

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

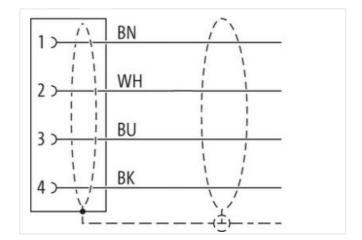
PUR 4x0.34 shielded gy UL/CSA+drag ch. 3m

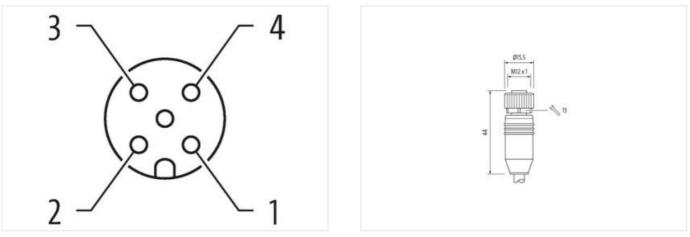
Female straight M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## 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: 2024-05-19

3 m

0,6 Nm

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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	A
Vaterial	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	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	4048879466905
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)	I
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	
	inserted, screwed, Shaking protection
Mounting method	
Environmental characteristics   Climati	
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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Labb Steminication       2+1         Label Type       3         Label Color       grwy         Type of Centriferia       cURus         Arrount stranding       1         Stranding       4 wires twisted         Cable shielding (overrage)       80 %         Banding       Peece Shill         Wire arrangement       brown, black, blue, white         Cable shielding (overrage)       80 %         Banding       Peece Shill         Wire arrangement       brown, black, blue, white         Cable swight       50.6 grm         Material jacket       91 % Shore A         Freedom from ingredients (gacket)       5.3 nm         Colerance outer diverseries (gacket)       5.3 nm         Colerance outer diverseries (gacket)       1.5 % Shore D         Cater diameter induction       1.25 mm         Cater diameter induction       1.25 mm         Cander diameter induction       1.25 mm         Carder diamet		
Jackaf Color       gray         Type of Cartificate       cURus         Amount stranding       1         Stranding       4 wires twisted         Cable straiding (type)       cooper braid, Enned         Material jackot       PUR         Shore Anordees jacket       90 ± 5 Shore A         Freedom from ingodents (jacket)       18a drive, codmund-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       5.3 mm         Tolerance outer diameter (inscler)       5.5 Shore A         Freedom from ingodents (jacket)       1.5 Sm         Angurt wires       4         Cuter diameter insulation       1.2 Sm         Outer diameter insulation       1.2 Sm         Cuter diameter insulation       1.2 Sm         Canduct vires       Scharbez, Cadmund-free, CFC-free, halogen-free, silicone-free         Anount strands (vire)       4         Cuter diameter insulation       1.2 Sm         Cuter diameter insulation       1.5 Sm         Cuter diameter insulation       1.5	Cable identification	241
Type of Certificate       cUPus         Amount stranding       1         Stranding       4 wise twisted         Cable silviding (coverage)       80 %         Banding       Fleece, Foil         wire arrangement       Down, black, blue, while         Cable silviding (coverage)       80 %         Banding       Fleece, Foil         wire arrangement       Down, black, blue, while         Cable weigh       50 & g/m         Material jackoti       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jackoti)       lead free, cadmium free, CFC free, halogen free, allcone free         Outer diameter (stackit)       5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       1.25 mm         Outer diameter insulation       1.5 %         Thore discuss wire insulation       1.5 Shore D         Ingredient treanes wire insulation       1.25 Shore D         Ingredient treanes wire insulation       1.25 Shore D         Ingredient treanes wire insulation       1.01 Shore D         Ingredient treanes wire insulation       1.01 Shore D		3
Amount stranding       1         Stranding       4 wires twisted         Cable shiekling (type)       copper braid, finned         Cable shiekling (towerage)       80 %         Banding       Floece, Foil         wire arrangement       brown, black, blue, while         Cable shiekling (towerage)       80 %         Balardia Jack       PUR         Stron hardness jacket       90 15 Stron A         Freedom from ingredients (jacket)       53 xm         Tolerance outer diameter (health)       5 5 %         Material jacket       5 %         Outer diameter (installion       1.25 mm         Outer diameter installion       1.25 %         Shore hardness wire installion       1.26 sm         Outer diameter installion       1.25 mm         Outer diameter installion       1.25 % </td <td></td> <td></td>		
Stranding     4 wres twisted       Cable shielding (type)     coppor brail, tinned       Cable shielding (cverage)     80 %       Banding     Fleece, Foll       write arrangement     Down, black, blue, white       Cable weigh     50.8 g/m       Material jacket     PUR       Shore hardness jacket     90.5 S hore A       Freadom from ingredents (jacket)     lead-tree, cadmium-free, CFC-tree, halogen-free, silcone-free       Outer-diameter (jacket)     5.5 %       Material (jacket)     9.5 S hore A       Tolerance outer diameter (sheath)     ± 5 %       Material wre insulation     PP       Amount wres     4       Outer diameter insulation     1.25 rm       Outer diameter insulation     1.25 %       Material wre insulation     1.25 fm       Store hardness wre insulation     1.64 %       Nounst stands (wre)     4.2       Damoter or single wres     0,1 mm       Conductor crossection (wire)     0,24 rm²       Material wre insulation     1.64 %       Material wres     Standed copper wire, sare       Conductor crossection (wire)     0,24 rm²       Material conductor wire<		
Cable shelding (type)       copper braid, tinned         Cable shelding (coverage)       80 %         Banding       Fleese, Foll         wire arrangement       brown, black, blue, while         Cable weigth       50.6 g/m         Material jackel       PUR         Shore hardness jacket       90 = 5 Shore A         Freedom from ingredients (jackel)       beat-free, cadmum-rice, CFC-free, halogen-free, silicone-free         Outer-diameter (jackel)       5.3 mm         Tolerance outer diameter (sheath)       1 5 %         Amount wiros       4         Outer diameter (lackel)       125 mm         Outer diameter location       128 mm         Outer diameter location       128 mm         Outer diameter location       128 mm         Outer diameter location		
Cable ahielding (coverage)       80 %         Banding       Fleece, Foil         wrie arrangement       brown, black, blie, while         Cable weight       50.6 g/m         Material jacket       PUR         Shore hardness jacket       90.5 Shore A         Freedom from ingredients (jacket)       lea3.fine, caffurum-free, CFC-free, halogen-free, silicone-free         Uder-dameter (jacket)       5.3 m         Tolerance outer diameter (sheath)       1.5 %         Material wire insulation       1.25 mm         Outer diameter insulation       1.25 mm         Outer diameter insulation       1.25 mm         Outer diameter viernsulation       1.25 mm         Outer diameter insulation       1.25 mm         Outer diameter viernsulation       1.25 mm         Outer diameter viernsulation       1.25 mm         Caduet or crossection (wire)       0.34 mm²         Manumatistrands (wire)       42         Diameter of single wires       0.1 mm         Conductor wire       Stranded copper wire, bare         Conductor wire       Stranded copper wire, bare         Conductor vire (wire)       1.01 NV DE 0298-4         Current load capacity mix, wire       4.8		4 wires twisted
Banding       Fields, Foll         wire arrangement       brown, black, blue, white         Cable weigh       50.6 g/m         Material jacket       PUR         Shore hardness jackel       90.5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, hulogen-free, silicone-free         Outer diameter (jacket)       6.3 mm         Tolerance outer diameter (facket)       5.3 mm         Outer diameter insulation       FP         Amount wires       4         Outer diameter insulation       1.25 mm         Conductor view insulation       1.25 mm         Conductor or insulation       1.25 mm         Conductor view insulation       1.25 mm         Conductor view insulation       1.63 mm         Conductor view insulation       1.63 mm         Conductor view insulation       0.1 mm         Conductor vi		
wire arrangement       brown, black, blue, white         Cable weight       50.6 g/m         Shore hardness jacket       PUR         Shore hardness jacket       90.4 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer diameter (jacket)       5.3 nm         Tolerance outer (diameter (sheath)       ± 5 %         Material jacket       PP         Amount wires       4         Outer diameter insulation       1.25 mm         Outer diameter insulation       70.1 ± 5 Shore D         Ingredient freeness wire insulation       70.1 ± 5 Shore D         Ingredient freeness wire insulation       70.4 ± 5 %         Material preview       42         Diameter of single wires       0,1 mm         Conductor preview       0,1 mm         Conductor rupe (wire)       5.4 mm²         Material conductor wire       Stranded copper wire, bare         Conductor rupe (wire)       5.m @ 25 °C1 (horizontal         Norminal vortage K max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load	Cable shielding (coverage)	
Cable weigh       50.8 g/m         Material jacket       PUR         Shore hardmoss jacket       90.2 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 tolerance core insulation       ± 5 %.         Shore hardmoss wire insulation       7.9 ± 5 Shore D         Tingredient freeness wire insulation       7.0 ± 5 Shore D         Tingredient freeness wire insulation       1.25 mm         Conductor core section (wire)       42         Diameter of single wires       0.1 mm         Conductor vire       Stranded copper wire, bare         Conductor vire       5 stranded copper wire, bare         Conductor vire       5 Smanded copper wire, bare         Conductor vire       5 Smanded copper wire, bare         Conductor vire       5 m & 925 °C ( horizontal         Nominal voltage AC max.       300 V         Current load capacity fistandard)       to DN VD C298.4         Curent load capacity min. wire       4.8 A		
Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CPC-free, halogen-free         Outer diameter (jacket)       5.3 mm         Tolerance outer diameter (jacket)       5.3 mm         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       1.25 mm         Outer diameter lolerance core insulation       1.5 %         Shore hardness wire insulation       1.25 mm         Outer diameter lolerance core insulation       1.6 %         Shore hardness 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         Traversing diatance (C-track)       5 m @ 25 °C (horizontal         Nominal votage (wire - wire)       2 kV @ 60 s         Current load capacity timum-wire       4,8 A         Elerical resistance       Good (wire - wire)         AC withstand votagag (wire - shield)<		
Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free         Uoter-diameter (jacket)       5.3 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter tolerance core insulation       1.25 mm         Outer diameter tolerance core insulation       1.25 mm         Outer diameter tolerance core insulation       1.25 mm         Ingredient freeness wire insulation       1.85 %         Shore hardness wire insulation       1.85 %         Conductor crosssection (wire)       4.2         Diameter of single wires       0.1 mm         Conductor crosssection (wire)       0.34 mm <sup>2</sup> Conductor vice       Stranded copper wire, bare         Conductor vice       Strande closes 6         Traversing distance (1:tack)       5 m @ 25 °C Invizontal         Nominal voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - wire)       2 kV @ 60 s         Ac withstand voltage (wire - wire)       2 kV @ 60 s         Material preparature (istack)       40 °C         Max. operating temperature (ist	Cable weigth	
Freedom from ingredients (jacket)     Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     5.3 mm       Tolerance outer diameter (sheath)     1.5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.25 mm       Outer diameter insulation     70 ± 5 %       Shore hardness wire insulation     1.25 mm       Outer diameter (solekal)     4       Manuer 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       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Nominal vottage (wire - wire)     2 kV @ 60 s       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 0290 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - 2 kV @ 60 s        AC withstand voltage		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 insulation       1,25 %         Shore hardness wire insulation       1,24 %         Ingredient freeness wire insulation       1,24 %         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor provessection (wire)       0,34 mm²         Conductor prove (wire)       stranded copper wire, bare         Conductor (wire)       0,34 mm²         Current load capacity min. wire       4,8 A         Current load capacity min. wire       4,8 A         Current load capacity min. wire       4,8 Q         Electrical resistance line constant wire       57 CMm @ 20 °C         CA withstand voltage (wire - wire)       2 kV @ 60 s         Max. operating temperature (fixed) <td></td> <td>90 ± 5 Shore A</td>		90 ± 5 Shore A
Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter lolerance core insulation     ± 5 %       Shore hardness wire insulation     1,25 mm       Outer diameter tolerance core insulation     ± 5 %       Shore hardness wire insulation     tead-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 transection (wire)     strand class 6       Traversing distance (C-track)     5 m @ 28 °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 (wint-wire)     2 kV @ 60 s       AC withstand voltage (wire - wire)     2 kV @ 60 s       Max. operating temperature (indic)     -40 °C       Max. operating temperature (indic)     80 °C / 90 °C @ 10000 h Operation       Operating temperature mix. (dynamic)     -25 °C       Operating temperature mix. (dynamic) <t< td=""><td>Freedom from ingredients (jacket)</td><td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td></t<>	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 folerance core insulation       1.5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient treeness wire insulation       16 %         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 lype (wire)       strand class 6         Traversing distance (C+rack)       5 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 kV @ 60 s         Power frequency withstand voltage (wire - wire)       2 kV @ 60 s         Min: operating temperature (static)       4 4 °C         Max operating temperature (static)       4 4 °C         Max operating temperature (static)       4 4 °C         Mix operating temperature (static)       4 0 °C         Mix operating temperature (static)       4 0 °C         Mix operating temperature (static)       4 0 °C </td <td>Outer-diameter (jacket)</td> <td>5,3 mm</td>	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   1ed.+ree, 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 toye (wire)   stranded copper wire, bare     Content toad capacity (standard)   to DIN VDE 0286.4     Current load c	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation1,25 mmOuter diameter tolerance core insulation $\pm 5 \%$ Shore hardness wire insulation $70 \pm 5$ Shore DImgredient Treeness wire insulationlead-tree, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire) $42$ Diameter of single wires $0,1 mm$ Conductor oxssection (wire) $0.34 mm^2$ Material conductor wireStranded copper wire, bareConductor type (wire)stranded copper vire, bareCurrent load capacity (strandard)to DIN VDE 0286-4Current load capacity (strandard)to DIN VDE 0286-4Current load capacity (wire - wire)2 kV @ 60 sAc withstand voltage (wire - wire)2 kV @ 60 sMin. operating temperature (stacl)-40 °CMax. operating temperature (stacl)2 kV @ 60 sMin. operating temperature (stacl)60 °C /90 °C @ 10000 h OperationOperating temperature (stacl	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 cosssection (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       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       Power frequency withstand voltage (wire - shield)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       Ma. coperating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Mas. operating temperature (static)     -40 °C       Mas. operating temperature (static)     -40 °C	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 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 min. wire     4.8 A       Electrical resistance line constant wire     57 Ω km @ 20 °C       AC withstand voltage (wire - vire)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -25 °C       Operating temperature max. (dynamic)     -25 °C       Operating temperature max. (dynamic)     -25 °C       Operating temperature max. (dynamic)     80 °C / 90 °C @ 10000 h Operation       Flame resistance     Good. application-related testing       Goin tersistance     Good. application-related testing	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-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       Traversing distance (C-track)     5 m @ 25 °C   horizontal       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       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 - abiled)     2 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Gasoline resistance     UL 1581 § 1100 FT2   UL 1581 § 1000   IC 60332-2-2       Chemical resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing </td <td>Outer diameter tolerance core insulation</td> <td>± 5 %</td>	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire)     42       Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor type (wire)     strand class 6       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 win. 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 - 1 a kW @ 60 s     2 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Operating temperature (mixed)     80 °C / 90 °C @ 10000 h Operation       Operating temperature (static)     -40 °C       Hame resistance     UL 1581 § 1100 FT2   UL 1581 § 11090   IEC 60332-2-2       Chemical resistance     Good, application-related testing       Gasoline resistance     Good, application-related testing	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires0,1 mmConductor orosssection (wire)0,34 mm²Material 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 (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (static)-40 °COperating temperature max. (dynamic)28 °C / 90 °C @ 10000 h OperationOperating temperature (static)-40 °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 § 109   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (fixed)5 x Outer dia	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 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       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. 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     DIN EN 60811-404   Good, application-related testing       Gasoline resistance     DIN EN 60811-404   Good, application-related testing       Oil resistance     DIN EN 60811-404   Good, application-related testing	Amount strands (wire)	42
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 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 - iacket)     2 kV @ 60 s       AC withstand voltage (wire - shield)     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       Flame resistance     Good, application-related testing       Gasoline 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       Galoine resistance     DIN NE 0819 °C       DIN EN 60811-40	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 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 (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 × 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>
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 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       AC withstand voltage (wire - shield)     2 kV @ 60 s       Max. operating temperature (static)     -40 °C       Max. operating temperature (fixed)     80 °C / 90 °C @ 10000 h Operation       Operating temperature (mixed)     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       Travel speed (C-track)     5 Mio. @ 25 °C	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     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       AC withstand voltage (wire - shield)     2 kV @ 60 s       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -25 °C       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       Oli resistance     Good, application-related testing       Oli resistance     DIN EN 60811-404   Good, application-related testing       Bending radius (dynamic)     10 x Outer diameter       Travel speed (C-track)     5 Mio. @ 25 °C       No. of torsion cycles	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     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       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       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.	Traversing distance (C-track)	5 m @ 25 °C   horizontal
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       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 (static)     -40 °C       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     Good, application-related testing       Gasoline resistance     Good, application-related testing       Oil 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 <td>Nominal voltage AC max.</td> <td>300 V</td>	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 resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterFravel 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 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 (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 diameterBending radius (dynamic)10 x Outer diameterTravel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 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 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
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       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		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	; ,	-
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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		
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		· · · · · · · · · · · · · · · · · · ·
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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	
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 cycles2 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: 2024-05-19

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