

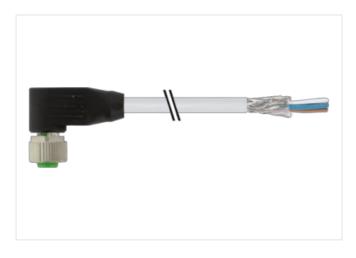
## M12 female 90° A-cod. with cable shielded

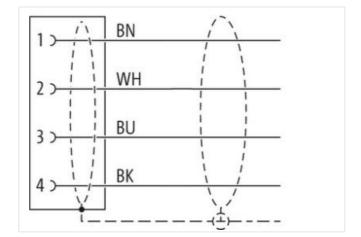
PUR 4x0.34 shielded gy UL/CSA+drag ch. 5m

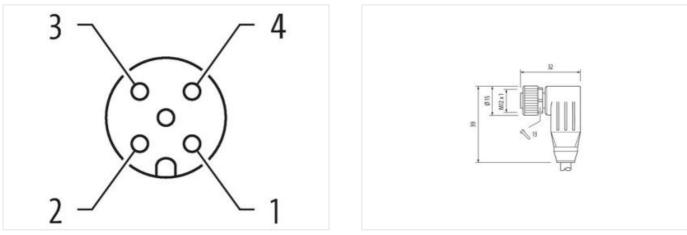
Female 90° M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



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: 2024-05-05

5 m

0,6 Nm

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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
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	4048879434126
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 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	1,5 kV
Material group (IEC 60664-1)	
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.
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 Topo     3       Daket Color     gray       Type of Cerification     cURus       Amount stranding     1       Cable shelding (type)     copper total, fined       Cable shelding (type)     fined, fin	Cable identification	241
Type of Cartificatio     UPUs       Amount stranding     1       Stranding     4 wires twisted       Cable shielding (toyee)     copper braid, timed       Cable shielding (coverage)     89 %       Banding     Filecce, Foil       wire arrangement     bown, black, blue, white       Traversing distance (C-trask)     5 m @ 25 % [Poiscontal       Cable weight     50.6 g/m       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredienti (jackel)     5.3 mm       Outer diameter (insulation     1.25 mm       Outer diameter (insulation     1.25 mm       Outer diameter (insulation     1.25 mm       Outer diameter insulation     1.25 mm       Ingredient freeness wire insulation     1.25 mm       Outer diameter (insulation     1.25 mm       Outer diameter (insulation     1.26 mm       Ingredient freeness wire insulation     1.25 mm       Outer dinameter (insu	Cable Type	3
Amount stranding     1       Stranding     4 wires twisted       Cabb sinking (type)     cooper braid, timed       Cabb sinking (type)     cooper braid, timed       Cabb sinking (type)     50 %       Banding     Fleece, Fol       wire arrangement     brown, black, blue, white       Traversing distance (C+tack)     5 m @ 25 °C [horizontal       Cabbe weigh     50,6 gm       Material jacket     PUF       Shore handness jacket     90 ± 5 Shore A       Freedom from ingredents (jacket)     5.3 mm       Outer-diameter (jacket)     5.3 mm       Outer diameter insulation     PP       Amount wrise     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.5 5 mm       Outer diameter insulation     1.5 5 mm       Shore hardness wire insulation     1.6 5 %       Diameter of single wires     0,1 mm       Conductor type wire     Shore D       Eigedent free-award wire, bare     Context diameter (inclustic)       Outer diameter insulation     1.6 5 %       Material conductor wire     Stranded	Jacket Color	gray
Stranding   4 wires twisted     Cable stricting (type)   copper braid, timed     Cable stricting (coverage)   80 %     Barding   Flocco, Foil     Wrier arrangement   brows, black, blue, while     Traversing distance (C-rack)   5 m @ 25 °C   horizontal     Cable weight   50 & g/m     Material jack   PUR     Shore hardnase jacket   90 ± 5 Shore A     Freedom from ingredients (jacket)   16 ± 5 %     Cuber diameter (locket)   5.3 mm     Tolerance outer diameter (locket)   5.3 mm     Tolerance outer diameter (locket)   5.5 mm     Amount Wires   4     Outer diameter induction   1.25 mm     Conductor traps wire insulation   1.25 mm     Conductor type (wire)   42     Diameter loaring wires   0.1 mm     Conductor type (wire)   strand dosp 6     Amount strands (wire)   4.2     Diameter loaring dosp (strandstrand)   <	Type of Certificate	cURus
Gable sholding (type)     cooper braid, linned       Cable sholding (coverage)     B0 %.       Banding     Fleece, Foll       wire arrangement     brown, black, blow, white       Traversing distance (C-track)     5 m @2 5° C  horizontal       Cable weigh     50,6 g/m       Material jackat     PUR       Shore hardines glack1     90 ± 5 Nore A       Freedom from ingredients (jackat)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jackat)     5.3 mm       Tolerance outer dameter (fauth)     1.5 %       Material were insulation     PP       Amount wires     4       Outer diameter insulation     1.25 mm       Construct resens were insulation	Amount stranding	1
Gable shielding (coverage)     B0 %       Banding     Fleece, Foil       Wrie arrangement     brown, black, ble, white       Travenag diatace (C-track)     5 m @ 25 °C   horizontal       Cable weight     50.8 g/m       Material jacket     PUR       Shore hardness jackal     90.5 5 Shore A       Freedom from ingredents (jackat)     lead free, cadmium free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     5.3 mm       Tolerance outer diameter (jackat)     5 5 %       Amount Wres     4       Outer diameter (jacket)     1.5 %       Shore hardness wire insulation     1.25 mm       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.25 %       Shore hardness wire insulation     1.25 mm       Outer diameter insulation     1.25 %       Ingredent treeness wire insulation     1.83 %       Baching kriss     0,1 mm       Conductor crossection (wire)     0.34 mm <sup>3</sup> Material conductor wire     Nomial otaga (wire)       Outer diapacity (standard)     10 DIN VDE 0298-4       Current load capacity (standard)	Stranding	4 wires twisted
Banding     Fleece, Foll       wire arrangement     brown, black, blue, while       Traversing distance (C track)     5 m @ 25 °C] horizontal       Cable weigh     50.6 g/m       Material jacket     PUR       Shore hardness jacket     90.5 Shore A       Freedom from ingredients (acket)     lea3.4 ree, cadmium-free, CPC-free, halogen-free, silicone-free       Uuer-dameter (acket)     5.3 mm       Tolerance ouler dameter (sheath)     ± 5 %       Material incket     9       Outer diameter insulation     1.25 mm       Outer diameter wire insulation     1.25 mm       Outer diameter wire insulation     1.25 from D       Tolerance core insulation     1.25 mm       Outer diameter rolerance core insulation     1.25 mm       Outer diameter insulation     1.25 from D       Ingredient freeness wire insulation     1.25 mm       Conductor prosesection (wire)     0.34 mm <sup>2</sup> Material and kines     0.1 mm       Conductor prope (wire)     stranded copper wire, bare       Conductor prope (wire)     stranded copper wire, bare       Conductor prope (wire)     stranded copper wire, bare	Cable shielding (type)	copper braid, tinned
wire arrangement     brown, black, blue, white       Traversing distance (C-track)     5 m @ 25 °C ( horizontal ( Cable weight)       Solab weight     90 ± 5 Shore A       Freedom from ingredients (tack)     lead free, cadmium free, CFC free, halogen-free       Outer diameter (galxet)     5.3 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter folerance core insulation     1.25 mm       Outer diameter folerance core insulation     7.9 ± 5 %       Shore hardness wire insulation     7.0 ± 5 Shore D       Ingredient freeness wire insulation     7.0 ± 5 Shore D       Ingredient freeness wire insulation     7.0 ± 5 Shore D       Ingredient freeness wire insulation     7.0 ± 5 Shore D       Ingredient freeness wire insulation     7.0 ± 5 Shore D       Ingredient freeness wire insulation     8.0 ± 42       Diameter of single wires     0.1 mm       Conductor trossection (wire)     0.34 mm²       Material conductor wire)     8 tranded copper wire, bare       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity min, wire     4.8	Cable shielding (coverage)	80 %
Travensing distance (C-track)5 m @ 25 °C   horizontalCable weight50,6 g/mMatorial jacktPURShore hardness jackat90 ± 5 Shore AFreedom from ingredients (jacket)lead-tree, cadmium-free, CFC-free, halogen-free, silicone-freeOuter diameter (jacket)± 5 %Material jacktPPAmount wires4Outer diameter (jacket)± 5 %Shore hardness wire insulation1,25 mmOuter diameter orie insulation1,25 mmOuter diameter orie insulation1,25 mmOuter diameter orie insulation1,25 mmOuter diameter insulation70 ± 5 %Shore hardness wire insulation16 shore AIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)0,34 mm²Conductor crossescelon (wire)0,34 mm²Conductor or cossescelon (wire)0,34 mm²Conductor vireStranded copper wire, bareConductor or cossescelon (wire)0,34 mm²Current load capacity (strand class 6Nominal voltage AC max.300 VCurrent load capacity (strand-strand class 6Nominal voltage (wire - wire)2 kV @ 60 sNominal voltage (wire - wire)2 kV @ 60 sMin. oparating temporature (stad)60 °C / 90 °C 0AC withstand voltage (wire - shield)2 kV @ 60 sMin. oparating temporature (stad)60 °C / 90 °C 0AC withstand voltage (wire - shield)2 kV @ 60 sMin. oparating temporature (stad)60 °C / 9	Banding	Fleece, Foil
Cable weight     50,6 g/m       Material jacket     PUR       Shore hardmess jacket     90,4 5 Shore A       Freedom from ingredients (jacket)     lead free, cadmium free, CFC-free, halogen-free, allicone-free       Outer-diameter (jacket)     5.3 mm       Tolerance outer diameter (shealth)     ± 5 %       Material wire 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 swite insulation     1.25 mm       Outer diameters wire insulation     1.25 mm       Outer diameter swite insulation     1.25 mm       Conductor crosses wire insulation     1.25 mm       Conductor systems wire insulation     1.25 mm       Diameter of single wires     0.1 mm       Conductor vive     Starnded copper wire, bare       Conductor vive     Starnded dopper wire, bare       Conductor vive     Starnded dosper wire, bare       Conductor vive     Starnded dopper wire, bare       Conductor vive     Starnded dosper       Current load capacity min. wi	wire arrangement	brown, black, blue, white
Material jacket     PUR       Shore hardness jackat     90 ± 5 Shore A       Freedom Tom Ingredients (jacket)     lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free       Outer diameter (jackat)     5,3 mm       Tolerance outer diameter (jackat)     1.5 %       Material wire insulation     PP       Amount wires     4       Outer diameter (issulation     70 ± 5 Shore D       Ingredient freeness wire insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     1.25 mm       Outer diameter (jacket)     6.2 %       Shore hardness wire insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     1.45 mm       Conductor type (wire)     0.44 mm <sup>2</sup> Diameter of aling wikes     0,1 mm       Conductor type (wire)     5 stranded copper wire, bare       Conductor type (wire)     5 stranded copper diametera (dase in the comparity)	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     5.3 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     1.25 mm       Dure diameter insulation     1.25 mm       Outer diameter insulation     1.25 mm       Diameter insulation     1.25 mm       Conductor crosses wire insulation     1.25 mm       Ingredient freeness wire insulation     1.25 mm       Conductor or sesses wire insulation     1.25 mm       Conductor or sessesticin (wire)     42       Diameter of single wires     0.1 mm       Conductor tropsecticity (wire)     strand class 6       Nominal voltage AG 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)     to DIN VDE 0298-4 <tr< td=""><td>Cable weigth</td><td>50,6 g/m</td></tr<>	Cable weigth	50,6 g/m
Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free     Outer-diameter (jacket)   5,3 mm     Tolerance outer diameter (jacket)   5,3 mm     Material wire insulation   PP     Amount wires   4     Outer diameter (solution)   1,5 mm     Outer diameter (solution)   1,25 mm     Outer diameter (solution)   1,25 mm     Outer diameter (solution)   1,25 mm     Magnetic (solution)   1,22 mm     Outer diameter (solution)   1,23 mm     Ganductor (solution)   42     Nameter of single wites   0,1 mm     Canductor crossection (wire)   0,34 mm <sup>P</sup> Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Normal voltage (Ar max.   300 V     Current load capacity min. wire   4,8 A     Electrical resistance line constant wire   57 G/km @ 20 °C     Ac withstand voltage (wire - solield) </td <td>Material jacket</td> <td>PUR</td>	Material jacket	PUR
Outer-diameter (jacket)     5,3 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 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       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor cossection (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 0288-4       C	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   PP     Amount wires   4     Outer diameter insulation   1.25 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     Amount strands (wire)   42     Diameter of single wires   0,1 mm     Conductor cossesction (wire)   0.34 mm <sup>2</sup> Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Nominal voltage AC max.   300 V     Current toal capacity (standard)   to DIN VDE 0298-4     Current toal capacity (standard)   to DIN VDE 0298-4     Current toal capacity (wire - wire)   2 kV @ 60 s     AC withstand voltage (wire - vire)   2 kV @ 60 s     Min. operating temperature (staci)   4 4 °C     Maceging temperature (staci)   40 °C     Max operating temperature (staci)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (staci)   80 °C / 90 °C @ 10000 h Operation     Operating temperature (staci)   80 °C / 90	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1.25 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     125 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     Strande copper wire, bare       Current load capacity (kitandard)	Outer-diameter (jacket)	5,3 mm
Amount wires 4   Outer diameter insulation 1.25 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   Amount strands (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   Nominal voltage AC max. 300 V   Current load capacity (standard) to DIN VDE 0298-4   Current load capac	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation     1.25 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       Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor wire     Stranded copper wire, bare       Conductor wire     Strande dose 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 (wine)     2 kV @ 60 s       Power frequency withstand voltage (wire - wire)     2 kV @ 60 s       Ac withstand voltage (wire - shield)     2 kV @ 60 s       Min. operating temperature (katci)     -40 °C       Max. operating temperature (statci)     -40 °C       Max. operating temperature (statci)     80 °C / 90 °C @ 1000	Material wire insulation	PP
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       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 min. wire     4.8 A       Electrical resistance line constant wire     57 Ω/km @ 20 °C       AC withstand voltage (wire - rive)     2 kV @ 60 s       Power frequency withstand voltage (wire - jacket)     2 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -25 °C       Operating temperature min. (dynamic)     -25 °C       Operating temperature min. (dynamic)     50 °C / 90 °C @ 10000 h Operation       Flame resistance     Good. application-related testing       Gold resistance     Good. application-related testing	Amount wires	4
Shore hardness wire insulation   70 ± 5 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 crossection (wire)   0,34 mm²     Material conductor wire   Stranded copper wire, bare     Conductor type (wire)   strand class 6     Norninal 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   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - able)   2 kV @ 60 s     Min. operating temperature min. (dynamic)   -40 °C     Max. operating temperature (statc)   -40 °C     Operating temperature (statc)   -25 °C     Operating temperature min. (dynamic)   80 °C / 90 °C @ 10000 h Operation     Operating temperature min. (dynamic)   80 °C / 90 °C @ 10000 h Operation     Flame resistance   UL 1581 § 1100 FI2  UL 1581 § 1090  IEC 60332-2-2     chemical resistance <td< td=""><td>Outer diameter insulation</td><td>1,25 mm</td></td<>	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,1 mmConductor 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 (wire - i jacket)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - i jacket)2 kV @ 60 sAC withstand voltage (wire - jacket)2 kV @ 60 sAG withstand voltage (wire - i jacket)2 kV @ 60 sAnoung temperature min. (dynamic)-25 °COperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationFlame resistanceGu of 2 / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 [ Good, application-related testingGasoline resistanceDIN EN 60811-404 [ Good, application-related testingBending radius (fixed)5 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Outer diameter tolerance core insulation	±5%
Amount strands (wire)42Diameter of single wires0,1 mmConductor 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 win. wire4.8 AElectrical resistance line constant wire57 Q/km @ 20 °CAC withstand voltage (wire -2 kV @ 60 sPower frequency withstand voltage (wire -2 kV @ 60 sJacket)2 kV @ 60 sAC withstand voltage (wire -2 kV @ 60 sJacket)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature fixedUL 1581 § 1100 FT2   UL 1581 § 1000   IEC 60332-2-2Chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, applica	Shore hardness wire insulation	70 ± 5 Shore D
Times table (m/y)Diameter of single wires0,1 mmConductor cossection (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 (wire - wire)2 kV @ 60 sAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)-25 °COperating temperature max. (dynamic)-25 °COperation esistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 × Outer diameterBending radius (fixed) </td <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     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   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature max. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     Flame resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Gasoline resistance   DIN EN 60811-404   Good, application-related testing     Gold resistance   DIN EN 60811-404   Good, application-related testing     Gold resistance   DIN EN 60811-404   Good, application-related testing <t< td=""><td>Amount strands (wire)</td><td>42</td></t<>	Amount strands (wire)	42
Material 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 min. wire4,8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Diameter of single wires	0,1 mm
Conductor type (wire)strand class 6Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (mixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	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 wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationOperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)   to DIN VDE 0298-4     Current load capacity min. wire   4,8 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - acket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Oil resistance   DIN EN 60811-404   Good, application-related testing     Oil resistance   Di X Outer diameter     Bending radius (fixed)   5 x Outer diameter     Travel speed (C-track)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/m	Conductor type (wire)	strand class 6
Current load capacity min. wire   4.8 A     Electrical resistance line constant wire   57 Ω/km @ 20 °C     AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2     chemical resistance   Good, application-related testing     Gasoline resistance   Good, application-related testing     Gasoline resistance   DIN EN 60811-404   Good, application-related testing     Bending radius (fixed)   5 x Outer diameter     Travel speed (C-track)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.	Nominal voltage AC max.	300 V
Electrical resistance line constant wire57 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)   2 kV @ 60 s     Power frequency withstand voltage (wire - jacket)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     AC withstand voltage (wire - shield)   2 kV @ 60 s     Min. operating temperature (static)   -40 °C     Max. operating temperature (fixed)   80 °C / 90 °C @ 10000 h Operation     Operating temperature max. (dynamic)   -25 °C     Operating temperature max. (dynamic)   80 °C / 90 °C @ 10000 h Operation     Flame resistance   UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2     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)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/m	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Electrical resistance line constant wire	57 Ω/km @ 20 °C
jacket)Z KV @ 60 sAC withstand voltage (wire - shield)2 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2Chemical 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - wire)	2 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 OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m		2 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 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistanceUL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2chemical 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)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Operating temperature min. (dynamic)	-25 °C
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)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/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)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/m	Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
Oil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic)   10 x Outer diameter     Travel speed (C-track)   5 Mio. @ 25 °C     No. of torsion cycles   2 Mio.     Torsion stress   ± 30 °/m	Oil resistance	DIN EN 60811-404   Good, application-related testing
Travel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.Torsion stress± 30 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 2 Mio.   Torsion stress ± 30 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 30 °/m	Travel speed (C-track)	5 Mio. @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 30 °/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: 2024-05-05

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