

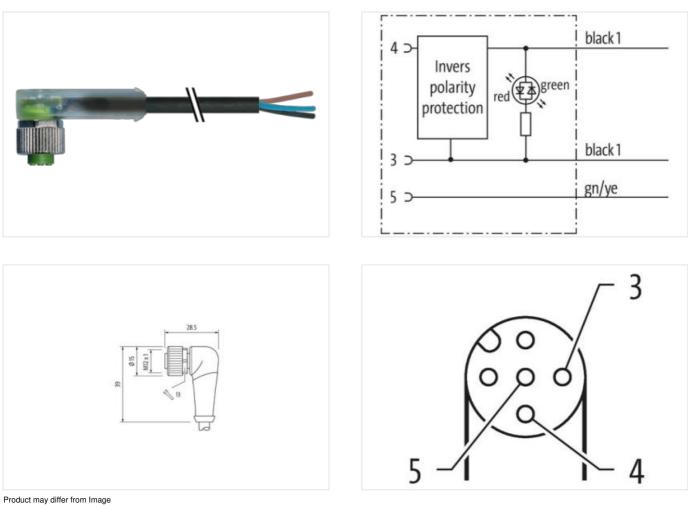
## M12 female 90° A-cod. with cable

PUR 3x0.75 bk UL/CSA+drag ch. 25m

Female 90° M12, 3-pole 2× LED (PNP) Invers-polarity protection 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







Cable length

25 m

0,6 Nm

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: 2024-05-19

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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal $\emptyset$ )	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879568241
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Operating voltage DC min.	20,4 V
Operating voltage DC max.	27,6 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	green, red
Installation   Connection	·
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Installation   Cable	
Cable identification	636

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Intelligencies     white (isolation black)       Jacket Color     black       Type of Certificate     cl.Rus       Amount Standing     1       Stranding     3 vires livitade       Weite arrangement     bback 1, back 2, green-yellow       Gabe weight     55 1 pm       Matural Jackut     PUR       Store handness jacket     90 s 5 Shore A       Freedom from ingedents (jacket)     55 s 7mm       Tolerance suff carenets (glacket)     5 s 7mm       Tolerance suff carenets (glacket)     5 s 7mm       Outer diameter (jacket)     5 5 mm       Outer diameter insulation     1,85 mm       Outer diameter insulation     1,85 mm       Outer diameter insulation     1,85 mm       Store handness win insulation     1 and free, cadmium-free, CPC-free, halogen-free, alicone-free       Printing color of wre insulation     1 and free, cadmium-free, CPC-free, halogen-free, alicone-free       Printing color of wre insulation     1 and free, cadmium-free, CPC-free, halogen-free, alicone-free       Printing color of wre insulation     1 and free, cadmium-free, CPC-free, halogen-free, alicone-free       Printing cond ovre insulation     1 and free, cadmium-fre	Cable Type	3
Type of Certificatie     cURus       Amount stranding     1       Stranding     3 wise builded       Stranding     3 wise builded       Stranding     3 wise builded       Stranding     51 (grown)       Material jacket     PUR       Stron Inderfast jacket     90 ± 5 Shore A       Freedom from ingedents (jacket)     53 mm       Outer diameter (jacket)     53 mm       Outer diameter insulation     12 %       Material wire insulation     13 % mm       Outer diameter insulation     13 % mm       Outer diameter insulation     14 % %       Store hardness wire insulation     14 % %       Insert freeness wire insulation     14 % %       Norm wire insulation     14 % %       Insert freeness wire insulation     14 % %       Mount stranding (wire)     42       Diameter of single wires     0,15 mm       Candudor crossection (wire)     0,75 mm?       Material conductor wire     Stranded copper wire, bare       Candudor troessection (wire)     0,16 mm?       Candudor troessection (wire)     0,17 mm?  <	Printing color of wire insulation	white (isolation black)
Amount stranding     1       Stranding     3 wires twisted       Wrie arrangement     black 1, black 2, green-yellow       Cable weight     66,1 g/m       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (gacket)     lead-free, cadmum-free, CPC-free, halogen-free, silicone-free       Outer-diameter (gheath)     ± 5 %       Material jacket     PP       Amount wires     3       Outer diameter (wheath)     ± 5 %       Shore hardness wire insulation     1.85 mm       Outer diameter insulation     1.85 mm       Outer diameter insulation     1.85 from D       Ingredient treeness wire insulation     tead-free, cadmum-free, CPC-free, halogen-free, silicone-free       Printing color of wire insulation     wires       Outer diameter insulation     tead-free, cadmum-free, CPC-free, halogen-free, silicone-free       Printing color of wires     0.15 mm       Conductor crosseation (wire)     0.75 mm <sup>2</sup> Diameter of single wires     0.15 mm       Conductor biasel (wire)     42       Diameter of single wires     0.15 mm	Jacket Color	black
Stranding     3 wires twisted       wire arrangement     black 1, black 2, green-yellow       Cablo weigh     56,1 ym       Material jacket     PUR       Shore hardness jacket     80 ± 5 Shore A       Freedom from ingredients (jacket)     Isad-Free, cadmum-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     5.9 mm       Outer diameter (iacket)     5.9 mm       Outer diameter insulation     PP       Amount wires     3       Outer diameter insulation     1.85 mm       Outer diameter tolerance core insulation     1.5 %       Shore hardness wire insulation     70 ± 5 Shore D       Tingredient freeness wire insulation     70 ± 5 Shore D       Tingredient freeness wire insulation     1.85 mm       Outer diameter diversition     white isolation black)       Amount strands (wire)     42       Diametor d'ingredient freeness were insulation     1.05 mm       Conductor type (wire)     Strand dospe further, bare       Conductor type (wire)     Strand dospe further, bare       Conductor type (wire)     0.75 mm <sup>2</sup> Tawering datance (Crack)     10 m @ 25 °C Invico/Lat	Type of Certificate	cURus
wire arrangement     black 1, black 2, green-yellow       Cable weight     66,1 g/m       Matrial jacket     PUR       Shore hardness jacket     90.1 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jacket)     5.9 mm       Tolerance outer diameter (jacket)     5.9 mm       Marcial wise insulation     PP       Amount wires     3       Outer diameter (insulation     1.5 %       Shore hardness wire insulation     1.5 %       Shore hardness wire insulation     1.85 mm       Outer diameter insulation     1.85 mm       Togredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Firring color of wire insulation     wire (isolation black)       Amount strands (wire)     0.15 mm       Conductor vire     Biranded copper wire, bare       Conductor vire (wire)     0.15 mm	Amount stranding	1
Cable weight \$6,1 g/m   Material jacket PUR   Freadom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, allicone-free   Outer-diameter (jacket) 5.9 mm   Tolerance outer diameter (seated) 5.9 mm   Tolerance outer diameter (seated) 5.9 mm   Outer diameter (jacket) 5.9 mm   Outer diameter insulation PP   Amount wires 3   Outer diameter insulation 1.85 mm   Outer diameter insulation 1.5 %   Shore hardness wire insulation 1.65 Smre   Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Printing color of wire insulation white (jacket)   Amount strands (wire) 42   Diameter of single wires 0.15 mm   Conductor crossection (wire) 0.75 mmP   Material conductor wire Stranded copper wire, bare   Conductor crossection (wire) 0.75 mmP   Conductor wire (Lacket) 10 m @ 25 °C (Inotzental   Normal distance (C-track) 10 m @ 25 °C (Inotzental   Normal distance (C-track) 10 N VE C298-4   Current load capacity (sindmart) 10 DIN VE C298-4   Current load capacity (sindmart) 10 DIN VE C298-4   Conductor wite 2.5 KV @	Stranding	3 wires twisted
Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom Tion Ingedinsti (jacket)     lead-free, cadmium-free, CFC-free, halogen-free       Oular-diameter (jacket)     5.9 mm       Tolerance outer diameter (jacket)     5.9 mm       Material Wis Insulation     PP       Amount Wries     3       Outer diameter (jacket)     70 ± 5 Shore D       Ingredient Ireeness wire insulation     1.85 mm       Outer diameter (wire)     42       Shore hardness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Printing color of wire insulation     wire (solation black)       Amount strands (wire)     42       Diameter of single wires     0.15 mm       Conductor crossection (wire)     0.75 mm <sup>2</sup> Gonductor vise     Stranded copper wire, bare       Conductor vise (wire)     strand class 6       Traversing distance (b track)     10 m @ 25 °C   horizontal       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 028-4       Current load capacity (standard)     to DIN VDE 028-4       Current load capacity min. wire	wire arrangement	black 1, black 2, green-yellow
Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     lead free, cadmum free, CPC-free, halogen free, silicone-free       Outer-diameter (gacket)     5,9 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter tolerance ore insulation     1.85 mm       Outer diameter tolerance ore insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmum free, CPC-free, halogen-free, silicone-free       Printing color of wire insulation     lead-free, cadmum free, CPC-free, halogen-free, silicone-free       Printing color of wire insulation     white (solation black)       Amount strands (wire)     42       Diameter of single wires     0.15 mm       Conductor orgenesetion (wire)     0.75 mm <sup>2</sup> Conductor wire     Stranded copper wire, bare       Conductor	Cable weigth	56,1 g/m
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Outer-diameter (jacket) 5.8 mm   Tobrance outer diameter (sheath) 1.5 %   Material wire insulation PP   Amount wires 3   Outer diameter insulation 1.85 mm   Outer diameter insulation 1.85 mm   Outer diameter insulation 1.95 %   Shore hardness wire insulation 1.95 %   Ingredent freeness wire insulation 1.95 %   Printing color of wire insulation white (isolation black)   Amount strands (wire) 42   Diameter of alignet wires 0.15 mm   Conductor crosssection (wire) 0.75 mm²   Material conductor wire Stranded copper wire, bare   Conductor (Freek) 10 m @ 25 °C   horizontal   Nominal voltage AC max. 300 V   Current load capacity (standard) to DIN NDE 0288-4   Current load capacity (standard) to DIN NDE 0288-4   Current load capacity (standard) to DIN NDE 0288-4   Current load capacity (wire) 2.5 kV @ 60 s   Advistand voltage (wire ·) 2.5 kV @ 60 s   Marcer requency withstand voltage (wire ·) 2.5 kV @ 60 s   Min. operating temperature (static) 40 °C   Max. operating temperature (s	Material jacket	PUR
Outer-diameter (jacket)     5,9 mm       Tolerance outer (diameter (jacket))     ± 5 %       Material wire insulation     PP       Amount wires     3       Outer diameter (insulation     1,85 mm       Outer diameter insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     16 %       Shore hardness wire insulation     16 % %       Manuart strains (wire)     42       Diameter of single wires     0,15 mm       Gonductor crosssection (wire)     0,75 mm²       Material orductor wire     Stranded copper wire, bare       Conductor viree     Stranded copper wire, bare       Conductor viree     Stranded copper wire, bare       Conductor wire     Stranded copper wire, bare       Current load capacity (standard)     to DIN VDE 0298-4       Current	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) $\pm$ 5 %Material wire insulationPPAmount wires3Outer diameter insulation1.85 mmOuter diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation70 $\pm$ 5 Shore DIngredient freeness wire insulation70 $\pm$ 5 Shore DIngredient freeness wire insulationwhite (Isolation black)Amount strank (wire)42Diameter of single wires0.15 mmConductor crossection (wire)0.75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage (wire)2.5 kV @ 60 sCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4 <td>Freedom from ingredients (jacket)</td> <td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td>	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation     PP       Amount Wires     3       Outer diameter insulation     1.85 mm       Outer diameter insulation     70 ± 5 Shore D       Shore hardness wire insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     70 ± 5 Shore D       Printing color wire insulation     white (solation black)       Amount strands (wire)     42       Diameter of single wires     0.15 mm       Conductor rossesction (wire)     0.75 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     etrand class 6       Traversing distance (C-track)     10 m @ 25 °C   horizontal       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 - strice)     2.5 KV @ 60 s       Power frequency withstand voltage (wire - strice)     2.5 KV @ 60 s       Max. operating temperature (stalic)     -40 °C       Max. operating temperature (stalic)     -40 °C       Max. operating temperature max. (dynamic)     -25 °C       Operati	Outer-diameter (jacket)	5,9 mm
Amount wires 3   Outer diameter insulation 1.85 mm   Outer diameter tolerance core insulation ± 5 %   Shore hardness wire insulation 70 ± 5 Shore D   Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free   Printing color of wire insulation white (solation black)   Amount strands (wire) 42   Diameter of single wires 0.15 mm   Conductor wire (wire) 0.75 mm <sup>2</sup> Material conductor wire Stranded copper wire, bare   Conductor type (wire) strand class 6   Traversing distance (C-track) 10 m @ 25 °C   horizontal   Nominal voltage AC max. 300 V   Current load capacity (stander) to DIN VEE 0298-4   Current load capacity (stander) to DIN VEE 0298-4   Current load capacity (wire - wire) 2.5 kV @ 60 s   Power frequency withstand voltage (wire - zisce) 2.5 kV @ 60 s   Min: operating temperature (staic) -40 °C   Max. operating temperature (staid) 80 °C / 90 °C @ 10000 h Operation   Outre esistance IEC 60332-22 / UL 1581 § 1100 FT2 / UL 1581 § 1090   Oherating temperature (staid) 80 °C / 90 °C @ 10000 h Operation   Outre esistance IEC 60332-22 / UL 1581 § 1100 FT2 / UL 1581 § 1090   Oherating temperature (staid) <td< td=""><td>Tolerance outer diameter (sheath)</td><td>±5%</td></td<>	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation     1.85 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     1ead-tree, camium-free, CFC-free, halogen-free, slicone-free       Printing color of wire insulation     while (isolation black)       Amount strands (wire)     42       Diameter of single wires     0.15 mm       Conductor cosssection (wire)     0.75 mm <sup>3</sup> Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Traversing distance (C-track)     10 m @ 25 °C   horizontal       Nominal voltage AC max.     300 V       Current load capacity mix-wire     12 A       Electrical resistance line constant wire     26 0/km @ 20 °C       AC withstand voltage (wire - wire)     2.5 kV @ 60 s       pawer frequency withstand voltage (wire - stard)     2.5 kV @ 60 s       Min: operating temperature (static)     40 °C       Max. operating temperature (static)     80 °C / 90 °C @ 10000 h Operation       Operating tempera	Material wire insulation	PP
Outer diameter tolerance core insulation     ± 5 %       Shore hardness wie insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, OFC-free, halogen-free, silicone-free       Printing color view insulation     white (isolation black)       Amount strands (wire)     42       Diameter of single wires     0,15 mm       Conductor crosssection (wire)     0,75 mm²       Material conductor wire     Stranded copper wire, bare       Conductor view (sublation black)     42       Diameter of single wires     0,15 mm       Conductor view (wire)     0,75 mm²       Material conductor wire     Stranded copper wire, bare       Conductor by (wire)     strand class 6       Traversing distance (C-track)     10 m @ 25 °C   horizontal       Nominal voltage AC max.     300 V       Current load capacity (standard)     to DIN VDE 0288-4       Current load capacity (standard)     to DIN VDE 0288-4       Current load capacity wire wire)     2,5 kV @ 60 s       Power frequency withstand voltage (wire - isolator)     2,5 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (fixed) <td>Amount wires</td> <td>3</td>	Amount wires	3
Shore hardness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Printing color of wire insulation   white (isolation black)     Amount strands (wire)   42     Diameter of single wires   0,15 mm     Conductor vire   Stranded copper wire, bare     Conductor vire   26 k/W @ 0 s     Min. operating encopacin min. wire   12 A <td>Outer diameter insulation</td> <td>1,85 mm</td>	Outer diameter insulation	1,85 mm
Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Printing color of wire insulation   white (isolation black)     Amount strands (wire)   42     Diameter of Single wires   0,15 mm     Conductor crosssection (wire)   0,75 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C-track)   10 m @ 25 °C   horizontal     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Corter frequency withstand voltage (wire - in	Outer diameter tolerance core insulation	±5%
Printing color of wire insulation   white (isolation black)     Amount strands (wire)   42     Diameter of single wires   0,15 mm     Conductor crossection (wire)   0,75 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C-track)   10 m @ 25 °C   horizontal     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Gurrent load capacity (standard)   to DIN VDE 0298-4     Gurrent load capacity (standard)   to DIN VDE 0298-4     Bedruch undage (wire - wire)   2,5 kV @ 60 s     Power frequency withstand voltage (wire - if 2, 5 kV @ 60 s     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -25 °C     Operating temperature min. (dynam	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire)42Diameter of single wires0.15 mmConductor crosssection (wire)0.75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Electrical resistance line constant wire26 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 min. (dynamic)-25 °COperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)-25 °CIDIN EN ISO 4892-2 AFlame resistanceFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistance<	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires   0,15 mm     Conductor crosssection (wire)   0,75 mm*     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C-track)   10 m @ 25 °C   horizontal     Nominal voltage AC max.   300 V     Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity (min. wire   12 A     Electrical resistance line constant wire   26 Ω/km @ 20 °C     AC withstand voltage (wire - ise (action))   2,5 kV @ 60 s     Power frequency withstand voltage (wire - ise (action))   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)   22 °C     Operating temperature max. (dynamic)   22 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892·2 A     Flame resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-related testing	Printing color of wire insulation	white (isolation black)
Conductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 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)2.5 kV @ 60 sPower frequency withstand voltage (wire - wire)2,5 kV @ 60 sJacket I)2.5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDil resistanceGood, application-related testingBending radius (fixed)5 x Cuter diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Amount strands (wire)	42
Material conductor wire   Strande dopper wire, bare     Conductor type (wire)   strand class 6     Traversing distance (C-track)   10 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 - wire)   2.5 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2.5 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (ixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature max. (dynamic)   -25 °C     Operating temperature max. (dynamic)   -25 °C     UV resistance   IEC 60332-22   UL 1581 § 1100 FT2   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 × Outer diameter     Travel speed (C-track)   10 Mio. @ 25 °C     No. of torsion cyceles	Diameter of single wires	0,15 mm
Conductor type (wire)strand class 6Traversing distance (C-track)10 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. wire12 AElectrical resistance line constant wire26 Q/km @ 20 °CAC withstand voltage (wire - vire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature min. (dynamic)-25 °COperating temperature min. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2 I UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingGaine resistanceGood, application-related testingGaine resistanceGood, application-related testingGaine resistanceGood, application-related testing   DIN EN 60811-404Bending radius (fixed)5 × Outer diameterFlameterElectrical case s c CNo. of torsion cycles2 Mio.Travel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Conductor crosssection (wire)	0,75 mm²
Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2.5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2.5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (ixed)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2 IUL 1581 § 1100 FT2   UL 1581 § 1090Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing </td <td>Material conductor wire</td> <td>Stranded copper wire, bare</td>	Material conductor wire	Stranded copper wire, bare
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 6032-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing<	Conductor type (wire)	strand class 6
	Traversing distance (C-track)	10 m @ 25 °C   horizontal
Current load capacity min. wire   12 A     Electrical resistance line constant wire   26 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   IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   Good, application-felated testing     Din ensistance   I × Outer diameter     Travel speed (C-track)   10 Nio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 180 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sPower frequency withstand voltage (wire - jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDin gradius (fixed)5 x Outer diameterTravel speed (C-track)10 Nio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/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 (ixed)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 resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingBending radius (fixed)5 × Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Current load capacity min. wire	12 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 resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDil resistanceI 0 × Outer diameterBending radius (fixed)5 × Outer diameterTravel speed (C-track)10 N EN @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	Electrical resistance line constant wire	26 Ω/km @ 20 °C
jacket)2,5 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDing radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Min. 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 resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDil resistanceIO vour diameterBending radius (fixed)5 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		2,5 kV @ 60 s
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Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingDing radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     UV resistance   DIN EN ISO 4892-2 A     Flame resistance   IEC 60332-2-2   UL 1581 § 1100 FT2   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     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   2 Mio.     Torsion stress   ± 180 °/m		
UV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1100 FT2   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 diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
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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 diameterTravel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
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Oil resistance   Good, application-related testing   DIN EN 60811-404     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   2 Mio.     Torsion stress   ± 180 °/m		
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   2 Mio.     Torsion stress   ± 180 °/m		
Travel speed (C-track)10 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 180 °/m		
No. of torsion cycles 2 Mio.   Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 180 °/m	Travel speed (C-track)	10 Mio. @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19

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