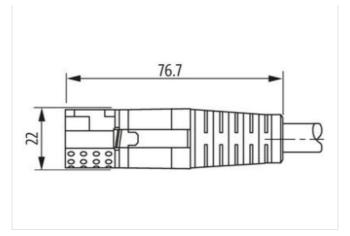


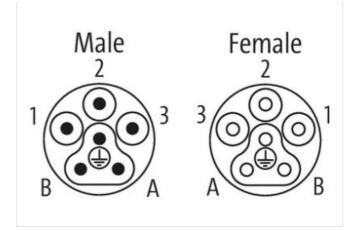






stay connected





Product may differ from Image



Side 1 Mounting method inserted, screwed Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Side 2 Mounting method inserted, screwed Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Commercial data Copper alloy ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-9.0 27440102 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060317 ECLASS-12.0 27060327 ETIM-5.0 EC001576 customs tariff number 85444290
Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Side 2 Mounting method inserted, screwed Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060317 ECLASS-12.0 27060327 ETIM-5.0 EC001576
Family construction form MQ15 Material contact Copper alloy No. of poles 6 Side 2 Side 2 Mounting method inserted, screwed Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Commercial data 27279221 ECLASS-6.0 27240104 ECLASS-7.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060312 ECLASS-12.0 27060327 ETIM-5.0 EC001576
Material contact Copper alloy No. of poles 6 Side 2 Mounting method inserted, screwed Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
No. of poles 6 Side 2 Mounting method Mounting method inserted, screwed Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
Side 2 Mounting method inserted, screwed Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060317 ECLASS-12.0 27060327 ETIM-5.0 EC001576
Mounting method inserted, screwed Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060312 ECLASS-12.0 27060327 ETIM-5.0 EC001576
Coating contact silver-plated Family construction form MQ15 Material contact Copper alloy No. of poles 6 Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
Family construction form MQ15 Material contact Copper alloy No. of poles 6 Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
Material contact Copper alloy No. of poles 6 Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060317 ECLASS-12.0 27060327 ETIM-5.0 EC001576
No. of poles 6 Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
Commercial data ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
ECLASS-6.0 27279221 ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
ECLASS-7.0 27440104 ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
ECLASS-8.0 27440104 ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
ECLASS-9.0 27440102 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
ECLASS-11.1 27060311 ECLASS-12.0 27060327 ETIM-5.0 EC001576
ECLASS-12.0 27060327 ETIM-5.0 EC001576
ETIM-5.0 EC001576
customs tariff number 85444290
GTIN 4048879702188
Packaging unit 1
Electrical data Supply
Operating voltage AC per power contact max. 600 V
Operating voltage AC per signal contact max. 63 V
Operating voltage DC per signal contact max. 63 V
Operating current per power contact max. 16 A
Operating current per signal contact max. 10 A
Diagnostics



stay connected

Installation Pin assignment Configuration for Infully used Degrees of protection Electrical Degrees of protection E	Status indication LED	no
Installation Pin assignment Configuration for Infully used Degrees of protection Electrical Degrees of protection E	Installation Connection	
Device protection Electrical Device or protection Electrical Degree of protection (EN IEC 60829) IP67 Additional condition protection degree incented, sciewed Pollution Degree 3 Akade surge voltage 4 kV Malerial group (IEC 60064-1) I Mechanical data Material data Mechanical data Mounting data Malerial group (IEC 60064-1) I Mechanical data Mounting data Mechanical data Mounting data Mechanical data Mounting data Device of protection PA Mechanical data Mounting data Mechanical data Mounting data Device of protection PA Mechanical data Mounting data Mechanical resistance Mounting data Mechanical resistance Mounting data Mechanical data Mounting data Mechanical resistance Mounting data Mechanical data Mounting data Mechanical resistance Mounting data Mechanical data Mounting data Mechanical data	Mating cycles min.	500
Device protection Electrical Device or protection Electrical Degree of protection (EN IEC 60829) IP67 Additional condition protection degree incented, sciewed Pollution Degree 3 Akade surge voltage 4 kV Malerial group (IEC 60064-1) I Mechanical data Material data Mechanical data Mounting data Malerial group (IEC 60064-1) I Mechanical data Mounting data Mechanical data Mounting data Mechanical data Mounting data Device of protection PA Mechanical data Mounting data Mechanical data Mounting data Device of protection PA Mechanical data Mounting data Mechanical resistance Mounting data Mechanical resistance Mounting data Mechanical data Mounting data Mechanical resistance Mounting data Mechanical data Mounting data Mechanical resistance Mounting data Mechanical data Mounting data Mechanical data	Installation Pin assignment	
Degree of protection (EN IEC 05529) Degree of protection (EN IEC 05529) Additional condition protection degree Inserted, screwed Pollution Degree 3 3 Alland surger voitage 4 kV Machanical data Material data Combustibility class housing (UL94) HB Machanical data Material data Combustibility class housing (UL94) HB Material contact carrier PA Material florus (Material data) Material contact carrier PA Mechanical data Munting data Confine (In Important International Contact Carrier PA Mechanical data Munting data Confine (In Important International Contact Carrier) PA Mechanical data Munting data Confine (In Important International Contact Carrier) PA Mechanical data Munting data Confine (In Important International Contact Carrier) PA Mechanical data Munting data Confine (In Important International Contact Carrier) PA Mechanical data Munting data Confine (In Important International Contact Carrier) PA Mechanical condition temperature max. 80 °C Confine (In International Contact Carrier) Motion on strain roller Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes. Affortion: Observe the permissible binding radii when laying cables, as the IP Protection class can be endangered by occessive bonding forces. Installation (Cable Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Date date inheliding (pype) Cable shielding (pype		fully used
Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed Petitution Degree 3 Rated surge voltage 4 kV Material group (IEC 60664-1) I Mechanical data Material data Combustibility class housing (UL94) HB Material thousing Pasition Desire Pasition Material data Combustibility class housing (UL94) HB Material frough (EC 60664-1) Pasition Material data Combustibility class housing (UL94) HB Material thousing Pasition Desire Pasition Material data Combustibility class housing (UL94) HB Material country of the Company of Pasition Material Cardia Pasition Material Cardia Pasition Material Cardia Deparating temperature max. Bo **C** Operating temperature max. Bo **C** Operating temperature max. Bo **C** Operating temperature max. Bo **C** Note on Strain relief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties. Note on bending radius Attention: Cosenve the permissible bending radii when loying cables, as the IP protection class can be endangered by excessive bending forces. Initialiation Cable Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable shrieding (type) copper braiding, bare Cable shrieding (type) copper wire, bare Material packet Direct diameter (sheath) 15 % Material packet Direct diameter (sheath) 2 5 % Material packet Direct diameter (sheath) 5 % Material packet Dire		iuily used
Additional condition protection degree inserted, screwed Pollution Degree 3 Attention Degree 4 kV Material group (IEC 606641) Mochanical data Material data Communical data Material data Material contact carrier PA Material forum Plastic Additional data Municipal data Coving techniques bayonet-locking Environmental characteristics Climatic Coperating temperature min. 25 °C Operating temperature min. 26 °C Additional condition temperature max. 80 °C Additional condition (Cobsence the permissible bendaring radia when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable shielding (type) copper braiding, bare Zable shielding (type) copper braiding, bare Zable shielding (type) copper braiding, bare Zable shielding (type) could be defined to the condition of the permissible benefit of the condition of the permissible perm	Device protection Electrical	
Pellution Degree 3 **Rated surge voltage** 4 kV **Markerial group (IEC 60664-1) 1 **Mechanical data Material data **Combustibility class housing (UL94) HB **Markerial contact carrier PA **Mechanical data Munning data **Conking techniques bayone! Locking **Environmental characteristics Climatic **Doparating temperature max. 80 °C **Codificinal condition temperature range depending on cable quality **Important installation notes **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. **Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. b	Degree of protection (EN IEC 60529)	
Rated surge voltage 4 kV Material group (IEC 80684-1) I Combustibility class housing (UL94) HB Material housing Plastic Material housing Plastic PA Mechanical data Mounting data Looking letchniques bayonet-looking Environmental characteristics Climato Deparating temperature min. 25 °C Deparating temperature max. 80 °C Additional condition temperature range elements of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable itses. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable identification PI1 Jackel Color crange Zable shielding (coverage) 80 °C Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable installation placket PUR Duter-claimeter (sacket) 12.8 mm Tolerance outer diameter (sacket) 12.8 mm Tolerance outer diameter (sacket) 2,5 mm² Material poket over insulation TPE Amount wires outer diameter (black) 1,5 mm² Material wire insulation (Data) TPE Amount wire (Data) 1,5 mm² Material wire insulation (Data) TPE Material wire insulation (Data) Stranded copper wire, bare Zenductor type (wire) Stranded copper wire, bare Zenductor type (Wire) Stranded copper wire, bare Zenductor type (Wire) Stranded copper wire, bare Zenductor in yellowisand will also		· · · · · · · · · · · · · · · · · · ·
Material group (IEC 608641) Mochanical data Material data Combustibility class housing (UL94) Material contact carrier Mechanical data Mounting data Looking techniques Bayonet-tocking Environmental characteristics Climatic Operating temperature min. 80 °C Additional condition temperature map. Boy Cadditional condition temperature range depending on cable quality Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Note on bending radiius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Note on bending radiius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. P11 Lacket Color orange Cable identification P11 Lacket Color orange Cable shielding (type) Cable shieldin		
Mechanical data Material data Material data Material country HB Material housing Plastic Material housing Plastic PA Mechanical data Mounting data Mo		4 kV
Plastic Pla	Material group (IEC 60664-1)	
Material housing Plastic Material contact carrier PA Mechanical data Mounting data Looking techniques bayonet-locking Environmental characteristics Climatic Operating temperature min. 25 °C Operating temperature max. 80 °C Additional condition temperature range depending on cable quality Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tes. Note on berding radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Coble Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable identification PI1 Jacket Cofor orange Zable sheliding (type) copper braiding, bare Zable sheliding (coverage) 80 °4, Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable sheliding (coverage) 80 °4, Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable sheliding (coverage) 80 °4, Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable sheliding (coverage) 80 °4, Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable sheliding (coverage) 80 °4, Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable sheliding (coverage) 80 °4, Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable sheliding (coverage) 80 °4, Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable sheliding (coverage) 80 °4, Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Zable sheliding (coverage) 80 °4, Wire conductor twice (black 1, black 2, black 3), (green-yellow, white, black) Zable sheliding (coverage) 80 °4, Zable sheliding (coverage)	Mechanical data Material data	
Mechanical data Mounting data Looking techniques beyonet-looking Environmental characteristics Climatic Operating temperature min. 25 °C Operating temperature max. 80 °C Additional condition temperature max. 80 °C Additional condition temperature max. 80 °C Meditional condition temperature max. 80 °C Additional condition temperature max. 80 °C Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Lackel Color orange Cable shelding (tope) copper braiding, bare Cable shelding (coverage) 80 % wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Dioter-diameter (jacket) 12,8 mm Tolerance outer diameter (sheat) 15 % Material wire insulation TPE Amount wires 4 Conductor twice Stranded copper wire, bare Conductor twice (Data) TPE Amount wires (Data) 2 C Conductor twice (Data) Stranded copper wire, bare Wire conductor twice (Data) Stranded copper wire, bare Mice and conductor wire (Data) Stranded copper wire, bare Mice and conductor wire (Data) Stranded copper wire, bare Mice and conductor wire (Data) Stranded copper wire, bare Mice and conductor wire (Data) Stranded copper wire, bare Mice and conductor wire (Data) Stranded copper wire, bare Mice and wires (Data) Stranded copper wire, bare Mi	Combustibility class housing (UL94)	НВ
Decinical data Mounting data Deciniques Desponsible Deciniques Department Departm	Material housing	Plastic
Environmental characteristics Climatic Operating temperature min. 25 °C Operating temperature max. 80 °C Additional condition temperature range Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable wite arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable identification P11 Jackel Color Cable shielding (coverage) 80 % wite arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable shielding (coverage) 80 % Waterial jacket PUR Duter-diameter (jacke) 12,8 mm Tolerance outer diameter (sheath) 4.5 % Material wrie insulation TPE Amount wries 4 Conductor rosssection (wire) Stranded copper wire, bare Conductor rosssection wire (Data) Material conductor wire (Data) Stranded copper wire, bare Mile conductor vires (Data) Stranded copper wire, bare Mile conductor vire (Data) Stranded copper wire, bare	Material contact carrier	PA
Environmental characteristics Climatic Operating temperature min. -25 °C Operating temperature max. 80 °C Additional condition temperature range depending on cable quality Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable identification P11 Cable identification P11 Cable identification (type) Cable shielding (coverage) 80 % Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Waterial jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material conductor wire Stranded copper wire, bare Amount wires 4 Conductor orsessection (wire) Strand class 5 Material conductor wire Conductor rosssection (wire) Strand class 5 Material conductor wire (Data) Material conductor wire (Data) Strand class 5 Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Mire conductor type (Data) Stranded copper wire, bare Electrical resistance coating wire (Data) 4 kW Power frequency withstand voltage (wire - wire) 4 kW Power frequency withstand voltage (wire - wire) 4 kW	Mechanical data Mounting data	
Environmental characteristics Climatic Operating temperature min. -25 °C Operating temperature max. 80 °C Additional condition temperature range depending on cable quality Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable identification P11 Cable identification P11 Cable identification (type) Cable shielding (coverage) 80 % Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Waterial jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material conductor wire Stranded copper wire, bare Amount wires 4 Conductor orsessection (wire) Strand class 5 Material conductor wire Conductor rosssection (wire) Strand class 5 Material conductor wire (Data) Material conductor wire (Data) Strand class 5 Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Mire conductor type (Data) Stranded copper wire, bare Electrical resistance coating wire (Data) 4 kW Power frequency withstand voltage (wire - wire) 4 kW Power frequency withstand voltage (wire - wire) 4 kW	Looking techniques	bayonet-locking
Operating temperature min. -25 °C Operating temperature max. 80 °C Additional condition temperature range depending on cable quality Important installation notes Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Installation Cable Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable Installation Cable wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable identification P11 Lacket Color conper braiding, bare Cable shielding (toverage) 80 % wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Waterial packet PUR Counter-diameter (jacket) 12.8 mm Toller-diameter (jacket) 12.8 mm Toller-diameter (jacket) ± 5 % Material wire insulation TPE Amount wires 4 Conductor type (wire) Stranded copper wire, bare	- '	
Operating temperature max. 80 °C Additional condition temperature range depending on cable quality Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable Write arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable identification P11 Jacket Color orange Cable shielding (type) copper braiding, bare Cable shielding (coverage) 80 % Write arrangement (black 1, black 2, black 3), (green-yellow, white, black) Attential jacket PUR Couter-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material wire insulation (Data) TPE Material conductor wire (Data) Stranded copper wire, bare Conductor crosssection wire (Data) Stranded copper wire, bare Wire conductor wire (Data) Strand class 5 Wire conductor wire (Data) Str	·	05.00
Important installation notes Note on strain relief Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable I	· · · ·	
Important installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable Write arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable identification P11 Jacket Color orange Cable shielding (type) copper braiding, bare Cable shielding (coverage) 80 % Write arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material write insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material vire insulation (Data) TPE Amount wires (Data) 2 Conductor vire (Data) Stranded copper wire, bare Material conductor wire (Data) Stranded copper wire, bare Material conductor wire (Data) Stranded copper wire, bare Mitterial conductor wire (Data) Stranded copper wire, bare	· • ·	
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) P11 Jacket Color orange Cable shielding (type) copper braiding, bare Cable shielding (coverage) 80 % wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Duter-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) 4 5 % Material veries usualtion TPE Amount wires 4 Conductor crosssection (wire) Stranded copper wire, bare Conductor type (wire) Material conductor wire Conductor type (wire) Material conductor wire (Data) Material conductor wire (Data) Material conductor wire (Data) Material conductor wire (Data) Stranded copper wire, bare Material conductor wire (Data) Material conductor wire (Data) Material conductor wire (Data) Stranded copper wire, bare Mitter conductor type (Data) Stranded copper wire, bare Mitter conductor wire (Data) Mitter conductor type (Data) Stranded copper wire, bare Nominal voltage AC max. 1000 V Electrical resistance coating wire (Data) AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire - wire) 4 kV		depending on cable quality
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Installation Cable Write arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable identification P11 Jacket Color orange Cable shielding (type) copper braiding, bare Cable shielding (coverage) 80 % Write arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material wire insulation (Oata) TPE Amount wires (Data) 2 Conductor type (wire) Stranded copper wire, bare Conductor rosssection wire (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor type (Data) Stranded copper wire, bare Mire conductor wire (Data) Stranded copper wire, bare Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire - year) 4 kV Power frequency withstand voltage (wire - year) 4 kV	Important installation notes	
Installation Cable wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable identification P11 Jacket Color orange Cable shielding (type) copper braiding, bare Cable shielding (coverage) 80 % wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Duter-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material wire insulation (Data) TPE Amount wires (Stata) 2 Conductor type (wire) Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) 1,5 mm² Material conductor wire (Data) 5 tranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor type (wire) 5 tranded copper wire, bare Conductor type (wire) 5 tranded copper wire, bare Conductor type (wire) 5 tranded copper wire, bare Mire conductor wire (Data) 1,5 mm² Material conductor wire (Data) 5 tranded copper wire, bare Wire conductor type (Data) 5 tranded copper wire, bare Wire conductor type (Data) 5 tranded copper wire, bare Wire conductor type (Data) 5 tranded copper wire, bare Wire conductor type (Data) 5 tranded copper wire, bare Wire conductor type (Data) 6 tranded copper wire, bare Wire conductor type (Data) 6 tranded copper wire, bare Wire conductor type (Data) 6 tranded copper wire, bare Wire conductor type (Data) 6 tranded copper wire, bare Wire conductor type (Data) 6 tranded copper wire, bare Wire conductor type (Data) 6 tranded copper wire, bare Wire conductor type (Data) 6 tranded copper wire, bare Wire conductor type (Data) 6 tranded copper wire, bare Wire conductor type (Data) 7 tranded copper wire, bare	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Cable identification P11 Jacket Color orange Cable shielding (type) copper braiding, bare Cable shielding (coverage) 80 % wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ±5 % Material wire insulation TPE Amount wires 4 Conductor orosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Mire conductor type (Data) Stranded copper wire, bare Mire conductor vire (Data) Stranded copper wire, bare Mire conductor vire (Data) Stranded copper wire, bare Mire conductor type (Data) Stranded copper wire, bare Mire conductor vire (Data) Stranded copper wire, bare Mire conductor vire (Data) Stranded copper wire, bare Mire conductor type (Data) Stranded copper wire, bare Mire conductor type (Data) Stranded copper wire, bare Mire conductor vire (Data) Stranded copper wire, bare Mire conductor type (Data) Stranded copper wire, bare Mire conductor type (Data) Stranded copper wire, bare Mire conductor vire (Data) Stranded copper wire, bare	Note on bending radius	
Cable identification P11 Jacket Color orange Cable shielding (type) copper braiding, bare Cable shielding (coverage) 80 % wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor rosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Conductor orosssection wire (Data) Stranded copper wire, bare Material conductor wire (Data) Stranded copper wire, bare Material conductor wire (Data) Stranded copper wire, bare Mire conductor wire (Data) Stranded copper wire, bare	Installation Cable	
Jacket Color orange Cable shielding (type) copper braiding, bare Cable shielding (coverage) 80 % wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) \$tranded copper wire, bare Wire conductor type (Wite) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire - wire) 4 kV	wire arrangement	(black 1, black 2, black 3), (green-yellow, white, black)
Cable shielding (type) copper braiding, bare Cable shielding (coverage) 80 % wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material ovincutor type (wire) Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare	Cable identification	P11
Cable shielding (coverage) 80 % wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Jacket Color	orange
wire arrangement (black 1, black 2, black 3), (green-yellow, white, black) Material jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor wire (Data) Stranded copper wire, bare Wire conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C Electrical resistance coating wire (Data) 4 kV Power frequency withstand voltage (wire -	Cable shielding (type)	copper braiding, bare
Material jacket PUR Outer-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Cable shielding (coverage)	80 %
Duter-diameter (jacket) 12,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Material conductor wire (Data) Stranded copper wire, bare Wire conductor vire (Data) Stranded copper wire, bare Wire conductor vire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	wire arrangement	(black 1, black 2, black 3), (green-yellow, white, black)
Tolerance outer diameter (sheath) ± 5 % Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Material jacket	PUR
Material wire insulation TPE Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 \(\Omega/\text{km} \text{ @ 20 °C}\) Electrical resistance coating wire (Data) 14 \(\Omega/\text{km} \text{ @ 20 °C}\) AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Outer-diameter (jacket)	12,8 mm
Amount wires 4 Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Tolerance outer diameter (sheath)	± 5 %
Conductor crosssection (wire) 2,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) Conductor crosssection wire (Data) Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 \(\Omega/km\) @ 20 °C Electrical resistance coating wire (Data) 14 \(\Omega/km\) @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Material wire insulation	TPE
Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Amount wires	4
Conductor type (wire) Strand class 5 Material wire insulation (Data) TPE Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV	Conductor crosssection (wire)	· · · · · · · · · · · · · · · · · · ·
Material wire insulation (Data) TPE Amount wires (Data) Conductor crosssection wire (Data) Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Material conductor wire	
Amount wires (Data) 2 Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 \(\Omega/km\) @ 20 °C Electrical resistance coating wire (Data) 14 \(\Omega/km\) @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Conductor type (wire)	
Conductor crosssection wire (Data) 1,5 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire - 4 kV)	Material wire insulation (Data)	
Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Amount wires (Data)	
Wire conductor type (Data) Strand class 5 Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Conductor crosssection wire (Data)	· · · · · · · · · · · · · · · · · · ·
Nominal voltage AC max. 1000 V Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -		
Electrical resistance line constant wire 8,5 Ω/km @ 20 °C Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Wire conductor type (Data)	
Electrical resistance coating wire (Data) 14 Ω/km @ 20 °C AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire -	Nominal voltage AC max.	
AC withstand voltage (wire - wire) 4 kV Power frequency withstand voltage (wire - 4 kV	Electrical resistance line constant wire	
Power frequency withstand voltage (wire -	Electrical resistance coating wire (Data)	
	AC withstand voltage (wire - wire)	4 kV
	Power frequency withstand voltage (wire - jacket)	4 kV



Min. operating temperature (static)	-25 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	80 °C
Flame resistance	UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	5 Mio.
Travel speed (C-track)	3 m/s
Torsion stress	± 15 °/m