

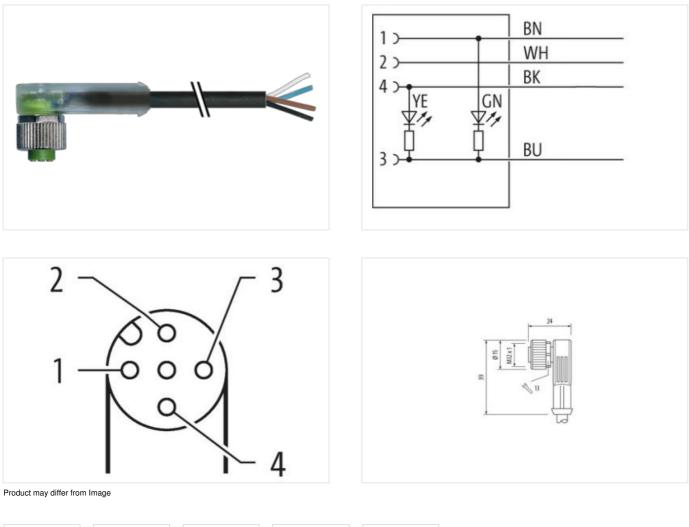
M12 female 90° A-cod. with cable LED

PUR 4x0.34 bk UL/CSA+drag ch. 15m

Female 90° 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





15 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 M12 × 1
Thread	
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-6.1	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
ustoms tariff number	85444290
GTIN	4048879203449
Packaging unit	1
Electrical data Supply	
Deperating voltage DC	24 V
Dperating voltage DC min.	18 V
Operating voltage DC max.	30 V
Dperating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
Installation Connection	
Nounting set	M12 x 1
Device protection Electrical	
Pollution Degree	3
Rated surge voltage	0,8 kV
Aaterial group (IEC 60664-1)	
	·
Mechanical data Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
ocking material	Zinc die-casting
Naterial screw connection	Zinc die-casting
Mechanical data Mounting data	
Nounting 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	
lote on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
late on bourding various	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	
Note on bending radius Conformity	
-	DIN EN 61076-2-101 (M12)

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Cable Methodshon 654 Cable Type 3 Cable Type 3 Cable Type Disck Type of Catrinata CPLus Annount stranding 1 Stranding 4 wirds twisted Marine Tangement brown, Nack, blue, white Stacker weigh 36.3 gm Marine Talgosted PUR Stronding Gaber weigh 96.5 Shorn A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, allicone-free Outer dameter (strands) 4.5 % Marine Wire insulation PP Amount Wire 4 Outer dameter insulation 1.5 % Shore hardness wire insulation 1.25 Nm Duter dameter insulation 1.25 Shore D Ingredient freeness wire insulation 1.45 % Shore hardness wire insulation 1.45 % Dameter of single wrise 0.1 mm Carductor type (wire) 0.34 mm ² Marine divers 0.0 mm Carductor type (wire) 3.4 mm ² Carductor type (wire) </th <th>wire arrangement</th> <th>brown, black, blue, white</th>	wire arrangement	brown, black, blue, white
jacket Color black control of the second sec	Cable identification	634
Jackser Color black Type of Carilicate cUPus Mound stranding 1 Stranding 4 wires Mulsed wires arrangement brown, black, blue, while Cable weigh 58,3 g/m Material jacket PUR Strending 92,5 Strore A Freedom from ingredients (jacket) 94,5 Strore A Dater diameter (jacket) 45,5 m Tolerance outer diameter (sheath) 2,5 % Material wire insulation PP Material wire insulation PP Material wire insulation 12,5 mm Dater diameter insulation 14,0 free, cadmum-free, CPC-free, halogen-free, silicone-free Marount strand (wire) 42 Dater diameter insulation 12,5 mm Dater diameter insulation 14,0 free, cadmum-free, CPC-free, halogen-free, silicone-free Marount strand (wire) 0,3 mm² <t< td=""><td>Cable Type</td><td>3</td></t<>	Cable Type	3
Amount stranding 1 Binanding 4 wires twisted Wires arrangement brown, black, blue, white Cable weigh 36.3 g/m Material gackat PUR Shore hardness jackat 90 ± 5 Shore A Shore hardness jackat 90 ± 5 Shore A Outer damotel (acket) 4.5 mm Outer damotel (acket) 4.5 m Outer damotel (acket) 4.5 % Matarial wrise insulation 1.25 mm Outer damotel (acket) 1.25 mm Outer damotel (acket) 4.2 mm Mount Wires 4.2 Outer damotel (acket) 4.2 mm Mount Wires 4.2 Outer damotel (acket) 1.25 mm Dameter o single wires 0.1 mm Dameter o single wires 0.1 mm Dameter o single wires 0.1 mm <t< td=""><td>Jacket Color</td><td>black</td></t<>	Jacket Color	black
Stranding 4 wires twisted wire arrangement brown, black, blue, while Scale weigh 36,3 g/m Waterial jacket1 90 ± 5 Shore A Peredom Tom ingredients (jacket) 90 ± 5 Shore A Precodom Tom ingredients (jacket) 4,5 mm Duter-dimenter (jacket) 4,5 mm Duter-dimenter (jacket) 4,5 mm Outer dimenter insulation PP Amount Wries 4 Outer dimenter insulation 1,25 mm Duter dimenter insulation 1,47 mm Regress wire insulation 1,47 mm Conductor wires 5,11 mm Conductor wire Stranded copper wire, bare Conductor wire Stranded copper wire, bare Conductor wire 2,51V @ 60 s Prever textores, Wire Miniker 4,0 Current toad capapaity (min wire <	Type of Certificate	cURus
wire arrangement brown, black, blue, white Cable weight 36,3 g/m Material jackal PUR Shore hardness jacket 90 + 5 Shore A Freaded from ingredients (jackal) 4,5 mm Outer diamoter (jackal) 4,5 mm Tolerance outer diameter (sheath) 4,5 % Material wire insulation PP Manoutt Wires 4 Outer diameter (sheath) 1,5 % Share hardness wire insulation 1,5 % Duter diameter to insulation 7,0 ± 5 Shore D Duter diameter to insulation 1,5 % Share hardness wire insulation 1,6 mm Outer diameter to insulation 1,6 mm Outer diameter to insulation 1,0 mm Diameter of aingle wires 0,1 mm Conductor type (wire) Strand class 6 Normial Voltage AC max. 300 V Current load capacity (standard) 1,0 NVD E 0298-4 Current load	Amount stranding	1
Cable weigh 36.3 g/m Material Jacket PUR Shore hardness jacket 90.5 Shore A Freedom from ingredients (jacket) 1.6 Shore A Duter-diameter (jacket) 4.5 mm Orderance uter diameter (sheath) 4.5 mm Orderance uter diameter (sheath) 4.5 % Material wire insulation PP Amount wires 4 Outer diameter tolerance core insulation 1.25 mm Duter diameter tolerance core insulation 1.5 fm Duter diameter tolerance core insulation 1.5 fm Duter diameter tolerance core insulation 1.5 fm Diameter of single wires 0.1 mm Conductor rosses wire insulation 0.1 mm Conductor type (wire) 0.34 mm ² Variant voltage AC max. 300 V Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (stand	Stranding	4 wires twisted
Waterial jacket PUR Bhroe hardness jacket 90 15 Shroe A Freedom Trom Ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter diameter (jacket) 4.5 mm Tolarance outer diameter (shealth) ± 5 %. Material wire insulation PP Annout vires 4 Duter diameter insulation 1.25 mm Duter diameter insulation 1.25 mm Duter diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1.26 mm Manut strands (wire) 42 Diameter of single wires 0,1 mm Conductor vire Stranded copper wire, bare C	wire arrangement	brown, black, blue, white
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter diameter (jakekt) ± 5 % Valaterial wire insulation PP Annount wires 4 Duter diameter (insulation 1.25 mm Duter diameter insulation 1.25 mm Duter diameter insulation 1.25 mm Duter diameter insulation 1.25 % Shore hardness wire insulation 1.25 % Duter diameter insulation 1.25 % Shore hardness wire insulation 1.26 shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Dameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Valaterial conductor wire Stranded copper wire, bare Conductor tripe (wire) strand class 6 Vornal voitage 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)<	Cable weigth	36,3 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free Duter-diameter (jacket) 4,5 mm Toerrance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Duter diameter folerance core insulation ± 5 % Duter diameter folerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient free.ess wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Mount strands (wire) 42 Diameter of single wires 0,1 mm Conductor cossection (wire) 0,34 mm ³ Material conductor wire Stranded copper wire, bare Conductor wire Strand class 6 Nominal voltage AC max. 300 V Current load capacity (mix wire 57 CMm @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency Withstand voltage (wire - wire) 2,5 kV @ 60 s Vire, operating temperature (mixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Diparature min. (dynamic) -25 °C	Material jacket	PUR
Duter diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) 1:5 % Material wire insulation PP Amount wires 4 Duter diameter insulation 1,25 mm Duter diameter insulation 12.5 km Duter diameter insulation 12.5 km Duter diameter insulation 12.5 km Shore hardness wire insulation 12.5 km Ingredient Treeness wire insulation 1ead-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 Conductor rev (wire) Stranded copper wire, bare Conductor verw (wire) Stranded copper wire, bare Current toad capacity finit, wire) 2,5 kV @ 60 s Verrent toad capacity min, wire 2,5 kV @ 60 s Win. oparature	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 % Waterial wire insulation PP Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter insulation 1.5 % Shore hardness wire insulation 70 ± 5 % Duter diameter insulation 1.25 mm Duter diameter solution 1.25 mm Control formaces wire insulation 1.25 fm Diameter of single wires 0.1 mm Conductor rosses wire insulation 0.34 mm² Diameter of single wires 0.1 mm Conductor vires solution 9.34 mm² Material conductor wire Stranded copper wire, bare Conductor vires solution 0.34 mm² Material voltage (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) ID IN VDE 0298-4 Current load capacity (standard) ID IN VDE 0298-4 Current load capacity (wine - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Nin. operating temperature (static) 40 °C Min. operatin	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 4 Duter diameter insulation 1,25 mm Duter diameter insulation 1,25 km Duter diameter discance core insulation 1,5 % Shore hardness wire insulation 12,5 khore 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 rosssection (wire) 0.34 mm² Conductor vire Stranded copper wire, bare Conductor vipe (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 (wire-wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Din operating	Outer-diameter (jacket)	4,5 mm
Amount wire service 4 Duter diameter insulation 1.25 mm Duter diameter insulation 25 % Shore hardness wire insulation 12 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 mm ³ Conductor vire Stranded cooper wire, bare Conductor vire Stranded cooper 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) 0	Tolerance outer diameter (sheath)	± 5 %
Duter diameter insulation 1.25 mm Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 12 ± 5 Shore D Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor crosssection (wire) 0.34 mm ³ 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 028-4 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 Win. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Deperating temperature max. (dynamic)	Material wire insulation	PP
Duter 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 Mount strandk (wire) 42 Diameter of single wires 0,1 mm Conductor crossection (wire) 0,34 mm² Conductor type (wire) stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0288-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (minic) 2,5 kV @ 60 s Win. op	Amount wires	4
Shore hardness wire insulation 70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor 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)57 Ω Km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - acket).2,5 kV @ 60 sWin. operating temperature (static)-40 °CWax. operating temperature (static)-40 °CWax. operating temperature (static)-25 °COperating temperature (static).25 °COperating temperature (static)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AEnter ceistanceUI 1581 § 1000 IEC 60332-2-2 I UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingDil resistanceGood, application-related testingCalour code (c-track)10 m @ 25 °CNo. of bending cycles (C-track)10 m @ 25 °CNo. of bending cycles (C-track)10 m @ 25 °CNo. of bending cycles (C-track)10 m @ 25 °C </td <td>Outer diameter insulation</td> <td>1,25 mm</td>	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeArnount strands (wire)42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)stranded copper wire, bareCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Ac withstand voltage (wire - wire) $2,5 kV \oplus 60 s$ Power frequency withstand voltage (wire - accepted to the forget on the forge	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor yere (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) to DIN VDE 0298-4 Current load capacity (wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 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 min. (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 Gasoline resistance Good, application-related testing Dirensitiance Good, application-related testing Dirensitance Good, application-related	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires 0,1 mm Conductor crosssection (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 (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 40 °C Max. operating temperature (static) 40 °C Departing temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Dyperating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Dyperating temperature (fixed) 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 Di resistance Good, application-related testing Banding radius (fixed) 5 x Outer diameter No. ot bending cycles (C-track) 10 Mio. @	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (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 min. wire 4,8 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - acket) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 40 °C Min. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Diversitance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1000 h Operation UV resistance Good, application-related testing Gasoline resistance Good, application-related testing DI resistance Good, application-related testing	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 (standard) 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) -40 °C Wax. operating temperature (static) -40 °C Deperating temperature (static) -40 °C Wax.operating temperature (static) -40 °C Deperating temperature (static) -55 °C Deperating temperature (static) -25 °C Deperating temperature (static) 80 °C / 90 °C @ 10000 h Operation	Diameter of single wires	0,1 mm
Conductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire $57 \Omega_k m @ 20 °C$ AC withstand voltage (wire - wire) $2.5 kV @ 60 s$ Power frequency withstand voltage (wire - $2.5 kV @ 60 s$ Vin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CVore frequency withstand voltage (wire - $2.5 kV @ 60 s$ Vin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CVore acket)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)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 testingColl residue (fixed) $5 \times Outer diameter$ Bending radius (fixed) $5 \times Outer diameter$ Rending radius (fixed) $10 \times 025 °C$	Conductor crosssection (wire)	0,34 mm²
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 - acket) 4.0 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Doperating temperature (static) -40 °C Max. operating temperature (static) -40 °C Doperating temperature (static) -40 °C Max. operating temperature (static) -40 °C Doperating temperature (static) -25 °C Operating temperature max. (dynamic) -25 °C 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 IEC 60332-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing <	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Q/km @ 20 °CAC withstand voltage (wire - wire)2.5 kV @ 60 sPower frequency withstand voltage (wire - acket)2,5 kV @ 60 sNin. 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 min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN ENI ISO 4892-2 AFlame resistanceUL 1581 § 1000 IEC 60332-2-2 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingDir so testing cycles (C-tr	Conductor type (wire)	strand class 6
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 - acket) 2,5 kV @ 60 s Win. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Opperating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Opperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4882-2 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 Dil resistance Good, application-related testing I DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 Nio. @ 25 °C No. of bending cycles (C-track) 10 Mio. @ 25 °C No. of bending cycles (C-track) 10 m @ 25 °C No. of torsion cycles 2 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 - acket) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Vin. 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 Dil resistance Good, application-fold testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (cforack) 10 Mio. @ 25 °C No. of bending cycles (C-track) 10 m @ 25 °C horizontal Traver sing distance (C-track) 10 m @ 25 °C	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (ixed) 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 No. of bending cycles (C-track) 10 with meter No. of bending cycles (C-track) 10 m @ 25 °C Traversing distance (C-track) 10 m @ 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 - acket) 2,5 kV @ 60 s Win. 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 No. of bending cycles (C-track) 10 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Electrical resistance line constant wire	57 Ω/km @ 20 °C
acket) 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 Dil volter diameter 10 × Outer diameter Bending radius (dynamic) 10 × Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C horizontal Traversing distance (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. <td>AC withstand voltage (wire - wire)</td> <td>2,5 kV @ 60 s</td>	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
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 Dil 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 </td <td>Power frequency withstand voltage (wire - jacket)</td> <td>2,5 kV @ 60 s</td>	Power frequency withstand voltage (wire - jacket)	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 testingDil 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 °C horizontalTraversing distance (C-track)3 m/s @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Min. operating temperature (static)	-40 °C
Deperating 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 testingDil resistanceI0 x Outer diameterNo. of bending cycles (C-track)10 m @ 25 °CTravel speed (C-track)10 m @ 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 testingOil 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 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 m@ 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
Dil 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 diameter Bending radius (dynamic) 10 x Outer diameter 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	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 × Outer diameter 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	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 horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 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.
Forsion 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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