

## M12 male 0° A-cod. with cable

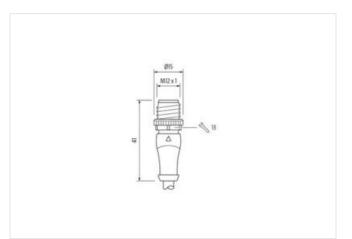
PUR 4x0.34 bk UL/CSA+robot+drag ch. 20m

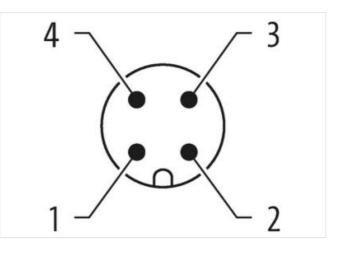
Male straight M12, 4-pole with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product









Product may differ from Image



Cable length	20 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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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879822435
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	
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)	
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	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	-25 °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)
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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 Maska       Cande	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 <sup>2</sup> 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 Indequercy 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 <sup>2</sup> 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 <sup>2</sup> 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 <sup>2</sup> 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 °C     AC withstand voltage (wire - wire)   2,5 kV @ 60 s	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 <sup>2</sup> Diameter of single wires0.1 mmConductor crossection (wire)0.34 mm <sup>2</sup> Conductor crossection (wire)0.34 mm <sup>2</sup> 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 $\phi$ 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     Max. operating temperature (static)   -40 °C	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 <sup>2</sup> 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       Max. 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 <sup>2</sup>
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)	
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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	
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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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