

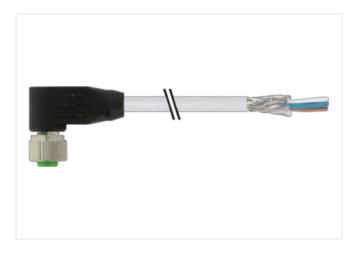
M12 female 90° A-cod. with cable shielded

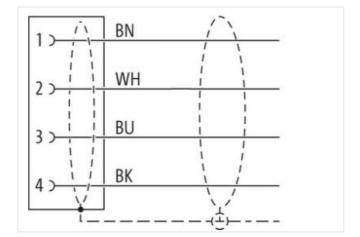
PUR 4x0.34 shielded gy UL/CSA+drag ch. 1.5m

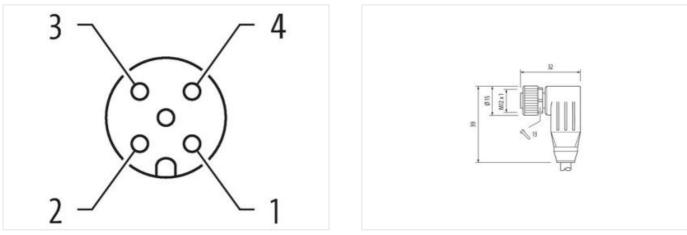
Female 90° M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

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: 2024-05-04

1,5 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	4048879526807
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	
·	Niekeled
Coating locking Coating of fitting	Nickeled 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)

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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 dinater (insula	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 Outer diameter wire solution Outer diameter insulation 4.2 Diameter of single wires 0,1 mm	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 1.25 Shore D Ingredient freeneess wire insula	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 ³ 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 ² Material and kines 0.1 mm Conductor prope (wire) stranded copper wire, bare Conductor prope (wire) stranded copper wire, bare Conductor prope (wire) strande doses 6	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 ² Diameter of aling wikes 0,1 mm Conductor type (wire) 5 stranded copper wire, bare Conductor type (wire) 5 zer Nominal voltage (wire - wire)	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 ^P 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 ² 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 ² 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.Travel speed (C-track)5 Mio. @ 25 °CNo. of torsion cycles2 Mio.	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 ²
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
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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	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: 2024-05-04

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