

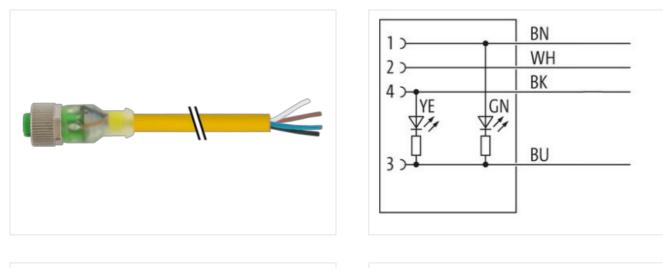
## M12 female 0° A-cod. with cable LED

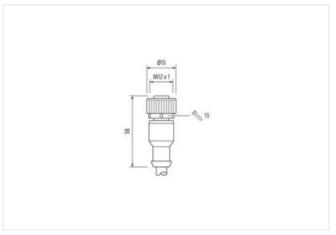
PUR 4x0.34 ye UL/CSA+robot+drag ch. 5m

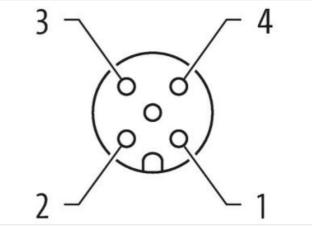
Female straight M12, 4-pole 2× LED (PNP) Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths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

## Link to Product

Illustration







Product may differ from Image



5 m

0,6 Nm

Cable length

Side 1

Tightening torque

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-20

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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	Α
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	4048879327435
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Mechanical data   Material data	
Coating locking	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. Operating temperature max.	-25 °C 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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Cable Type     5       Jacket Color     yellow       Type of Certificate     C/Rus       Arnout stranding     1       Stranding     4 wire kreited       wire arrangement     brown, black, blue, white       Cable Type of Certificate     PUR       Shore hordness jacket     PUR       Shore hordness jacket     PS 9 3 Shore D       Freedom from Ingradients (jacket)     168 9 3 Shore D       Conter-diameter (jacket)     15 %       Material jacket     PUR       Annout stranding     4       Material and we insulation     125 mm       Outer diameter (isolation     1.25 mm       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.26 mm       Outer diameter insulation     1.26 mm       Tord careaco cere insulation     1.26 mm       Conductor crosssection (wire)     42       Diameter of single wires     0.1 mm       Conductor vire     Stranded copper wire, bare       Conductor vire     Stranded copper wire, bare       Conductor vire     Stranded copper wire, bare	Cable identification	054
Type of Cartificate     cURus       Amount stranding     1       Stranding     4 wires twislad       wire arrangement     brown, black, blue, white       Cable weight     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 (leader)     4.7 mn       Tolerance outer diameter (leader)     4.5 %       Amount wires     4       Outer diameter insulation     PP       Amount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.28 mm       Outer diameter insulation     1.28 mm       Conductor crosssection (wire)     0.34 mm?       Katrial dorductor wire     Strande copper wire, bare       Canductor crosssection (wire)     5.7 m @ 25 °C   horizontal       Marrel conductor wire     Strande dopper vire, bare       Canductor crosssection (wire)     2.5 kV @ 60 s	Cable Type	5
Amount stranding     1       Stranding     4 wires twisted       wires arrangement     brown, black, blue, white       Cable weigh     96.3 g/m       Matarial jacket     PUR       Shore hardness jacket     58.4 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)     1.5 %       Material wire insulation     PP       Amount wires     4       Outer diameter (sheath)     1.5 %       Shore hardness wire insulation     1.4 3 Shore D       Tolerance outer wire insulation     1.4 3 Shore D       Tore diameter outer insulation     1.4 3 Shore D       Ingredient freeness wire insulation     1.4 3 Shore D       Ingredient freeness wire insulation     lead-free, cadmum-free, CFC-free, halogen-free, ailcone-free       Amount strend (wire)     42       Diameter of single wires     0.1 mm       Conductor rossection (wire)     0.34 mm <sup>2</sup> Material conductor wire     Stro Add Copper wire, bare       Conductor type (wire)     strand class 6  <	Jacket Color	yellow
Stranding     4 wires twisted       wire arrangement     brown, black, blae, while       Cable weigh     36,3 g/m       Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D       Freedom fram ingrediunts (jacket)     42 free, cadmium/free, CFC-free, halogen free, silicone-free       Outer-diameter (gacket)     4.7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm       Outer diameter insulation     1,25 mm       Outer diameter insulation     74 ± 3 Shore D       Imgredient fleenases wire insulation     74 ± 3 Shore D       Ingredient fleenases wire insulation     74 ± 3 Shore D       Ingredient fleenase wire insulation     74 ± 3 Shore D       Traversing distance Careck     0,1 mm       Conductor or socsection (wire)     0,34 mm <sup>2</sup> Diameter of single wires     0,1 mm       Conductor wire     Stranded copper wire, bare       Conductor wire     Stranded copper wire, bare       Conductor wire     0,1 km <sup>2</sup> Taversing distance (	Type of Certificate	cURus
wire arrangement     brown. black, blue, white       Cable weight     36,3 g/m       Material Jackat     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       Tolerance outer diameter (sheath)     ± 5 %       Material jacket     PP       Amount wires     4       Outer diameter (sheath)     1.25 mm       Outer diameter (sheath)     1.45 %       Shore hardness wire insulation     1.25 mm       Outer diameter (sheath)     2.4 3 Shore D       Ingredient freeness wire insulation     1.4 3 Shore D       Conductor or sossection (wire)     0.34 mm <sup>2</sup> Conductor wire     Stranded copper wire, bare       Conductor wire     Stranded case 6       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Nomina Votage AC max.     300 V	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       Outer diameter (jacket)     4,7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.55 mm       Outer diameter insulation     1.55 mm       Outer diameter insulation     1.45 mm       Outer diameter insulation     1.45 mm       Outer diameter sinsulation     1.45 mm       Outer diameter insulation     1.45 mm       Conductor ressesse wire insulation     1.45 mm       Traversing distance (Nero)     42       Diameter of single wires     0.1 mm       Conductor vire     Stranded copper wire, bare       Conductor vire (wire)     Stranded copper wire, bare       Conductor vire (wire)     strand class 6       Traversing distance (C+track)     5 m @ 25 °C   froit rotal       Nominal voltage AC max.     300 V	Stranding	4 wires twisted
Material jacket     PUR       Shore hardness jacket     58 ± 3 Shore D       Freedom from ingredients (jacket)     4,7 mm       Outer-diameter (jacket)     4,7 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter (sheath)     ± 5 %       Material wire insulation     1.25 mm       Outer diameter insulation     74 ± 3 Shore D       Ingredient freeness wire insulation     74 ± 3 Shore D       Ingredient freeness wire insulation     1ed-free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor or type (wire)     51 strand class 6       Traversing distance (C-rack)     5 m @ 25 CL horizontal       Nominal voltage AG max.     300 V       Current load capacity (standard)     to DN VDE 0298-4       Current load capacity (standard)     to DN M @ 20	wire arrangement	brown, black, blue, white
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       Tolerance outer diameter (jacket)     2 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm       Outer diameter insulation     7 ± 3 Shore D       Ingredient freeness wire insulation     7 ± 3 Shore D       Ingredient freeness wire insulation     7 ± 3 Shore D       Ingredient freeness wire insulation     74 ± 3 Shore D       Conductor crossection (wire)     42       Diameter of single wires     0,1 mm       Conductor rossection (wire)     54 mm²       Material conductor wire     Stranded copper wire, bare       Conductor rossection (wire)     53 m Q25 °C   horizontal       Nominal voltage AG max.     300 V       Current load capacity (standard)     to DIN VDE Cog84.4       Current load capacity (wire wire)     2,5 kV Ø 60 s       Power frequency withstand voltage (wire - wire)     2,5 kV Ø 60 s       Power frequency withstand voltage (wire - wire)     2,5 kV Ø 60 s	Cable weigth	36,3 g/m
Freedom from ingredients (jacket)   lead-free, cadmium-tree, 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 treatment ore insulation   1.25 mm     Outer diameter treatment ore insulation   74 ± 3 Nore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   42     Dameter of single wires   0.11 mm     Conductor crosssection (wire)   0.34 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor vire   Stranded copper wire, bare     Conductor vire (C-track)   6 m @ 25 °C   horizontal     Nominal voltage AC max   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   to OIN rope °C     AC	Material jacket	PUR
Outer-diameter (acket)   4,7 mm     Tolerance outer (ameter (sheath))   ± 5 %     Material wire insulation   PP     Amount wires   4     Outer diameter (sheath)   ± 5 %     Shore hardness wire insulation   1,25 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   1,425 mm     Outer diameter tolerance core insulation   1,43 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 mm <sup>2</sup> Conductor type (wire)   Strandel copper wire, bare     Conductor type (wire)   Strandel copper wire, bare     Conductor type (wire)   Strandel copper wire, bare     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (wire - wire)   2.5 kV @ 60 s     Power frageunge three (static)   -40 °C     Max. operating temperature mix. (dynamic)   -25 °C	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   4     Outer diameter insulation   1.25 mm     Outer diameter lolerance core insulation   ± 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     Ingredient freeness wire insulation   74 ± 3 Shore D     Conductor crossection (wire)   42     Diameter of single wires   0,1 mm     Conductor crossection (wire)   0,34 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C+rack)   5 m @ 25 °C   horizontal     Nominal vottage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation     PP       Amount Wries     4       Outer diameter insulation     1,25 mm       Outer diameter folderance core insulation     ± 5 %       Shore hardness wire insulation     74 ± 3 Shore D       Ingredient freeness wire insulation     1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor type (wire)     5tranded copper wire, bare       Conductor type (wire)     strand class 6       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0284-4       Current load capacity (wire - wire)     2.5 kV @ 60 s       Power frequency withstand voltage (wire - jacktt)     2.5 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     80 °C / 90 °C @ 10000 h Operation       Peare Counce of type and class action - related testing     Gasolito - related testing       Garanting temperature max. (dynamic)     -25 °C       Operating temperature max. (dynamic)     80 °C / 90 °C @ 10000 h Operation	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   74 ± 3 Shore D     Ingredient freeness wire insulation   1e4 ± 3 Shore D     Ingredient freeness wire insulation   1e4 ± 3 Shore D     Ingredient freeness wire insulation   1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor consessection (wire)   0,34 mm³     Material conductor wire   Stranded copper wire, bare     Conductor torsessection (wire)   5 m @ 25 °C   horizontal     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 - insite)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - wire)   2,5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (static)   40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (static)   -40 °C <t< td=""><td>Tolerance outer diameter (sheath)</td><td>±5%</td></t<>	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation     1,25 mm       Quter 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 vise     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (mix- wire)     2,5 kV @ 60 s       Power frequency withstand voltage (wire - iz,5 kV @ 60 s       Min. operating temperature (static)     40 °C       Max. operating temperature (static)     40 °C       Querating temperature (static)     40 °C       Power frequency withstand voltage (wire - iz,5 kV @ 60 s       Min. operating temperature (static)     40 °C <td>Material wire insulation</td> <td>PP</td>	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 crosssection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand dass 6       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Nominal voltage AC max.     300 V       Current load capacity (standard)     to INI VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 029-4       Current load capacity (standard)     to DIN VDE 029-8       Corrent load capacity (standard)     to DIN VDE 029-4 <t< td=""><td>Amount wires</td><td>4</td></t<>	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 rossesction (wire)   0.34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C-track)   5 m @ 25 °C   horizontal     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   60 0.km @ 20 °C     Ac withstand voltage (wire - irre)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - irre)   2,	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 orssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C-track)   5 m @ 25 °C   horizontal     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Material voltage (wire - wire)   2,5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   80 °C / 90 °C @ 10000 h Operation     Plame resistance   UL 1581 § 1090   IEC 60332-2	Outer diameter tolerance core insulation	±5%
Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor rosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C-track)   5 m @ 25 °C   horizontal     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)   60 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - inter)   2,5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (ixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature max. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     Flame resistance   UL 1581 § 1090   IEC 6032-2-2   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Gasoline resistance   DIN EN 60811-404   Good	Shore hardness wire insulation	74 ± 3 Shore D
Diameter of single wires   0,1 mm     Conductor crosssection (wire)   0,34 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C-track)   5 m @ 25 °C   horizontal     Mominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (wire - wire)   2.5 kV @ 60 s     Power frequency withstand voltage (wire - iacket)   2.5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (isted)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (isted)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (isted)   80 °C / 90 °C @ 10000 h Operation     Flame resistance   UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   DIN EN 60811-404   Good, application-related testing     Gasoline resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 × Outer diameter     Bending radius (fixed)   5 × Outer diameter <td>Ingredient freeness wire insulation</td> <td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td>	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C-track)   5 m @ 25 °C   horizontal     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     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 - apacity (standard))   4.8 Å     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Plame resistance   UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Gasoline resistance   DIN EN 60811-404   Good, application-related testing     Gasoline resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fiked)   5 x Outer diameter <td>Amount strands (wire)</td> <td>42</td>	Amount strands (wire)	42
Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C   horizontalNominal 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 (min. wire4.8 AElectrical resistance line constant wire60 Q/km @ 20 °CAC withstand voltage (wire - wire)2.5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2.5 kV @ 60 sNin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature min. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Diameter of single wires	0,1 mm
Conductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire60 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 °CMax. operating temperature (ixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1000   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN Eh 60811-404   Good, application-related testingOil resistanceDIN Eh 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 380 °/m	Conductor crosssection (wire)	0,34 mm²
Traversing distance (C-track)5 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 AElectrical resistance line constant wire60 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 °CMax. operating temperature (ixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1000   IEC 60322-2-2   UL 1581 § 1100 FT2Chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 380 °/m <td>Material conductor wire</td> <td>Stranded copper wire, bare</td>	Material conductor wire	Stranded copper wire, bare
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)   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     Flame resistance   UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Travel speed (C-track)   10 Mio. @ 25 °C     No. of torsion cycles   1 Mio.     Torsion stress   ± 360 °/m	Conductor type (wire)	strand class 6
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 (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature min. (dynamic)   -25 °C     Operating temperature max. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     Flame resistance   UL 1581 § 1000   IEC 60332-2-2   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 × Outer diameter     Travel speed (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
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     Flame resistance   UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 × Outer diameter     Travel speed (C-track)   10 Mio. @ 25 °C     No. of torsion cycles   1 Mio.     Torsion stress   ± 360 °/m	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     Flame resistance   UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 x Outer diameter     Travel speed (C-track)   10 Mio. @ 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 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 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 OperationFlame resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Electrical resistance line constant wire	60 Ω/km @ 20 °C
jacket)2,5 KV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 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 OperationFlame resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 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 OperationFlame resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 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 Operation     Flame resistance   UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 x Outer diameter     Travel speed (C-track)   10 Mio. @ 25 °C     No. of torsion cycles   1 Mio.     Torsion stress   ± 360 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistanceUL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Operating temperature min. (dynamic)	-25 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 x Outer diameter     Travel speed (C-track)   10 Mio. @ 25 °C     No. of torsion cycles   1 Mio.     Torsion stress   ± 360 °/m	Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
Oil resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Bending radius (dynamic)   10 x Outer diameter     Travel speed (C-track)   10 Mio. @ 25 °C     No. of torsion cycles   1 Mio.     Torsion stress   ± 360 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter   Bending radius (dynamic) 10 x Outer diameter   Travel speed (C-track) 10 Mio. @ 25 °C   No. of torsion cycles 1 Mio.   Torsion stress ± 360 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)   10 x Outer diameter     Travel speed (C-track)   10 Mio. @ 25 °C     No. of torsion cycles   1 Mio.     Torsion stress   ± 360 °/m	Oil resistance	DIN EN 60811-404   Good, application-related testing
Travel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles1 Mio.Torsion stress± 360 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 1 Mio.   Torsion stress ± 360 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 360 °/m	Travel speed (C-track)	10 Mio. @ 25 °C
Torsion stress ± 360 °/m	No. of torsion cycles	1 Mio.
Torsion speed 35 cycles/min		± 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: 2024-05-20

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