

M12 Power male 90° / female 90° T-cod.

PUR 4x1.5 bk UL/CSA+drag ch. 3m

Power Male 90° – female 90° M12 – M12, 4-pole T-coded with cable sleeves

Plastic housings with good resistance against chemicals and oils.

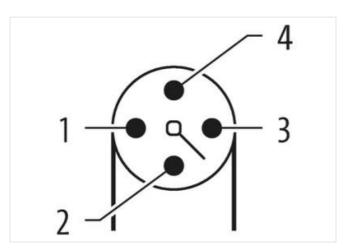
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

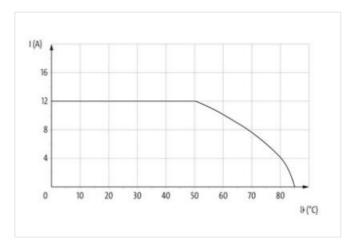
Link to Product

Illustration



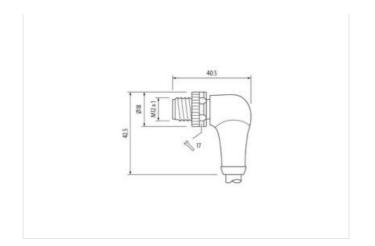


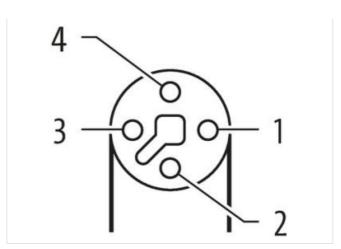


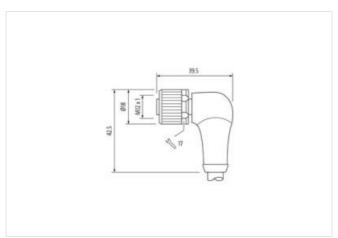




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Product may differ from Image









Cable length	3 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12P
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	12 mm
Coding	Т
Material contact	Copper alloy
No. of poles	4
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12P
Thread	M12 x 1
Coding	Т

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-06-26



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Material contact	Copper alloy
No. of poles	4
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060327
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060327
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879818933
Packaging unit	1
Electrical data Supply	
Operating voltage DC max.	63 V
Current operating per contact max.	12 A
Diagnostics	
Status indication LED	20
	no
Installation Connection	
Width across flats	SW17
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I
Mechanical data Material data	
Coating locking	Nickeled
Material gasket	FKM
Material housing	PUR
Locking material	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	depending on each quality
•	District the connectors by witchis many properties and beginning to the connectors by
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
Note on bending radius	endangered by excessive bending forces.
Conformity	
Product standard	IEC 61076-2-111
Installation Cable	
wire arrangement	black 4, blue 3, white 2, brown 1
Cable identification	P07
Cable Type	3
Cable Type	

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Type of Certificate CURIUS Amount stranding 1 Stranding 4 wires twisted wire arrangement black 4, blue 3, white 2, brown 1 Cable weight 114.4 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedown from ingredients (jackot) 7.2 mm Outer-diameter (sheakth) ± 5 % Material wire insulation FP Amount wires 4 Cuter diameter insulation 2.9 mm Outer diameter for insulation 2.5 mm Outer diameter insulation 5 % w Shore hardness wire insulation 60 ± 5 Shore D Ingredient fleeness wire insulation 60 ± 5 Shore D Ingredient fleeness wire insulation 60 ± 5 Shore D Ingredient fleeness wire insulation 60 ± 5 Shore D Printing color of wire insulation 60 ± 5 Shore D Ingredient fleeness wire insulation 60 ± 5 Shore D Ingredient fleeness wire insulation 60 ± 5 Shore D Ingredient fleeness wire insulation 60 ± 5 Shore D Connotice of single wiree	Jacket Color	black
Amount stranding 1 Stranding 4 wires twisted wire arrangement black 4, blus 3, white 2, brown 1 Cable weight 114.4 gm Material jacket PUR Shore hardness jacket 90.5 Shore A Freadom from ingredients ligitackel) lead-free, cadmum-free, CFC-free, halogen-free, silicone-free Under-diameter (jacket) 7.2 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Anount wires 4 Outer diameter insulation 2.2 mm Outer diameter tolerance core insulation 5.5 % Shore hardness wire insulation 6.5 5 Shore D Ingredient telerass wire insulation 6.5 5 Shore D Ingredient treeness wire insulation 8.6 ± 5 Shore D Ingredient treeness wire insulation 8.6 ± 5 Shore D Conductor strands (wire) 84 Diameter of single wree 0,15 mm Conductor type (wire) 1,5 mm² Material conductor wire Sharded copper wire, bare Conductor type (wire) 1 x m² Material conductors wi		
Stranding		1
Cable weigh 114.4 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 7,2 mm Toflerance outer diameter (shatt) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter tolerance or one insulation ± 5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation black (white isolation), white (solation blue), white (solation brown), white (solation black) Printing outer of wire insulation black (white isolation) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Strand class 6 Nominal voltage AC max. 1000 V Current load capacity min. wire 14,4 A Electrical resistance line (or wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s		4 wires twisted
Cable weight 114.4 g/m Material jacket PUR Material jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 7.2 mm Outer-diameter (jacket) 2.5 % Material wire insulation PP Amount wires 4 Outer diameter tolerance core insulation 2.3 mm Outer diameter tolerance core insulation 80 ± 5 Shore D Ingredient freeness wire insulation 80 ± 5 Shore D Ingredient freeness wire insulation Bod ± 5 Shore D Ingredient freeness wire insulation Bod ± 5 Shore D Printing ooler of wire insulation Bod ± 5 Shore D Printing ooler of wire insulation Bod ± 5 Shore D Printing ooler of wire insulation Bod ± 5 Shore D Printing ooler of wire insulation Bod ± 5 Shore D Printing ooler of wire insulation Bod ± 5 Shore D Manual stands (wire) Bd Balack (white isolation), white (isolation blue), white (isolat	wire arrangement	black 4, blue 3, white 2, brown 1
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free		114,4 g/m
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Material jacket	-
Freedom from Ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 7.2 mm Toferance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter router insulation 2.3 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black) Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black) Amount strands (wire) 84 Dameter of slave wires 0,15 mm Conductor crossection (wire) 1,5 mm² Material conductor wire Stranded opper wire, bare Conductor type (wire) strand deas 6 Nominal voitage AC max. 1000 V Current load capacity (standard) to DIN VDE 2094 4 Current load capacity (standard) to DIN VDE 2094 4 Current load capacity (standard) to NW @ 0 s Power frequency withstand voltage (wire - inclus	·	90 ± 5 Shore A
Tolerance outer diameter (sheath)		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 4 Outer diameter insulation 2,3 mm Outer diameter tolerance core insulation 60 ± 5 Shore D Shore hardness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor or sessection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,3 Ω/m @ 20 °C Ac withstand voltage (wire - wire) 10 kW @ 60 s Min. operating temperature (statio) -50 °C Max. operating temperature (statio) -50 °C Max. operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A	Outer-diameter (jacket)	7,2 mm
Amount wires 4 Outer diameter insulation 2.3 mm Outer diameter insulation ± 5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing cotor of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black) Amount strands (wire) 84 Dameter of single wires 0.15 mm Concluctor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity standard to DIN VDE 0298-4 Current load capacity min, wire 14,4 A Electrical resistance line constant wire 13,3 0/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (static) 50 °C Max. operating temperature max (dynamic) 25 °C Operating temperature max (dynamic) 80 °C / 90 °C @ 10000 h Operation </td <td>Tolerance outer diameter (sheath)</td> <td>± 5 %</td>	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 2,3 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation black defree, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black) Amount strands (wire) 84 Dameter of single wires 0,15 mm Conductor of single wires 0,15 mm Conductor oversessection (wire) 1,5 mm² Material conductor vire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,3 0km @ 20°C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - vire) 10 kV @ 60 s Min. operating temperature (static) 80°C / 90°C @ 10000 h Operation Max. operating temperature (static) 80°C / 90°C @ 10000 h Operation UV resistance	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance Good, application-related testing Gaso	Amount wires	4
Shore hardness wire insulation 60 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor (wire) 1.5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max 1000 V Current load capacity (islandard) to DIN VDE 0298-4 Current load capacity (islandard) to DIN VDE 0298-4 Current load capacity (wire - wire) 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (static) 50 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature (min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Gasoline	Outer diameter insulation	2,3 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black) Amount strands (wire) 84 Allow and strands (wire) 9, 1,5 mm² Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Conductor type (wire) strand class 6 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire) 13,3 Q/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 25 °C Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Enerding radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traver sing distance (C-track) 5 Mio. @ 25 °C Traver sing distance (C-track) 3, m/s @ 25 °C Traver sing distance (C-track) 3, m/s @ 25 °C Torsion stress ± 180 °/m	Outer diameter tolerance core insulation	± 5 %
Printing cotor of wire insulation black (white isolation), white (isolation brown), white (isolation black) Amount strands (wire) 84 Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity fish wire 14,4 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (static) 50 °C Max. operating temperature (kixed) 80 °C / 90 °C @ 10000 h Operation UV resistance Dine max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance ULL 1581 § 1909 ULL 1581 § 1100 FT2 IEC 60332-2 c chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Bending radius (fixed) 5 w Quere diameter Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 m Qood, application-related testing DIN EN 60811-404	Shore hardness wire insulation	60 ± 5 Shore D
Amount strands (wire) 84 Diameter of single wires 0.15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C@ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) -80 °C / 90 °C@ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 109 UL 1581 § 1100 FT2 IEC 60332-2-2 Chemical resistance Good, application-related testing Gli resistance Good, application-related testing Oil resistance Good, application-related testing Oil resis	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires 0,15 mm Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,20/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - in lok V @ 60 s 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1090 L 1.581 § 1100 FT2 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diame	Printing color of wire insulation	black (white isolation), white (isolation blue), white (isolation brown), white (isolation black)
Conductor crosssection (wire) 1,5 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,3 0/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - wire) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (static) -50 °C Max. operating temperature (inic. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1990 UL 1581 § 1100 FT2 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gli resistance Good, application-related testing Oil resistance Good, application-related testing <tr< td=""><td>Amount strands (wire)</td><td>84</td></tr<>	Amount strands (wire)	84
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - izeket) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Filame resistance UL 1581 § 1'900 UL 1581 § 1'100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 1	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14.4 A Electrical resistance line constant wire 13.3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - jacket) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m	Conductor crosssection (wire)	1,5 mm²
Nominal voltage AC max. 1000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - jacket) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traverling distance (C-track) 5 m	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,3 \(\Omega \)/\text{ Me Q2 °C} AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - lack) 60 s Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1909 UL 1581 § 1100 FT2 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Travel speed (C-track) 5 m @ 25 °C Tosion stress ± 180 °/m	Conductor type (wire)	strand class 6
Current load capacity min. wire 14,4 A Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - jacket) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 5 m @ 25 °C Tosion stress ± 180 °/m	Nominal voltage AC max.	1000 V
Electrical resistance line constant wire 13,3 Ω/km @ 20 °C AC withstand voltage (wire - wire) 10 kV @ 60 s Power frequency withstand voltage (wire - jacket) 10 kV @ 60 s Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Torsion stress ± 180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) Power frequency withstand voltage (wire - jacket) Nin. operating temperature (static) -50 °C Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 5 mio 25 °C Traver sing distance (C-track) 5 mio 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Torsion stress ± 180 °/m	Current load capacity min. wire	14,4 A
Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Min. operating temperature (fixed) So °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m@ 25 °C Traversing distance (C-track) 5 m@ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Torsion stress ± 180 °/m	Electrical resistance line constant wire	13,3 Ω/km @ 20 °C
jacket) Min. operating temperature (static) Min. operating temperature (fixed) Min. operating temperature (fixed) Min. operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Torsion stress ± 180 °/m	AC withstand voltage (wire - wire)	10 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 mio. @ 25 °C Traversing distance (C-track) 5 mio. 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Trosion stress ± 180 °/m		10 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Torsion stress ± 180 °/m	Min. operating temperature (static)	-50 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traver sing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Torsion stress ± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistance DIN EN ISO 4892-2 A 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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C Torsion stress ± 180 °/m	Operating temperature min. (dynamic)	-25 °C
Flame resistance Classification resistance Classification resistance Classification resistance Classification resistance Classification related testing Cla	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m	Flame resistance	UL 1581 § 1090 UL 1581 § 1100 FT2 IEC 60332-2-2
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m	chemical resistance	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. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m		5 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m	No. of bending cycles (C-track)	5 Mio. @ 25 °C
No. of torsion cycles 2 Mio. 25 °C Torsion stress ± 180 °/m	Traversing distance (C-track)	5 m @ 25 °C
Torsion stress ± 180 °/m	Travel speed (C-track)	3,3 m/s @ 25 °C
	No. of torsion cycles	2 Mio. 25 °C
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min