

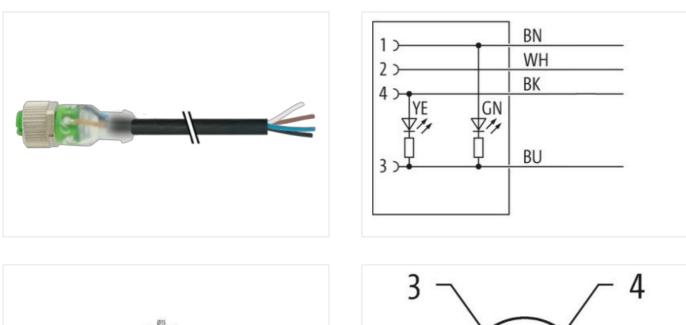
M12 female 0° A-cod. with cable LED

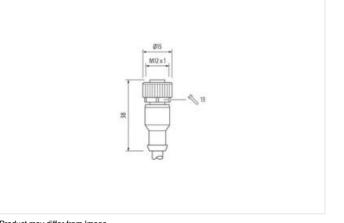
PUR 4x0.34 bk UL/CSA+drag ch. 10m

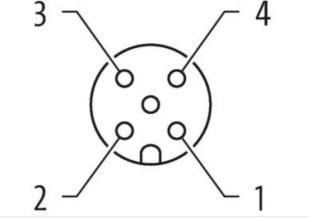
Female straight M12, 4-pole 2× LED (PNP) Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

Link to Product

Illustration







Product may differ from Image



10 m

0,6 Nm

Cable length

Side 1

Tightening torque

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: 2024-05-19

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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879209144
Packaging unit	1
Electrical data Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
Installation Connection	
Mounting set	M12 x 1
Device protection Electrical	
Pollution Degree	3
Rated surge voltage	0.8 kV
Material group (IEC 60664-1)	
Mechanical data Material data	
	NP-1 - 1 - J
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material Material screw connection	Zinc die-casting
	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °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.
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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	

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wire arrangement

brown, black, blue, white

Cable Type 9 Jacker Color black Type of Certificate cURus Annount stranding 1 Stranding 4 weis hvistod wie amagement brown, black, blue, white Cable weight 36.3 g/m Material jacket PUR Strote franchess jacket 90.5 Strote A Frandent coming gradents (jacket) 4.5 mm Tolerance outur diameter (jacket) 4.5 mm Tolerance outur diameter insulation PP Amount wiss 4 Outer diameter insulation 1.5 % Material wire insulation 1.5 % Material wire insulation 1.5 % Strone hardness wire insulation 1.5 % Material wire insulation 1.5 % Strone hardness wire insulation 1.5 % Strone hardness wire insulation 1.5 % Material wire insulation 1.5 % Strone hardness wire insulation 1.6 % Marchard wire insulation 1.0 % Marchard wire insulation 1.0 % Marchare asswire insula	Cable identification	634
Jacket black. Type of Cartificate cURus Amount stranding 1 Stranding 4 wires twisted wires arrangement block, blue, white Cable weight 56.3 gm Material jacket PUR Stranding (jobe) 16.3 Strone A Freedom from ingredents (jacket) lead-free, cadmum-free, CFC-free, halogen-free, silicone-free Outer-diameter (jobeth) 1.5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1.25 mm Mount strond (wire) 42 Diameter or single wires 0.1 mm Conductor type (wire) 1.45 Mm² Strone hardness kire insulation 1.05 Mm² Maintal conductor wires Strander coper wire, bare Conductor type (wire) 4.3 A Diameter or single wires 0.1 mm	-	
Type of Certificate cURus Amount stranding 1 Amount stranding 1 Stranding 4 vies twisted wire arrangement brown, black, blue, white Calibe weight 36.3 g/m. Material jacket PUR Stranding disclot PUR Stranding disclot PUR Stranding disclot 90.5 Shore A Freedom from inglindonts (jackb) 4.5 mm Colarance outer diameter (jackal) 4.5 mm Colarance outer diameter (jackal) 4.5 mm Outer diameter insulation PP Amount wires 4 Outer diameter insulation 70.5 Shore D Tingredient freesew wire insulation 70.5 Shore D Tingredient freesew wire insulation 70.5 Shore D Conductor crossection (wire) 0.34 mm² Conductor crossection (wire) 0.34 mm² Conductor vire Stranded copper wire, bare Conductor vire Stranded copper wire, bare Conductor vire Stranded copper wire, bare Conductor vire Stranded copper		black
Arnourt stranding 1 Stranding 4 wires krolet Wrie arrangement brown, black, ble, while Cable weight 96.3 g/m Material jacket PUR Shore hardness jacket 90.4 5 Shore A Freedom from ingredients (alceld) lead-free, caffuurth-free, CFC-free, halogen-free, silicone-free Outer diameter (alceld) 4.5 mm Tolerance outer diameter (alceld) ± 5 %. Material ingredients (alceld) ± 5 %. Material weir insulation PP Annount wies 4 Outer diameter insulation 1.2 5 mm Outer diameter insulation 1.2 5 Shore D Ingredient feeness wire insulation 1.5	Type of Certificate	cURus
Stranding 4 wires twisted wire arrangement brown, black, blue, white Gable weigh 36.3 µm Material jacket PUR Shore hardness jackat 90.1 5 Shore A Freedom from ingrodents (jacket) 40.1 fshore A Tolerance outer diameter (jacket) 4.5 mm Tolerance outer diameter (jacket) 4.5 mm Tolerance outer diameter (jacket) 4.5 mm Outer diameter insulation PP Amount Writes 4 Outer diameter tolerance core insulation 1.25 mm Outer diameter tolerance core insulation 1.26 mm Outer diameter tolerance core insulation 1.26 mm Outer diameter tolerance core insulation 1.26 mm Outer diameter of single wires 0.1 mm Conductor trype (wire) Strand desp 6 Conductor type (wire) Strand desp 6 Conductor type (wire) Strand desp 6 Conductor type (wire) Strand desp 6 Current load capacity (int wire) 2.5 kV @ 60 s Power trogueny whilan		1
wire arrangement brown, black, blue, white Cable weight 36.3 g/m Material jacket PUR Shore hardnass jacket 90.5 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4.5 mm Tolerance outer diameter (sheath) 1.5 % Maharial were sulation PP Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter insulation 70.1 5 Shore D Ingredent freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor crosssection (wire) 0.34 mm ² Material conductor wire Strand class 6 Onnimal voltage AC max. 300 V 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 (withstand voltage (wire-site) 57 C Mm @ 20 * C AC withstand vol		4 wires twisted
Cable weight 36.3 g/m Material jacket PUR Material jacket 90.5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, sillcone-free Outer-diameter (jacket) 4.5 mm Tolerance outer diameter (shall) ± 5 %. Material wire insulation PP Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter insulation 1.5 mm Outer diameter insulation 1.5 % Shore hardness wire insulation 1.05 mm Outer diameter leverance core insulation ± 5 %. Shore hardness wire insulation 1.05 mm Digredient fromess wire insulation 1.05 mm Conductor pressescienton (wire) 0.34 mm ² Conductor type (wire) strand dease 6 Nominal voltage AC max. 300 V Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity (strandard) to DIN VDE 0298-4 Current load capacity (strandard) 2.5 kV @ 60 s Power frequency withstand voltage (wire - 2.5 kV @ 60 s Power		
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Shore hardness jackel 90 ± 5 Shore A Freedom from ingredients (jacket) lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 4.5 mm Tolarance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter insulation 1.25 mm Outer diameter tolerance core insulation 1.25 mm Outer diameter insulation 1.9 ± 5 Shore D Ingredient freeness wire insulation 1.45 % Amount wires 4 Conductor consessection (vive) 0.34 mm ² Diameter of single wires 0.1 mm Conductor type (vive) 0.34 mm ² Diameter of single wires 0.01 mm Conductor type (vive) 0.34 mm ² Current load capacity (standard) to DIN VDE 0280-4 Current load capacity (standard) to DIN VDE 0280-4 Current load capacity min. wire 4.8 A Electrical resistance line constant wire 57 CArm @ 20 °C AC withstand voltage (wire - vire) 2.5 kV @ 60 s		
Freedom from Ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,5 mm Tolerance outer diameter (jacket) 5 % Material wire insulation PP Amount wires 4 Outer diameter (isualian) 125 mm Outer diameter (isualian) 125 mm Outer diameter (isualian) 70 ± 5 % broe D Shore hardness wire insulation 70 ± 5 % broe D Ingredent freeness wire insulation 164 free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor or sossection (wire) 0.34 mm ² Material conductor wire Stranded copper wire, bare Conductor or sossection (wire) 0.34 mm ² Conductor or sossection (wire) 3.5 km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wink) 4.8 A Electrical resistance 2.5 kV @ 60 s Min. operating temperature (stalic) -40 °C Max. operating temperature (stalic) -40 °C		90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Anount wires 4 Outer diameter insulation 1,25 mm Outer diameter insulation ± 5 % Shore hardness wire insulation ± 5 % Improvement tolerance core insulation ± 5 % Shore hardness wire insulation 1 ead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crossection (wire) 0.34 mm ² Material conductor wire Stranded coppor wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (min, wire 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation UV resistance Good, applicati		lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter insulation 1.5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, OFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crossection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity min, wire 4.8 A Electrical resistance line constant wire 57 DKm @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - inc) 2.5 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) 50 °C / 10000 h Operation UV resistance Din C N Oic C / 10000 h Operation <t< td=""><td>Outer-diameter (jacket)</td><td>4,5 mm</td></t<>	Outer-diameter (jacket)	4,5 mm
Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crossection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Noninal voltage AC max. 000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire · wire) 2,5 kV @ 60 s Mar. operating temperature (static) -40 °C Max. operating temperature (static) -0 °C <	• ·	±5%
Outer diameter insulation1,25 mmOuter diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation70 ± 5 Shore DImgredient Treeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crossection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor vireStranded copper wire, bareConductor twiceStranded copper wire, bareConductor wireStranded copper wire, bareCurrent load capacity trainwire4,8 AElectrical resistanceStrander WireAc withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - wire)2,5 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperatureDIN EN ISO 4892 2 AFlame resistance	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor vices Stranded copper wire, bare Conductor vice Stranded copper wire, bare Current Load capacity (kindard) to DIN VDE 0298-4 Current Load capacity (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s 2,5 kV @ 60 s Min. operating temperature (statc) -40 °C Max. operating tempe	Amount wires	4
Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor rossection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current Load capacity (standard) to DIN VDE 0298-4 Max operating temcontaure (standard) 2,5 kV @ 60 s Power frequency withstand voltage (wire - is, 2,5 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Power frequency withstand voltage (wire - is, 5 °C Operating temperature (static)	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor crossection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent Load capacity (standard)to DIN VDE 0298-4Current Load capacity (standard)57 0km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire -2,5 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (stadd)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUI E1581 § 1000 J IEC 60332-2-2 J UL 1581 § 1100 FT2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanc	Outer diameter tolerance core insulation	±5%
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crossection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Betritistand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 42,5 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -25 °C	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor orsssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 2,5 kV @ 60 s Power frequency withstand voltage (wire - is 7,0km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) 10 N (D 26 °C °L 1000 h Operation <td>Ingredient freeness wire insulation</td> <td></td>	Ingredient freeness wire insulation	
Conductor crosssection (wire)0.34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2,5 KV @ 60 sPower frequency withstand voltage (wire - igacket)2,5 KV @ 60 sNin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1000 IEC 60332-2:2 UL 1581 § 1100 FT2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil re	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Electrical resistance line constant wire 57 Q/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - izck W @ 60 s 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -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 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - jacket) -40 °C Min. operating temperature (static) -40 °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 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Oil resistance Good,	Conductor crosssection (wire)	0,34 mm ²
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 57 Q/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (ixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (ixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) -25 °C IV resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gil resistance Good, application-related testing Oil resistance Good, application-related te	Material conductor wire	Stranded copper wire, bare
	Conductor type (wire)	strand class 6
Current load capacity min. wire4,8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - jacket)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °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 § 1000 IEC 60332-2-2 UL 1581 § 1100 FT2 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) 10 m @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °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 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil 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) 10 m @ 25 °C Traversing distance (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDi resistance10 N w Outer diameter <td>Electrical resistance line constant wire</td> <td>57 Ω/km @ 20 °C</td>	Electrical resistance line constant wire	57 Ω/km @ 20 °C
jacket)2.5 N @ 60 SMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 m @ 25 °CTraversing distance (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		2,5 kV @ 60 s
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 X Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDin resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Operating temperature min. (dynamic)	-25 °C
Flame resistanceUL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistanceGood, application-related testingOil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Flame resistance	UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
Oil resistanceGood, application-related testing DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)10 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track)10 m @ 25 °C horizontalTravel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Traversing distance (C-track)	10 m @ 25 °C horizontal
Torsion stress ± 180 °/m	Travel speed (C-track)	3 m/s @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min

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: 2024-05-19

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