

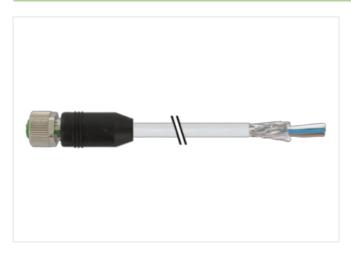
M12 female 0° A-cod. with cable shielded

PUR 4x0.34 shielded gy UL/CSA+drag ch. 30m

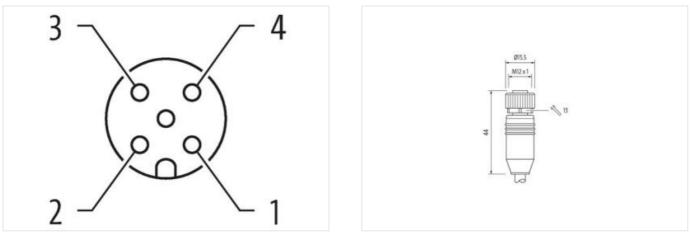
Female straight M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

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: 2024-04-20

30 m

0,6 Nm

Murrelektronik B.V. | Takkebijsters 3 | 4817 BL Breda | Fon 085-22 20 282 | Fax 085-22 20 283 | shop@murrelektronik.nl | shop.murrelektronik.nl



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	4048879457149
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation Connection	
Mounting set	M12 x 1
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
Mechanical data Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data Mounting data	•
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
	041
Cable identification	241
Cable Type	3
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 7.2 S Shore D Ingredient freenees wire insulation 7.2 S Shore D Conductor type (wire) stand class 6 Conductor type (wire) Stand Capper wire, bare Conductor type (wire) stand class 6 Conductor type (wire) stand class 6 Contract to acapacity min. wire 4.8 A </td <td>Amount stranding</td> <td>1</td>	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 ² Diameter of single wires 0,1 mm Conductor russescion (wire) 0.34 mm ² 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 ² 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 ² 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 ² 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) ± 5 %Material wire insulationPPAnount wires4Outer diameter lolerance core insulation 1.25 mmOuter diameter lolerance core insulation 25 %Shore hardness wire insulation 70 ± 5 Shore DIngredient freeness wire insulation 1.25 mmOuter diameter insulation 10 ± 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 ² 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 ² 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 ²
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
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Max. operating temperature (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationFlame resistanceUL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of torsion cycles2 Mio.Torsion speed35 cycles/min	AC withstand voltage power (wire - wire)	2 kV @ 60 s
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
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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: 2024-04-20

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