

## M12 male 0° A-cod. with cable

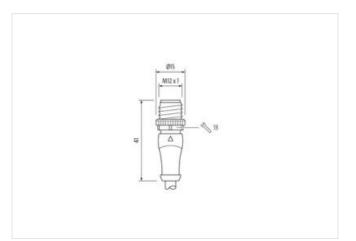
PUR 4x0.34 bk UL/CSA+robot+drag ch. 1m

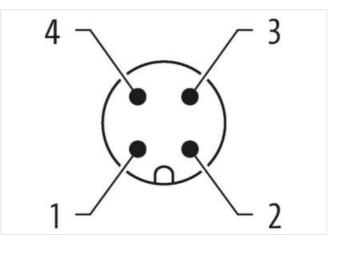
Male straight M12, 4-pole with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product









Product may differ from Image



Cable length	1 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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	N10
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	4048879217705
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.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	

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Cabb is confilication     054       Cabb Type     5       Jacket Color     black       Type of Cartificate     clFuia       Anount stranding     1       Stranding     4 wires wisited       Wire arrangement     borw, bluck, blux, white       Cabb weight     96.8 g nm       Matrial jacket     PUF       Strain furthise is jacket     58.1 3 Shore D       Freedom from ingredients (acket)     4.7 mm       Tolerance outer diameter (releate)     4.7 mm       Tolerance outer diameter (releate)     4.7 mm       Tolerance outer diameter insulation     P.9       Amount wires     4       Cuter diameter insulation     1.25 mm       Outer diameter insulation     1.25 mm       Outer diameter insulation     4.8       Romat strands (wire)     42       Diameter of single wires     0.1 mm       Conduct or hyde (wire)     4.2       Diameter of single wires     0.1 mm       Conductor hyde (wire)     0.34 mm <sup>2</sup> Diameter of single wires     0.1 mm       Conductor hyde (wire)     2.	wire arrangement	brown, black, blue, white
Jacket Coor     black       Type of Certificatie     cl.Rus       Amount stranding     1       Stranding     4 wires twisted       wire arrangement     brown, black, blue, while       Cablo weigh     36 g/m       Material jacket     PUR       Shore hardness jacket     F8 ± 3 Shore D       Freedom from ingredents (jacket)     lead-stree, cadmium-free, CFC-free, halogen-free, alicone-free       Outer-diameter (jacket)     4.       Outer-diameter (jacket)     5 5 %       Material wein insulation     PP       Amount wins     4       Outer diameter treatments one insulation     1.25 mm       Outer diameter treatments wein insulation     74 ± 3 Shore D       Ingredent treanses weir insulation     1.84 * Shore D	Cable identification	654
Type of Certificate     cURus       Amount stranding     1       Stranding     4 vices Nvisted       Wire arrangement     brown, black, blue, white       Cable weigh     58.3 g/m       Maturial jackot     PUR       Stron bandfisse jackat     58 ± 3 Strone D       Freedom from ingedents (gacka)     18.8 ± 3 Strone D       Freedom from ingedents (gacka)     4.7 mm       Tolerance outur diamoter (gacka)     4.7 mm       Tolerance outur diamoter (gacka)     4.9 ************************************	Cable Type	5
Amount stranding   1     Stranding   4 wires twisted     Wrie arrangement   brown, black, blie, white     Cable weight   36.3 g/m     Material jacket   PUR     Stranding (jacket)   PUR     Strand hardness jacket   68.4 3 Shore D     Freedom from ingredients (jacket)   lead-free, cadmum-free, CFC-free, halogen-free, silicone-free     Outer diameter (jacket)   4.7 mm     Tolerance outer diameter (sheath)   ± 5 %     Matorial wire insulation   PP     Amount wires   4     Outer diameter insulation   1.25 mm     Outer diameter insulation   1.4 3 Shore D     Ingredient freeness wire insulation   lead-free, cadmum-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   0.1 mm     Conductor or ossection (wire)   0.34 mm²     Material conductor wire   0.10 NDE 0298-4     Current load capacity (itandard)   to DIN VDE 0298-4     Current load capacity (itandard)   to D	Jacket Color	black
Stranding     4 wires twisted       wire arrangement     brown, black, bue, witte       Cable weigh     36.3 ym       Material jacket     58 ± 3 Shore D       Freadom from ingrodients (jacket)     68 ± 3 Shore D       Freadom from ingrodients (jacket)     4.7 mm       Tolerance outer diameter (jacket)     4.7 mm       Tolerance outer diameter (jacket)     4.7 mm       Outer diameter insulation     PP       Amount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     7.4 ± 3 Shore D       Tigredient freeness wire insulation     7.4 ± 3 Shore D       Tigredient freeness wire insulation     7.4 ± 3 Shore D       Tigredient freeness wire insulation     1.7 mm       Conductor wire     Strand ed copper wire, bare       Conductor wire     Strand ed copper wire, bare       Conductor type (wire)     strand ed copper wire, bare       Conductor wire     Strand ed copper wire, bare       Conductor wire (wire)     Strand ed copper wire, bare       Conductor wire     Strand ed copper wire, bare       Conductor wire (wire)     Strand ed copper wire, bare <td>Type of Certificate</td> <td>cURus</td>	Type of Certificate	cURus
wire arrangement     brown, black, blue, white       Cable weight     36,3 g/m       Material jackat     PUR       Shore hardness jacket     58 2.3 Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, allicone-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 %       Shore hardness wire insulation     lead-free, cadmium-free, CFC-free, halogen free, allicone-free       Amount strank (wire)     42       Diameter of single wires     0.1 mm       Conductor wire (wire)     0.3 mm <sup>2</sup> Oraductor from exection (wire)     0.4 mm <sup>2</sup> Oraductor wire     Stranded copper wire, bare       Conductor wire (wire)     0.4 mm <sup>2</sup> Diamater of lange Arma.     300 V       Current lead capacity (standard)     to DIN VDE 0298.4       Current lead capacity (standard)     to DIN VDE 0298.4       Current lead capacity mixine     6.0 C/Xm @ 2.0 °C	Amount stranding	1
Gabie weight     36,3 g/m       Material jacket     PUR       Shohe 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       Order diameter (jacket)     4.5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     7.4 ± 3 Shore D       Ingredent freeness wire insulation     7.4 ± 3 Shore D       Ingredent freeness wire insulation     7.4 ± 3 Shore D       Conductor crosssection (wire)     0.34 mm <sup>2</sup> Conductor view     Stranded copper wire, bare       Conductor view     Stranded capper wire, bare       Conductor view (wire)     stranded cas 6       Nominal voltage AC max.     300 V       Current load capacity (strandard)     to DN VDE 0298-4       Current load capacity (strandard)     to DN VDE 0298-4       Current load capacity (strandvoltage (wire - wire)     2.5 kV @ 60 s       Power frequency withstard voltage (wire - wire)     2.5 kV @ 60 s       Power frequency withstard volta	Stranding	4 wires twisted
Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D       Freedom Tion ingredients (jacket)     Iead Area, castilum-rfee, CPC-free, halogen-free, silicone-free       Outer diameter (jacket)     4.7 mm       Tolerance outer diameter (jacket)     4.7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount stards     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     74 ± 3 Shore D       Ingredient treeness wire insulation     1.45 mm       Canduct crosssection (wire)     0.34 mm <sup>2</sup> Diameter of single wires     0,1 mm       Canductor rowssection (wire)     0.34 mm <sup>2</sup> Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Namial voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard) <t< td=""><td>wire arrangement</td><td>brown, black, blue, white</td></t<>	wire arrangement	brown, black, blue, white
Shore hardness jacket     S8 ± 3 Shore D       Freedom from ingredients (jacket)     lead-free, cadmium-free, CPC-free, halogen-free, silicone-free       Outer diameter (jacket)     4.7 mm       Tolarance outer diameter (shealth)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     7.4 ± 3 Shore D       Ingradient freeness wire insulation     lead-free, cadmium-free, CPC-free, halogen-free, silicone-free       Amount wires     4       Conductor crossection (view)     0.34 mm <sup>2</sup> Conductor rossection (view)     0.34 mm <sup>2</sup> Conductor view (wire)     Strand class 6       Nominal voltage AC max.     300 V       Current load capacity min. wire     4.8 A       Electrical resistance line constant wire     60 Gkm @ 20 °C       Act withstand voltage (wire)     2.5 kV @ 60 s       Power frequency withstand voltage (wire)     2.5 kV @ 60 s       Indica resistance line constant wire     60 °C 190 °C @ 10000 h Operation       Operating temperature (stattc)     40 °C       Max. operating temperature (stattc)     25 °C  <	Cable weigth	36,3 g/m
Freedom from ingradients (jackat) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Outer-diameter (jackat) 4,7 mm   Tolerance outer diameter (sheath) 1 5 %   Material wire insulation PP   Amount wires 4   Outer diameter (sheath) 1 5 %   Shore hardness wire insulation 1 25 mm   Outer diameter tolerance core insulation 1 5 %   Shore hardness wire insulation 74 ± 3 Shore D   Ingradent freeness wire insulation 74 ± 3 Shore D   Ingradent freeness wire insulation 1 42   Diameter of single wires 0,1 mm   Conductor or sossection (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 0284-4   Current load capacity (standard) to DIN VDE 0284-4   Current load capacity (standard) 2,5 kV @ 60 s   Power frequency withstand voltage (wire - xire) 2,5 kV @ 60 s   Min. operating temperature (fixed) 40 °C   Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation   Operating temperature mice (Maymic) 25 °C   Operating temperature mice (Maymic) 58 °C	Material jacket	PUR
Outer-diameter (jacket)     4,7 mm       Tolerance outer diameter (jacket)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter risulation     1.25 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     74 ± 3 Shore D       Ingredent freeness wire insulation     lead-tree, cadmium-free, CFC-free, halogen-free, allicone-free       Amount strands (wire)     42       Diameter of single wires     0.1 mm       Conductor type (wire)     0.34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strande class 5       Nominal voltage AC max.     300 V       Current load capacity (strandard)     to DIN VDE 0298-4       Current load capacity (strandard)     to C / 0 C       Max. op	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath) $\pm$ 5 %Material wire insulationPPAnount wires4Outer diameter insulation1,25 mmOuter diameter insulation1,25 mmOuter diameter insulation74 $\pm$ 3 Shore DIngredient freeness wire insulation42Diameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor crosssection (wire)0,34 mm²Conductor viceStranded copper wire, bareConductor viceStranded copper wire, bareConductor wireStranded copper wire, bareCurrent load capacity min. wire4,8 AElectrical resistance line constant wire60 QLK m@ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMix. operating temperature (static)-40 °CQuertal temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h Op	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation     PP       Anount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     25 %       Shore hardness wire insulation     74 ± 3 Shore D       Ingredient freeness wire insulation     142       Diameter of single wires     0,1 mm       Conductor cossesction (wire)     0,3 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,Mm @ 20 °C       AC withstand voltage (wire - wire)     2,5 kV @ 60 s       Power frequency withstand voltage (wire - grace)     2,5 kV @ 60 s       Jackel)     40 °C       Max. operating temperature (static)     44 °C       Ver resistance     DIN CP 200 °C # 10000 h Operation       Operating temperature (static)     40 °C       Max. operating temperature (static)     40 °C       Max. operating temperature (static)     40 °C       Max. operating temperature (static)     40 °C       Ve	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 rossection (wire)   0.34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   estand 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 Ωhm @ 20 °C     AC withstand voltage (wire - usite)   2.5 kV @ 60 s     Power frequency withstand voltage (wire - 2.5 kV @ 60 s   5     Power frequency withstand voltage (wire - 2.5 kV @ 60 s   60 Ωhm @ 2.5 kV @ 60 s     Maioperating temperature (static)   -40 °C     Masoperature (max)   60 °C / 90 °C @ 10000 h Operation     Operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation	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       Imgredent Thereness wire insulation     tead/free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor rossesction (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor to wire     Stranded copper wire, bare       Conductor wire     Stranded copper wire, bare       Conductor to wire     Stranded copper wire, bare       Conductor wire     Stranded copper wire, bare       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       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -25 °C       Operating temperature min. (dynamic)     60 °C /9 °C @ 10000 h Operation       UV resistance     DIN EN ISO 4892 2 A       Flame resistance     Good, a	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 wire   Stranded copper wire, bare     Conductor wire   Stranded copper wire, bare     Conductor by (wire)   strand class 6     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (nin, wire   4.8 A     Electrical resistance line constant wire   60 Ωkm @ 20 °C     AC withstand voltage (wire - wire)   2.5 kV @ 60 s     Min: operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -25 °C     Operating temperature (static)   -25 °C     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 rosseection (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     Operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Operating temperature (static)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   UI IS IS I sillor FT2   IEC 60332-2.2 UL 1581 § 1090     chemical resistance   Good, application-re	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation   lead-free, cdmium-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 operation   strand class 6     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Electrical resistance   is kW @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   UL 1581 's 1100 FT2 [EC 60332-2:2   UL 1581 's 11090     chemical resistance   Good, application-related testi	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 -   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 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 IDIN EN 60811-404     Bending radius (fixed) </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     Current load capacity (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - iter (stail)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (mixed)   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	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)e60 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 (static)-40 °COperating temperature (static)-40 °CMax. operating temperature (static)-25 °COperating 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 testingGasoline resistanceGood, application-related testingGil 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 Min.5 m @ 25 °CNo. of bending cycles (1 Min.5 m @ 25 °CNo. of bending cycles (1 Min.5 m @ 25 °CNo. of bending cycles (1 Min.5 m @ 25 °CN	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 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 - ispace)     2.5 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -25 °C       Operating temperature 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   DIN EN 60811-404<	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   60 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 (static)   -40 °C     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 4992-2 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	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 (iscd)80 °C / 90 °C @ 10000 h OperationOperating temperature (iscd)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 testingDin epsiding radius (dynamic)10 x Outer diameterNo. of bending radius (dynamic)5 °CTraversipg distance (C-track)5 m @ 25 °CNo. of torsion cycles1 Mio.Traversipg distance1 Mio.Torsion stress± 360 °/m	Material conductor wire	Stranded copper wire, bare
$ \begin{array}{c} \hline \text{Current load capacity (standard)} & \text{to DIN VDE 0298-4} \\ \hline \text{Current load capacity min. wire} & 4.8 A \\ \hline \text{Electrical resistance line constant wire} & 60 \ \Omega / \text{km} @ 20 \ ^{\circ}\text{C} \\ \hline \text{AC withstand voltage (wire - wire)} & 2.5 \ \text{KV} @ 60 \ \text{s} \\ \hline Power frequency withstand voltage (wire - and a standard of the standard voltage (wire - and a standard voltage (wire - and woltage (wire - and a standard voltage (wire - and a standard (wire - $	Conductor type (wire)	strand class 6
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)   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     No. of bending radius (dynamic)   10 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 to	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 (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 (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     Oil resistance   Good, application-related testing   DIN EN 60811-404     Bending radius (fixed)   5 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)   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 testingDivert resistanceS × Outer diameterBending radius (fixed)5 × Cuter diameter <td>Electrical resistance line constant wire</td> <td>60 Ω/km @ 20 °C</td>	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 testingNo. of bending cycles (C-track)10 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 m @ 25 °CTraversing distance (C-track)3,3 m/s @ 25 °CNo. of torsion cycles1 Mio.Torsion 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 testing   DIN EN 60811-404Bending radius (fixed)5 x Outer diameterBending 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		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)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	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 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 °CTravel speed (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)	-25 °C
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     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	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)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
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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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