

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

PUR 4x0.34 shielded gy UL/CSA+drag ch. 15m

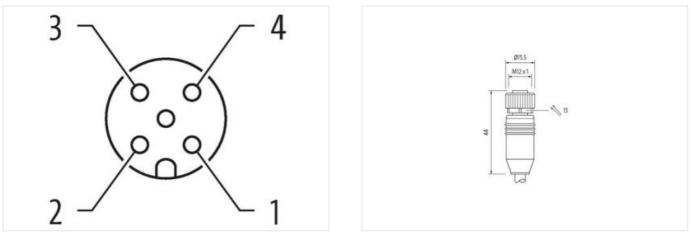
Female straight M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## 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: 2024-04-24

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15 m

0,6 Nm



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-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	4048879470827
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	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climati	ic
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
·	241
Cable identification	241 3
Cable Type	
Jacket Color	gray

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Cable shielding (coverage)     80 %       Banding     Fleece, Foil       wire arrangement     brown, black, blue, while       No. of bending cycles (C-track)     5 Mio, @ 25 °C       Cable weigh     60.8 g/m       Material [ack4     PUR       Shore hardness jack4t     90.4 5 Shore A       Freedom from ingredents (jacket)     63.4 s/m       Carle-clameter (jacket)     5.3 mm       Tolerance outer diameter (sheath)     5.5 %       Amount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.25 %       Shore hardness wire insulation     1.25 %       Diameter of single wires     0.1 mm       Conductor crosssaction (wire)     0.24 mm*       Marcal canck (wire)     52 % C I horizontal       Current load capacity (standard)     to DIN VDE 0298.4       Current load capacity (wire)     52 % C I horizontal       Current load capacity (wire wire)     2.4 W @ 60 s	Type of Certificate	cURus
Cable shielding (type)     copper braid, inned       Cable shielding (coverage)     80 %       Banding     Floeco, Fol       wire arragement     brown, black, blue, white       No. of bending cycles (C-track)     5 Mio. @ 25 °C       Cable weigh     50 & gith       Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     6.3 mm       Tolerance outer diameter (stealth)     5.5 %       Material jacket     90 ± 5 %       Material instaltion     9.2 Smm       Cuter diameter (stealth)     5.5 %       Material instaltion     1.25 mm       Cuter diameter insulation     7.2 S Shore D       Ingredient freenees wire insulation     7.2 S Shore D       Ingredient freenees wire insulation     1.25 mm       Conductor type (weit)     42       Diameter of Single wises     0.1 mm       Conductor type (weit)     strand clase 6       Traversing distance (C-track)     5 m@ 25 °C I norzontal       Curret dia capacity (mix wite)     42 A       Curret dia capacity (mix wite)     5 A M	Amount stranding	1
Cable shielding (coverage)     80 %       Banding     Fleece, Foil       wire arrangement     brown, black, blue, while       No. of bending cycles (C-track)     5 Mio, @ 25 °C       Cable weigh     60.8 g/m       Material [ack4     PUR       Shore hardness jack4t     90.4 5 Shore A       Freedom from ingredents (jacket)     63.4 s/m       Carle-clameter (jacket)     5.3 mm       Tolerance outer diameter (sheath)     5.5 %       Amount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.25 %       Shore hardness wire insulation     1.25 %       Diameter of single wires     0.1 mm       Conductor crosssaction (wire)     0.24 mm*       Marcal canck (wire)     52 % C I horizontal       Current load capacity (standard)     to DIN VDE 0298.4       Current load capacity (wire)     52 % C I horizontal       Current load capacity (wire wire)     2.4 W @ 60 s	Stranding	4 wires twisted
Banding     Fleece, Foll       wire arragement     brown, black, blue, while       No. of bending cycles (C-track)     5 Mio. @ 25 °C       Cable weight     50.6 p/m       Material jacket     PUR       Shore hardness jackt     90.5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free       Outer-diameter (jacket)     5,3 mm       Tolarance outer diameter (halt)     1.5 %       Material wire insulation     PP       Annount wires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.5 %       Shore hardness wire insulation     70 ± 5 Shore D       Imgredient freemess wire insulation     1.25 mm       Outer diameter tolerance core insulation     1.25 mm       Candicator wire insulation     1.25 mm       Conductor wire insulation     1.25 mm<	Cable shielding (type)	copper braid, tinned
wire arangement     brown, black, blue, white       No. of bending cycles (C-track)     5 Mio. @ 25 °C       Cable weigh     50.6 g /m       Material jacket     PUR       Shore hardness jackat     90.5 5 Shore A       Freedom from ingredents (jacket)     5.3 mm       Tolerance outer diameter (jacket)     5.3 mm       Tolerance outer diameter (jacket)     5.3 mm       Outer diameter (jacket)     5.3 mm       Outer diameter insulation     PP       Annount vires     4       Outer diameter insulation     1.25 mm       Outer diameter insulation     1.25 mm       Outer diameter insulation     70.5 5 Shore D       Ingredent freenses wire insulation     1.26 mm       Outer diameter of single wires     0,1 mm       Conductor rossescion (wire)     0.34 mm <sup>2</sup> Diameter of single wires     0,1 mm       Conductor russescion (wire)     0.34 mm <sup>2</sup> Turewrsing distance line constant wire     52 °C 1 Instanta       Conductor vires (C-track), 5 m @ 25 °C 1 Instanta     Conductor wire site instanta       Conductor vires (wire)     0,4 mm <sup>2</sup> Diameter of single wire	Cable shielding (coverage)	80 %
No. of bending cycles (C-track) 5 Mo. @ 25 °C   Cable weight 50,6 g/m   Material jacket PUR   Shore hardness jacket 90 ± 5 Shore A   Freedom from ingredients (jacket) Lead-tree. cadmium-free. CFC-free, halogen-free, silicone-free   Outer diameter (jacket) ± 5 %   Material jacket PP   Amount wires 4   Outer diameter (jacket) ± 5 %   Shore hardness wire insulation 1,25 mm   Outer diameter insulation 1,25 mm   Outer diameter tolerance core insulation 1,25 mm   Dameter of single wirds 0,1 nm   Conductor tyre (wire) 0,34 mm <sup>2</sup> Conductor tyre (wire) 5 m @ 25 °C   horizontal   Current load capacity (istandard) to IN VDE 0298-4   Current load capacity (min. wire) 42 N@ 460 s   Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s   Nominal voltage power (wire - wire) 5 7 0km @ 20 °C   Nominal voltage power (wire - wire) 2 kV @ 60 s   Min. operating temperature (max. (dynamic) -25 °C   Order tolego apower (wire - wire) <td>Banding</td> <td>Fleece, Foil</td>	Banding	Fleece, Foil
Cable weight     50.8 g/m       Material jacket     PUF       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 %       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter four-ance core insulation     ± 5 %       Shore hardness wire insulation     70 ± 5 Shore D       Ingredient free.ness wire insulation     125 mm       Outer diameter tolerance core insulation     124 %       Diameter of single wires     0.1 mm       Conductor crosssection (wire)     0.34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor vires     Stranded copper wire, bare       Conductor wire     Stranded copper wire, bare <td>wire arrangement</td> <td>brown, black, blue, white</td>	wire arrangement	brown, black, blue, white
Material jacket     PUR       Shore hardness jacket     90 ± 5 Shore A       Freedom from ingredients (jacket)     15 3 mm       Tolerance 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 insulation     1.25 mm       Outer diameter insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     1.25 mm       Outer diameter insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     1.24 mm       Annunt strandt Sirwie)     42       Diameter of single wires     0,1 mm       Conductor rossection (vire)     0.34 mm <sup>2</sup> Conductor rossection (vire)     Strand class 6       Traversing distance (C+tack)     5 m @ 25 °C (horizontal       Current load capacity (standard)     to DIV VDE 029 °C       Nominal voltage power (wire - shield)     2 kV @ 60 s       Materiad conductor vire sacket)     2 kV @ 60 s       Mina. operating temperature (stance)     40 °C       Quiver jacket)	No. of bending cycles (C-track)	5 Mio. @ 25 °C
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)     5.5 %       Material wire insulation     PP       Anount wires     4       Outer diameter lowance core insulation     1.25 mm       Outer diameter lowance core insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     104 ± 6 S %       Shore hardness wire insulation     70 ± 5 Shore D       Ingredient freeness wire insulation     124 ± 6 Res, 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     Strand class 6       Traversing distance (L-frack)     5 m @ 25 °C i horizontal       Current load capacity (standard)     to DIN VDE 0296.4       Current load capacity min. wire     4.8 A       Electrical resistance line constant wire     57 DKm @ 20 °C       Nominal voltage power (wire - shield)     2.4V @ 60 s       AC withstand voltage power (wire - shiel	Cable weigth	50,6 g/m
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeOuter-diameter (jacket) $5.3$ mmTolerance outer diameter (sheath) $\pm 5$ %Material wire insulationPPAnount wires4Outer diameter lolerance core insulation $1.25$ mmOuter diameter lolerance core insulation $25$ %Shore hardness wire insulation $70 \pm 5$ Shore DIngredient freeness wire insulation $1.25$ mmOuter diameter insulation $10 \pm 5$ %Shore hardness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire) $42$ Diameter d'ingle wires0.1 mmConductor vires0.14 mm²Conductor vire (wire)Stranded copper wire, bareConductor vire (wire)strand class 6Traversing distance (C-track)5 m @ $25$ °C   horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sNominal voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static) $40^{\circ}C$ Max. operating temperature (static) $40^{\circ}C$ Max. operating temperature (static) $40^{\circ}C$ Max. operating temperature (static) $40^{\circ}C$ Min. operating temperature (static) $40^{\circ}C$ Min. operating temperature (static) $40^{\circ}C$ Min. operating temperature (static)<	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     1,25 mm       Ingredient freeness wire insulation     1 = 5 Nore 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 mm <sup>2</sup> Conductor vires     Stranded copper wire, bare       Conductor type (wire)     strand class 6       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Current load capacity (standard)     to DIN VDE 0298-4	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 or lolerance core insulation   ± 5 %     Shore hardness wire insulation   70 ± 5 Shore D     Ingredient freeness wire insulation   164 cl-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 vire (C-track)   5 m @ 25 °C   horizontal     Current load capacity (standard)   10 DIN VDE 0298-4     Current load capacity (standard)   10 DIN VDE 0298-4     Current load capacity min. wire   4.8 A     Electrical resistance line constant wire   57 0/km @ 20 °C     Nominal voltage power AC max.   300 V     AC withstand voltage power (wire - wire)   2 kV @ 60 s     AC withstand voltage power (wire - wire)   2 kV @ 60 s     Material transmitter (static)   -40 °C     Max. operating temperature (static)   -40 °C     Max. operating temperature (static)   -25 °C	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 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 mm <sup>2</sup> Conductor vire     Strandel copper wire, bare       Conductor type (wire)     strands class 6       Traversing distander (C-track)     5 m @ 25 °C1 (hoizontal       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (wire-shield)     2 kV @ 60 s	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     16 ± 5 %       Diameter of single wires     0,1 mm       Conductor crossection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor crossection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor crossection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor crossection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor trossection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Conductor trossection (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bare       Corrent load capacity (wire)     strand class 6       Traversing distance (Ic-track)     5 m Ø Ø S       Current load capacity min, wire     4,8 A       Electrical resistance in constant	Tolerance outer diameter (sheath)	±5%
Automation1.25 mmOuter diameter insulation1.25 mmOuter diameter tolerance core insulation $\pm$ 5 %Shore hardness wire insulation70 $\pm$ 5 Shore DIngredient freeness wire insulationlead-tree, cadmium-free, CFC-free, halogen-free, silicone-freeAmount stands (wire)42Dameter of single wires0,1 mmConductor cossection (wire)0.34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C   horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sNominal voltage power (wire - shield)2 kV @ 60 sNominal voltage power (wire - shield)2 kV @ 60 sMax. operating temperature (static)40 °CMax. operating temperature (static)80 °C / 90 °C @ 10000 h Ope	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 rossesction (wire)     0,34 mm²       Material conductor wire     Stranded copper wire, bree       Conductor type (wire)     strand class 6       Traversing distance (C-track)     5 m @ 25 °C   horizontal       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (wire)     34 W @ 20 °C       Nominal voltage power AC max.     300 V       AC withstand voltage power AC max.     300 V       AC withstand voltage power (wire - shield)     2 kV @ 60 s       Power frequency withstand voltage power     2 kV @ 60 s       AC withstand voltage power (wire - wire)     2 kV @ 60 s       Max. operating temperature (fixed)     40 °C       Max. operating temperature (static)     -40 °C       Max.operating temperature min. (dynamic)     -25 °C       Operating temperat	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 sossection (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       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (standard)     to DIN VDE 0298-4       Current load capacity (wine - shield)     2 kV @ 60 s       Power frequency withstand voltage power AC max.     300 V       AC withstand voltage power (wire - shield)     2 kV @ 60 s       Min. operating temperature (statc)     40 °C       Max. operating temperature (statc)     40 °C       Max. operating temperature (statc)     40 °C       Min. operating temperature (statc)     40 °C       Min. operating temperature (statc)     40 °C       Max. operating temperature (statc)     80 °C / 90 °C @ 10000 h Operation       Operating temperature max. (dynamic)     25 °C       Ope	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, 1mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C   horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)2 kV @ 60 sNominal voltage power AC max.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power (wire - isket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (kited)80 °C / 90 °C @ 10000 h OperationOperating temperature (kited)80 °C / 90 °C @ 10000 h OperationCoperating temperature (kited)80 °C / 90 °C @ 10000 h OperationFlame resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceDivolut flameterBending radius (dynamic)5 x Outer diameterBending radius (dynamic)5 x Outer diameterBending radius (dynamic)5 x Outer diameterBending radius (dynamic)10 x Outer diameterBending radius (dynamic)10 x Outer diameterBendi	Outer diameter tolerance core insulation	±5%
Anount strands (wire)42Diameter of single wires0,1 mmConductor rosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C   horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Ω/km @ 20 °CNominal voltage power AC max.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - shield)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationCharlenceUL 1581 § 1100 FT2   UL 1581 § 1109   IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOll resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 × Cuter diameterBending radius (fixed)5 × Cut	Shore hardness wire insulation	70 ± 5 Shore D
Dameter of single wires0,1 mmConductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C   horizontalCurrent tod capacity (standard)to DIN VDE 0298-4Current tod capacity (standard)to DIN VDE 0298-4Current tod capacity (standard)2 kV @ 60 sNominal voltage power AC max.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower fraguency withstand voltage power2 kV @ 60 sWire - jacket)40 °CMax. operating temperature (static)-40 °CMax. operating temperature (static)-40 °COperating temperature (static)-25 °COperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (kixed)80 °C / 90 °C @ 10000 h OperationOur esistanceGood, ap	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)0,34 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C   horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Qkm @ 20 °CNominal voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power2 kV @ 60 sAC withstand voltage power (wire - shield)2 kV @ 60 sAC withstand voltage power (wire - shield)2 kV @ 60 sMax. operating temperature (statc)-40 °CMax. operating temperature (statc)-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 testingGil resistanceGood, application-related testingOil resistanceIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Amount strands (wire)	42
Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C   horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4.8 AElectrical resistance line constant wire57 Q/km @ 20 °CNominal voltage power AC max.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power2 kV @ 60 sPower frequency withstand voltage power (wire - shield)2 kV @ 60 sMin. 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 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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Diameter of single wires	0,1 mm
Conductor type (wire)strand class 6Traversing distance (C-track)5 m @ 25 °C   horizontalCurrent 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 0/km @ 20 °CNominal voltage power AC max.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature (fixed)80 °C / 90 °C @ 10000 h OperationParing temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100   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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Traversing distance (C-track)5 m @ 25 °C   horizontalCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 AElectrical resistance line constant wire57 Ω/km @ 20 °CNominal voltage power (Area.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)2 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 OperationPotenting temperature max. (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 testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire4,8 AElectrical resistance line constant wire57 Ω/km @ 20 °CNominal voltage power AC max.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power2 kV @ 60 sCwire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)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 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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Conductor type (wire)	strand class 6
Current load capacity min. wire4,8 AElectrical resistance line constant wire57 Ω/km @ 20 °CNominal voltage power AC max.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power2 kV @ 60 sCwithstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Electrical resistance line constant wire57 Ω/km @ 20 °CNominal voltage power AC max.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power (wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMax. 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 testingOil resistance10 x Outer diameterBending radius (fixed)5 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Current load capacity (standard)	to DIN VDE 0298-4
Nominal voltage power AC max.300 VAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power (wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)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 testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Current load capacity min. wire	4,8 A
AC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power (wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sAC withstand voltage power (wire - wire)2 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 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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Electrical resistance line constant wire	57 Ω/km @ 20 °C
Power frequency withstand voltage power (wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Nominal voltage power AC max.	300 V
(wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	AC withstand voltage power (wire - shield)	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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
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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     No. of torsion cycles   2 Mio.     Torsion speed   35 cycles/min	Min. operating temperature (static)	-40 °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     No. of torsion cycles   2 Mio.     Torsion speed   35 cycles/min	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 diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	Operating temperature min. (dynamic)	-25 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	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     No. of torsion cycles   2 Mio.     Torsion speed   35 cycles/min	Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
Oil resistance DIN EN 60811-404   Good, application-related testing   Bending radius (fixed) 5 x Outer diameter   Bending radius (dynamic) 10 x Outer diameter   No. of torsion cycles 2 Mio.   Torsion speed 35 cycles/min	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter   Bending radius (dynamic) 10 x Outer diameter   No. of torsion cycles 2 Mio.   Torsion speed 35 cycles/min	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter   No. of torsion cycles 2 Mio.   Torsion speed 35 cycles/min	Oil resistance	DIN EN 60811-404   Good, application-related testing
No. of torsion cycles 2 Mio.   Torsion speed 35 cycles/min	Bending radius (fixed)	5 x Outer diameter
Torsion speed 35 cycles/min	Bending radius (dynamic)	10 x Outer diameter
	No. of torsion cycles	2 Mio.
	Torsion speed	35 cycles/min
	Torsion stress	± 30 °/m

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: 2024-04-24

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