

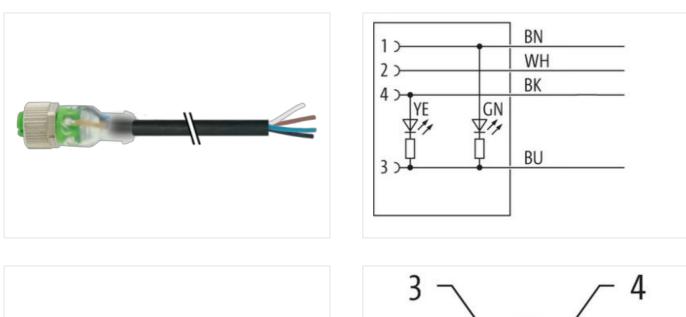
M12 female 0° A-cod. with cable LED

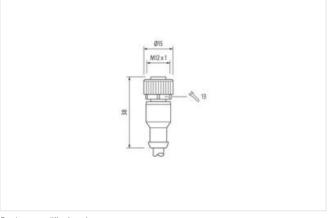
PUR 4x0.34 bk UL/CSA+drag ch. 10m

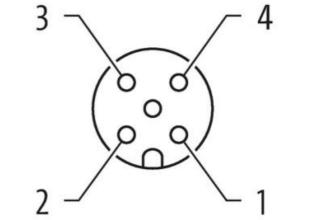
Female straight M12, 4-pole 2× LED (PNP) Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths 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: 2024-05-10

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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal \emptyset)	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	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	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	
-	DIN EN 61076-2-101 (M12)

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Cabb Type 3 Jacket Cólr blok Type of Cortificate cURus Amount stranding 1 Stranding 4 vies bvisted wire arrangement brown, black, blue, white Cabb evelgh 8.3 g/m Material jacket 90 5 Shore A Strone handness jacket 90 5 Shore A Teacdom from ingedients (jacket) 16 5 % Outer-charmeter (jacket) 4.5 mm Outer-charmeter (jacket) 4.5 mm Outer-charmeter insulation 1.5 % Material wire insulation 1.5 % Outer diameter insulation 1.5 Smm Outer diameter insulation 1.5 Smm Duter diameter insulation 1.5 Smm Strone handness were insulation 1.5 Smm Ingredient freeness were insulation 1.5 Smm Duter diameter insulation 1.4 Smm Anount yere insulation 1.4 Smm Outer diameter insulation 1.5 Smm Ingredient freeness wire insulation 1.5 Smm Outer diameter insulation 1.5 Smm	Cable identification	634
Type of Certificate cu/Rus Amount stranding 1 Stranding 4 wise Nvitad Wire arrangement brown, black, blue, white Cable weigh 58.3 g/m Material jacket PUB Strone handress isolet 90.5 Shore A Freedom from ingedents (lacket) 4.5 mm Tolerance outer diameter (global) 4.5 mm Tolerance outer diameter (shealth) 2.5 % Amount Wros 4 Outer diameter insulation 1.25 mn Outer diameter insulation 1.25 mn Outer diameter insulation 70.1 5 Shore D Ingredient Trenews were insulation 8.0 Mm Conductor crossection (wire) 0.34 mm² Conductor were swire insulation 8.0 Mm Conductor were swire insulation 10.DN VDE 6286-4 Current oad capacity min. wire 4.8 A </td <td>Cable Type</td> <td>3</td>	Cable Type	3
Anount stranding 1 Stranding 4 wires totaled Wrier arrangement brown, black, ble, while Cable weigh 38.3 g/m Material jacket PUR Strone hardness jacket 90 5 Shore A Freedom from ingredients (acket) lead free, cadmum free, CPC-free, halogen free, alicone-free Uider damater (glacket) 4.5 m Tolerance outer diameter (sheath) ± 5 % Material jacket PP Anount wites 4 Outer diameter (sheath) ± 5 % Material (sold) 12 S mm Outer diameter insulation 70 5 Shore D Shore hardness wite insulation 12 S mm Outer diameter insulation 12 S fore D Ingredient freeness wite insulation 12 S fore D March 1 Stands (w/e) 42 Diameter of angle wires 0,1 mm Conductor crossection (w/e) 0.34 mm² Material conductor wire SToch Marchess and Cooper wire, bare Conductor type (wire) strand cade cooper wire, bare Conductor type (wire) strand cade cooper wire, bare Contedior type (wire) 2.5 kV @ 80 s	Jacket Color	black
Stranding 4 wire st wisted wire arrangement brown. black, bue, white Cable weigh 38.3 µm Material jacket PUR Shore hardness jackat 90 1 5 Shore A Freedom from ingredients (jacket) 4.5 mm Tolerance outer diameter (jacket) 4.5 mm Tolerance outer diameter (jacket) 1 5 % Amount writes 4 Outer diameter insulation PP Amount writes 4 Outer diameter insulation 1 5 % Shore hardness wire insulation 1 5 % Shore hardness wire insulation 1 25 % Outer diameter tolerance core insulation 1 5 % Shore hardness wire insulation 1 8 % Manuet stands (wire) 42 Diameter of single wire 0,1 mm Conductor wires Admater 5 Stranded copper wire, bare Conductor wires Admater 5 Tol NM @ 20 °C Current load capacity (strandard) to D IN VDE D28-4 Current load capacity (strandard) to D IN VDE D28-4 Current load capacity min. wire 4.8 A	Type of Certificate	cURus
wire arrangement brown, black, blue, white Cable weight 36.3 g/m Matrini Jackst PUR Shore hardness jackaft 90.1 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 % Matrini Jacket PP Amount Wriee 4 Outer diameter insulation 1.25 mm Outer diameter insulation 1.25 mm Could diameter insulation 1.25 mm Could diameter insulation 1.25 % Shore hardness wire insulation 1.25 mm Conductor core insulation 1.83 mm Conductor recover outer diameter insulation 1.26 mm Ingredient freeness wire insulation 1.25 mm Conductor recoversection (wire) 0.34 mm ³ Material conductor wire Shanded copper wire, bare Conductor recoversection (wire) 0.34 mm ³ Material conductor wire Shanded copper wire, bare Conductor vires Shanded copper wire, bare Co	Amount stranding	1
Cable weight 36,3 g/m Material jacket PUR Shore hardness jacket 90,5 Shore A Freedom from ingredients (jacket) lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (gaked) 4,5 mm Outer diameter insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter insulation 70 ± 5 Shore D Ingredient frieness wire insulation 70 ± 5 Shore D Ingredient frieness wire insulation 1,25 mm Outer diameter visualiation 1,25 mm Conductor crossescion (wire) 0,34 mm ² Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor vire Stranded copper wire. bare Conductor vire Stranded das 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DN VDE 0298-4 Current load capacity (standard) to DN VDE 0298-4 Current load capacity (standard) to DN VDE 0298-4 Current load capacit	Stranding	4 wires twisted
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) 4,5 mm Tolerance outer diameter (jacket) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 16 ± 5 % Material orbita (wire) 42 Diameter of single wires 0.1 mm Conductor trapsection (wire) 0.34 mm ² Material conductor wire Strand class 6 Normial voltage A C max. 300 V Courset load capacity min, wire 4.8 A Electrical resistance line constant wire 57 Okm @ 20 °C Ac withstand voltage (wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire) 2.5	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 Outer diameter (jacket) ± 5 % Material wire insulation PP Anount wires 4 Outer diameter (sheath) ± 5 % Material wire insulation 1.25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1.25 mm Outer diameter tolerance core insulation 1.25 shore D Ingredient freeness wire insulation 1.24 5 Shore D Ingredient freeness wire insulation 1.24 5 Shore D Ingredient freeness wire insulation 1.24 5 Shore D Conductor type (wire) 0.34 mm ² Conductor type (wire) 5tranded copper wire, bare Conductor type (wire) stranded copper wire, bare Conductor type (wire) strande dose 6 Normial voltage AC max. 300 V Current load capacity (standard) to DIN VDE 029 C Ac withstan voltage (wire - wire) 2.5 KV @ 60 s	Cable weigth	36,3 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,5 mm Toberance outer diameter (sheath) 2,5 % Material wire insulation PP Anount wires 4 Outer diameter insulation 125 mm Outer diameter insulation 125 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 124 mm Anount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crossection (wire) 0,34 mm ² Material conductor wire Stranded copper wire, bare Conductor trossection (wire) 0,34 mm ² Material conductor wire Stranded copper wire, bare Conductor trossection (wire) 4,8 A Electrical resistance line constant wire 57 D/Mm @ 20 °C A constant outgae (wire - wire) 2,5 k/V @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating tem	Material jacket	PUR
Outer-diameter (jacket) 4,5 mm Tolerance outer (diameter (cheath)) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter rolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation i as the cambination of the cambinati	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 % Material vire insulation PP Anount vires 4 Outer diameter insulation 1,25 mm Outer diameter insulation ± 5 % Shore hardness wire insulation ± 5 % Imagedient treeness wire insulation ± 5 % Diameter of single wires 0,1 mm Conductor crossection (wire) 0.34 mm² Diameter of single wires 0,1 mm Conductor trossection (wire) 0.34 mm² Carrent 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 Mix. operating temperature (stalic) -40 °C Max. operating temperature (stalic) 40 °C / 90 °C @ 10000 h Operation	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 4 Outer diameter isulation 1.25 mm Outer diameter toterance core insulation 15 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient treeness wire insulation 16ad-free, cadmium-free, CFC-free, halogen-free, silicone free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor wire Stranded copper wire, bare Carrent coda capacity (standard) to IN VDE 0284.4 Current coda capacity (mire - wire) 2.5 kV @ 60 s Min: operating temperature (stalic) -40 °C Mix: operating temperature (stalic) -40 °C Mix: operating tempera	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 1e 5 % Shore hardness wire insulation 1e 3 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 orsessection (wire) 0.34 mm² Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity wire) 2,5 KV @ 60 s Power frequency withstand voltage (wire - 2,5 KV @ 60 s Max: operating temperature (static) -40 °C Max: operating temperature (static) -	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Imgredient freeness wire insulation lead/tree, 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 vive() 0,34 mm² Conductor vive() stranded copper wire, bare Conductor wire Stra P Core totad capacity min.	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 wire Stranded copper wire, bare Conductor wire Stranded copper wire, bare Conductor by (wire) strand class 6 Norninal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Gaustinge (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - zistance 2,5 kV @ 60 s Min. operating temperature (static) 40 °C	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 toad capacity (standard) to DIN VDE 0298-4 Max operating temperature wire 57 ΩKm @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (stati) 80 °C / 90 °C @ 10000 h Operation	Outer diameter insulation	1,25 mm
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 ² 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) to DIN VDE 0298-4 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 - zig kV @ 60 s 2,5 kV @ 60 s Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Gasoline resistance DIN EN SO 4892-2 A Flame resistance	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 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) 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 (static) -40 °C Max. operating temperature min. (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 Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Good, application-related testing IDIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (f	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 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 - lasted wire - lasted wire) 2,5 kV @ 60 s Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (mixed) 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 Oil resistance Good, application-related testing Oil resistance Good, application-related testing I DIN EN 60811-4004 Bending radius (fixed) 5 × Outer diameter Bending radius (fixed) 5 × Outer diameter No. of bending cycles (C-track)	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 (standard) 2,5 kV @ 60 s AC withstand voltage (wire - wire) 2,5 kV @ 60 s Jacket 80 °C / 90 °C @ 10000 h Operation Operating temperature (static) -40 °C Max. operating temperature (static) -25 °C Opperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame 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 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 (static) -40 °C Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance UL 1581 § 1090 IEC 6032-2-2 UL 1581 § 1100 FT2 chemical resistance Good, application-related test	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 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 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	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 Operating temperature max. (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 Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-t	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 Ω/km @ 20 °CAC withstand voltage (wire - wire)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 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-	Conductor type (wire)	strand class 6
Current load capacity min. wire4,8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)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 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 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 m @ 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 (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 radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 Nio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C (horizontal Traversing distance (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion s	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)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 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 testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)10 m@ 25 °CTraversing distance (C-track)10 m @ 25 °CNo. of torsion cycles2 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 testingDin x Outer diameterBending radius (fixed)5 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	Electrical resistance line constant wire	57 Ω/km @ 20 °C
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 testingNo. of bending cycles (C-track)10 Nio. @ 25 °CTraversing distance (C-track)10 m @ 25 °C horizontalTraversing distance (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 m @ 25 °CTravel 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 testingDin gradius (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 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	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 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 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	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 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 °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: 2024-05-10

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