

M12 male 0° A-cod. with cable

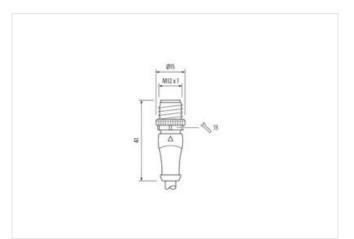
PUR 4x0.34 bk UL/CSA+robot+drag ch. 2m

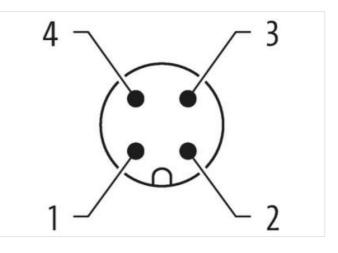
Male straight M12, 4-pole with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

Link to Product









Product may differ from Image



Cable length	2 m	
Side 1		
Tightening torque	0,6 Nm	

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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	M10
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	4048879451963
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	250 V
Operating voltage DC max.	250 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation Connection	
	N404
Mounting set	M12 x 1
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	2,5 kV
Material group (IEC 60664-1)	I
Mechanical data Material data	
Coating locking	safe-cover coated
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data Mounting data	
	inserted, screwed, Shaking protection
Mounting method	
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	



Cable identificationB54Cable Type5Jackel ColorblackType of CarlificatecultureAmount stranding1Stranding4 wires twistedMarinal jacketDown, black, blue, witheCable weight95.8 g/mMarinal jacketPUFStranding4 wires twistedCable weight95.8 g/mMarinal jacketPUFFreedem from ingradients (jacket)104.7 ros., cadnium free, CFC free, halogen free, allocen freeOuter - diameter (heath)4.5 %.Toferance outer diameter (heath)4.5 %.Amount stranding wei instantionPPAnount wirds4Outer diameter (instantion)1.25 mmOuter diameter instantion1.25 mmOuter diameter instantion1.00 mm <th>wire arrangement</th> <th>brown, black, blue, white</th>	wire arrangement	brown, black, blue, white
Jacket Color black Type of Certification cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, while Callo weigh 36 g/m Matterial jacket PUR Shore hardness jacket FUR Shore hardness jacket FUR Duber diamoter (igckwi) 4.7 mm Tolerance outic diamote (inclus) 4.5 % Material andres (igckwi) 4.7 mm Tolerance outic diamote (inclus) 5 % Material andres (inclus) 1.25 mm Outer diameter insulation 1.25 mm Canduct respective insulation 1.86 / Yee, Cachmum-free, CFC-free, halogen-free, silicone-free Arrount strand (wire) 42 Diameter diangly wins 0.1 mm Canductor ripse (wire) 54 and coopt-wire, bare Canductor ripse (wire)	Cable identification	654
Type of Certificate cURus Amount stranding 1 Stranding 4 wise twisted Wire arrangement brown, black, blue, white Cable weigh 58,3 gm Material jacket PUR Strare fragment brown, black, blue, white Cable weigh 58,3 Shore D Freedom from ingedents (gacka) 4,4 Trum Tolerance outer diameter (glockal) 4,7 Trum Tolerance outer diameter (glockal) 4,7 Trum Cuber diameter insulation PP Amount wires 4 Cuber diameter insulation 1,25 rum Cuber diameter insulation 1,4 S Shore D Imgredent fraems were insulation 1,4 S Shore D Imgredent fraems were insulation 1,4 S Shore D Imgredent fraems were insulation 1,4 S Shore D Cuber diameter insulation 1,4 S Shore D Cuber diameter insulation 1,4 S Shore D Candeutor type were insulation 1,4 S Shore D Candeutor type (wire) 0,34 rum? Candeutor type (wire) 1,8 C Mass Candeu	Cable Type	5
Amount stranding 1 Stranding 4 wires twisted Wrier arrangement brown, black, ble, white Cable weight 9.6.3 g/m Material jacket PUR Share hardness jacket 9.8.3 Shore D Freedom from ingredients (acket) lead-free, cadinum-free, CPC-free, halogen-free, silicone-free Outer-diameter (indext) 1.5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1.25 rm Outer diameter insulation 1.4 % Nament strands (wire) 4.2 Nament strands (wire) 4.2 Nament strands (wire) 4.2 Dameter tolerance core insulation 1.4 % Maunt strands (wire) 4.2 Dameter tolerance core insulation 1.4 % Maunt strands (wire) 0.1 mm Conductor crossection (wire) 0.34 mm ² Material conductor wire 0.01 NV DE 0298-4 Current load capacity (insurvire) 2.5 kV @ 60 s Nominal voltage ACmax. 300 V Current load capacity (insurvire) 2.5 kV @ 60 s Power Inoguetary wi	Jacket Color	black
Stranding 4 wires twisted wire arrangement brown, black, blew, white Cable weigh 36,3 ym Material jacket PUR Shore hardness jacket 58 ± 3 Shore D Freedom fram ingredients (jacket) 4.7 rm Tolerance outer diameter (jacket) 4.7 rm Tolerance outer diameter (jacket) 4.7 rm Outer diameter (jacket) 4.7 rm Outer diameter insulation PP Amount wires 4 Outer diameter insulation 1.25 rm Outer diameter insulation 7.4 : 3 Shore D Ingredient freeness wire insulation 7.4 : 3 Shore D Ingredient freeness wire insulation 7.4 : 3 Shore D Conductor types (wire) 9.3 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal votage AC max. 500 V Current load capacity (mixe) 2.5 kV @ 50 s Power toquery withstand votage (wire) 2.5 kV @ 50 s Power toquery withstand votage (wire) 2.5 kV @ 50 s Power toquery withstand votage (wire)<	Type of Certificate	cURus
wire arrangement brown, black, blue, white Cable weigh 36.3 g/m Matrial jacket PUR Shore hardness jacket 58 s 3 Shore D Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 4.7 mm Tolerance outer diameter (jacket) 4.5 % Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter insulation 1.45 % Shore hardness wire insulation 1.45 % Conductor or socket (wire) 0.34 mm ² Diamater of single wires 0.1 mm Conductor wire Stranded copper wire, bare Conductor wire Stranded copper wire, bare Conductor wire Stranded copper wire, bare Conductor wire CStranded copper wire, bare Conductor wire Stranded copper wire, bare Conductor wire Stranded copper wire, bare Conductor wi	Amount stranding	1
Cable weigh 36,3 g/m Material jacket PUR Shore hardness jacket 58,3 Shore D Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 4,7 mm Colorance outer diameter (shall) 1,5 % Matorial wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter insulation 1,5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation 74 ± 3 Shore D Conductor crossection (wire) 0,34 mm ² Conductor vice Stranded coper wire, bare Conductor vice Stranded coper wire, bare Conductor vice Stranded coper wire, bare Conductor vice (wire) Stranded coper w	Stranding	4 wires twisted
Material jacket PUR Shore harchess jacket 58 ± 3 Shore D Freedom from ingredients (jacket) Iead Aree, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 4,7 mm Tolerance outer diameter (jacket) 4,7 mm Material wire insulation PP Amount wires 4 Outer diameter insulation 125 mm Outer diameter insulation 14 5 % Shore hardness wire insulation 14 5 % Material wire insulation 74 ± 3 Shore D Ingredient Teeness wire insulation 1ead free, cadmium-free, CFC-free, halogen-free, silicone-free Amount stranks (wire) 42 Diameter of single wires 0,1 mm Conductor rossection (vire) 0.34 mm ² Material conductor wire Strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standar	wire arrangement	brown, black, blue, white
Shore hardness jackel 56 ± 3 Shore D Freadom from ingredients (jacket) lead free, cadmium free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter tolerance ocre insulation 1,25 mm Outer diameter tolerance ocre insulation 1,4 % M Tolerances wire insulation 1,4 % 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount wire Strand decoper wire, balagen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor rossection (wire) 0,34 mm² Aderial conductor wire Strand decoper wire, bare Conductor rope (wire) strand dass 6 Normial voltage AC max. 300 V Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 Ωkm @ 20 ° C Ac withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. operating temperature (static) -25 °	Cable weigth	36,3 g/m
Freedom from ingredients (jacket) lead free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 4,7 mm Tolerance outer diameter (jacket) 4 5 % Material wire insulation PP Amount Wires 4 Outer diameter (solution) 1,25 mm Outer diameter (solution) 1,24 mm Amount strands (wire) 42 Diameter of single wires 0,11 mm Conductor or sossection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor togossection (wire) 9,54 mm² Material conductor wire Stranded copper wire, bare Current load capacity (slandard) to DIN VDE 0298-4 Current load capacity (slandard) to DIN VDE 0298-4 Current load capacity (slandard) to DIN VDE 02 0° C AC withstand voltage (wire - wire) 2,5 kV @ 60	Material jacket	PUR
Outer-diameter (acket) 4,7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter rolerance core insulation 1.25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 1.4 ± 3 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 cossection (wire) 0.34 mm² Material conductor wire Stranded cosper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0289-4 Current load capacity (standard) to DIN VDE 0289-4 <t< td=""><td>Shore hardness jacket</td><td>58 ± 3 Shore D</td></t<>	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath) \pm 5 %Material wire insulationPPAmount wires4Outer diameter Insulation1.25 mmOuter diameter Insulation1.25 mmOuter diameter Iolerance core insulation \pm 5 %Shore hardness wire insulation74 \pm 3 Shore DIngredient freeness wire insulation126 mmConductor crossection (wire)0.34 mm ² Diameter of single wires0.1 mmConductor crossection (wire)0.34 mm ² Conductor crossection (wire)0.34 mm ² Conductor vice Standed copper wire, bareConductor vice (wire)Stranded copper wire, bareCurrent load capacity (strandard)to DIN VDE 0298.4Current load capacity (wire)4.0 °CAc wirestiant wortage (wire - wire)2.5 kV ϕ 60 sMin. operating temperature (static)40 °CMax. operating temperature (static)40 °CMin. operating temperature (static)40 °COperating temperature max. (dynamic)25 °COp	Freedom from ingredients (jacket)	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 5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation 142 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 min, wire 4.8 A Electrical resistance ine constant wire 60.0 km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - ignerature (static)) -40 °C Max. operating temperature (static) -40 °C Max operating temperature (static) -40 °C Ver resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, applicat	Outer-diameter (jacket)	4,7 mm
Amount wires 4 Outer diameter insulation 1.25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 1.4 3 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 crosssection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 000 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN WE 029 °C AC withstand voltage (wire - 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Operation temperature (static) -40 °C Gasoline resistance DIN EN ISO 4892-2 A	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation tead-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 Material conductor wire Stranded copper wire, bare Conductor toye (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 Ωkm @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892 2 A Flame resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 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 vires Stranded copper wire, bare Conductor wire Stranded copper wire, bare Conductor vire Stranded copper wire, bare Current Load capacity min, wire 4,8 A Electrical resistance in constant wire 60 Ω/km @ 20 °C Ac withstand voltage (wire - wire) 2,5 kV @ 60 s Min, operating temperature (iked) 80 °C / 90 °C @ 10000 h Operation Operating temperature	Amount wires	4
Shore hardness wire insulation 74 ± 3 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 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 Power frequency 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 kV @ 60 s Power frequency withstand voltage (wire) 2,5 kV @ 60 s Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation UV resistance UL 1581 § 1101 FT2 IEC 60332-2.2 UL 1581 § 1090 Chemical resistance Good, application-related testing Oil resist	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 rossection (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) 60 D Km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s 10000 h Operation Max. operating temperature (istalic) -40 °C Mas. operating temperature (istalic) -40 °C Mas. operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application-related testing <	Outer diameter tolerance core insulation	±5%
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 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 80 °C / 90 °C @ 10000 h Operation 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) 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 IDN EN 60811-404 Bending radius (fixed) 5 x Outer diameter </td <td>Shore hardness wire insulation</td> <td>74 ± 3 Shore D</td>	Shore hardness wire insulation	74 ± 3 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 Electrical resistance line constant wire 60 0/m @ 0 °C Power frequency withstand voltage (wire - irequency withstand voltage (vire - irequency withstand voltage irequency (vireq itequency - irequency irequency (virequency - ireq	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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 - iacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)-25 °COf odd, application-related testingGasoline resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090ohemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingGil resistanceGood, application-related testingGold application-related testing0Gil resistanceGood, application-related testingBending radius (fixed)5 x Outer diameterNo. of bending cycles (C-track)10 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CNo. of bending cycles (1 Mio.10 x.Traver sign distance (C-track)5	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 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - inclease) 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 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 UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) <t< td=""><td>Diameter of single wires</td><td>0,1 mm</td></t<>	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 60 Ω/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 (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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance Good,	Conductor crosssection (wire)	0,34 mm ²
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire60 0/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 (static)-40 °CMax. operating temperature (ised)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 § 1100 FT2 IEC 60332-2.2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)5 m @ 25 °CNo. of bending cycles (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Material conductor wire	Stranded copper wire, bare
	Conductor type (wire)	strand class 6
	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 60 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) 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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 5 m @ 25 °C Traversing distance (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio. Travel speed (C-track) 5 m @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDiversion gradius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 m @ 25	Electrical resistance line constant wire	60 Ω/km @ 20 °C
jacket)2.5 kV @ b0 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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical 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)5 m @ 25 °CNo. of torsion cycles1 Mio.Tarson stress± 360 °/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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingNo. of bending cycles (C-track)10 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical 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)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDil resistanceGood, application-related testingDil 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 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistanceDIN EN ISO 4892-2 AFlame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical 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)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Operating temperature min. (dynamic)	
Flame resistanceUL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090chemical 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)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/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)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
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)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	chemical resistance	
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)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/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)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m		Good, application-related testing DIN EN 60811-404
No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 5 m @ 25 °C horizontal Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track)5 m @ 25 °C horizontalTravel speed (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m		
Travel speed (C-track) 3,3 m/s @ 25 °C No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles 1 Mio. Torsion stress ± 360 °/m	Traversing distance (C-track)	5 m @ 25 °C horizontal
Torsion stress ± 360 °/m	Travel speed (C-track)	3,3 m/s @ 25 °C
	No. of torsion cycles	1 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 360 °/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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