

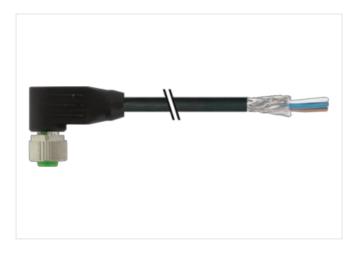
## M12 female 90° A-cod. with cable shielded

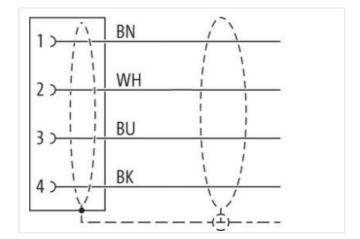
PUR 4x0.34 shielded bk UL/CSA+drag ch. 5m

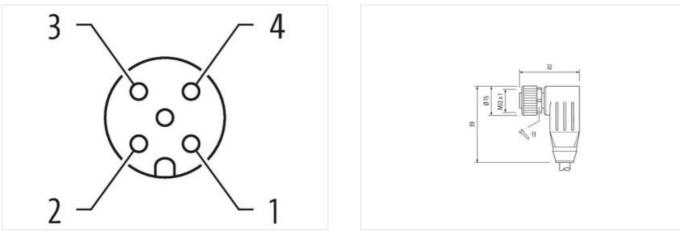
Female 90° M12, 4-pole shielded with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



Cable length

Side 1

Tightening torque

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-14

5 m

0,6 Nm

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Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	Α
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	4048879432085
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	
Device protection   Electrical	inserted screwed
Additional condition protection degree	inserted, screwed
Additional condition protection degree Pollution Degree	3
Additional condition protection degree	
Additional condition protection degree Pollution Degree Rated surge voltage	3
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data	3 1,5 kV I
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1)	3
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking	3 1,5 kV I Nickeled
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting	3 1,5 kV I Nickeled nickel plated
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) <b>Mechanical data   Material data</b> Coating locking Coating of fitting Locking material	3 1,5 kV I Nickeled nickel plated Zinc die-casting
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection	3 1,5 kV I Nickeled nickel plated Zinc die-casting
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data Mounting method Environmental characteristics   Climatic	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data Mounting method	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting inserted, screwed, Shaking protection
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data Mounting method Environmental characteristics   Climatic Operating temperature min.	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data Mounting method Environmental characteristics   Climatic Operating temperature min. Operating temperature max.	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C 85 °C
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data Mounting method Environmental characteristics   Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C 85 °C depending on cable quality
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data Mounting method Environmental characteristics   Climatic Operating temperature max. Additional condition temperature range	3 1,5 kV 1 Nickeled nickel plated Zinc die-casting Zinc die-casting -25 °C 85 °C
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data Mounting method Environmental characteristics   Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius	3         1,5 kV         I         Nickeled         nickel plated         Zinc die-casting         Zinc die-casting         inserted, screwed, Shaking protection         -25 °C         85 °C         depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data Mounting method Environmental characteristics   Climatic Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius Conformity	3         1,5 kV         1         Nickeled         nickel plated         Zinc die-casting         Zinc die-casting         inserted, screwed, Shaking protection         -25 °C         85 °C         depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data   Material data Coating locking Coating of fitting Locking material Material screw connection Mechanical data   Mounting data Mounting method Environmental characteristics   Climatic Operating temperature min. Operating temperature max. Additional condition temperature range Important installation notes Note on strain relief Note on bending radius	3         1,5 kV         I         Nickeled         nickel plated         Zinc die-casting         Zinc die-casting         inserted, screwed, Shaking protection         -25 °C         85 °C         depending on cable quality         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be

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Cable identification

Cable Type         3           Jacket Color         black           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wice locited           Cable shielding (type)         copper brail, linned           Cable shielding (coverage)         80 %           Banding         Flowes locited           Taveraing distance (C-track)         5 m @ 25 °C [horzontal           Cable weigh         5 m @ 25 °C [horzontal           Cable weigh         50.6 g/m           Material jacket         PUR           Stron hardness jackal         92.5 Shrore A           Freedom from ingredenti (jacket)         16.8 s/m           Outer diameter (cheath)         2 5 %           Material wein insulation         PP           Amount wires         4           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.25 mm           Cable diverse were insulation         1.25 mm           Canderdiser insulation         70.2 5 Shrore D           Ingredient freeness wire insulation         1.25 mm           Canderdiser were insulation         1.25 mm           Canderdiser were insulation         1.25 mm           Conductor	Cable Identification	641
Type of Conflicate         cUPUs           Amount stranding         1           Stranding         4 wires twisted           Cable shielding (type)         coppor braid, tinned           Cable shielding (coverage)         89 %           Banding         Filesce, Foll           Wire amagement         brown, black, blue, white           Traversing distance (Cr task)         5 m @ 25 % (Instance)           Cable shielding (coverage)         50 % gm           Mattridi jocket         9 UP           Shore hardness (acket)         9 0 ± 5 Shore A           Freedom from Ingradents (acket)         1 as 4 ****           Outer diameter (acket)         4 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter (insulation         1.25 mm           Outer diameter insulation         70 ± 5 %           Shore hardness wire insulation         70 ± 5 %           Unuer diameter insulation         1.25 mm           Outer diameter insulation         1.25 mm </td <td>Cable Type</td> <td>3</td>	Cable Type	3
Amount stranding       1         Stranding       4 wires twisted         Cable shielding (type)       Copper braid, timed         Cable shielding (type)       Stranding         Wrie arrangement       brown, black, blue, while         Traversing distance (Crack)       5 m @ 25 °C   horizontal         Cable weigh       50.6 g/m         Material jacket       PUR         Shore hardness jackat       90.5 Shore A         Freedom from ingrotionts (jackw)       load for example         Outer-diameter (jacket)       5.3 mm         Tolerance ouler diameter (jacket)       5.3 mm         Tolerance ouler diameter (jacket)       5.3 mm         Outer diameter insulation       PP         Amount wires       4         Outer diameter insulation       1.25 mm         Outer diameter insulation	Jacket Color	black
Stranding       4 wires twisted         Cable shielding (type)       copper brad, finned         Cable shielding (coverage)       80 %         Barding       Fleece, Foil         wire arrangement       brown, black, blue, white         Tarkersting distance (C-track)       5m @ 25 °C   horizontal         Cable weight       50.6 g/m         Material jackal       PUR         Material jackal       90 ± 5 Shore A         Freedom from ingredients (jacket)       16a/Fee, cadmum-free, CFC-tree, halogen-free, silicone-free         Outer-diameter (jacket)       5.3 mm         Tolerance outer diameter (sheath)       ± 5 %         Material jackal       90 ± 5 Shore A         Foredom from ingredients (jacket)       5.3 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       1.25 mm         Outer diameter insulation       1.25 mm         Outer diameter insulation       1.25 Shore D         Ingredient treeness wire insulation       1.25 N	Type of Certificate	cURus
Cable shelding (rype)         copper braid, tinned           Cable shelding (coverage)         B0 %           Banding         Fleece, Foil           wire arrangement         brown, black, blue, white           Travarsing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigh         50 g m           Matorial jackat         PUR           Shore hardness jack1         90 f 5 Shore A           Freedom from ingrodients (jackat)         lead free, cadmium free, CFC free, halogen free, allicone free           Outer diameter (jacket)         5.3 mm           Tolerance outer diamoter (jackat)         1.5 %           Matorial wre insulation         PP           Amount wires         4           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.25 mm           Conductor oroses insulation         1.25 mm           Conductor oroses insulation         1.25 mm           Conductor orosesection (wire)         0.34 mm <sup>2</sup> Conductor orosesection (wire)         0.34 mm <sup>2</sup> Conductor orosesection (wire)         0.34 mm <sup>2</sup> Conductor ory (wive)         strand copper vire, bare           Conductor ory (wive) <t< td=""><td>Amount stranding</td><td>1</td></t<>	Amount stranding	1
Cable shielding (coverage)         80 %           Banding         Fleeco, Foil           Wrie arrangement         brown, black, blue, white           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigh         50,8 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium, free, CFC free, halogen free, silicone free           Outer diameter (scleeth)         ± 5 %           Material jacket         PUR           Cubre diameter (scleeth)         ± 5 %           Material wrie insulation         PP           Amount wries         4           Outer diameter (scleeth)         ± 5 %           Shore hardness wrie insulation         1.25 mm           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.25 mm           Ingredient treeness wire insulation         70 ± 5 Shore D           Ingredient treeness wire insulation         10 ± 5 %           Diameter of single wires         0.1 mm           Conductor type (wire)         strand class 6           Nominal voltage A C max.         300 V      <	Stranding	4 wires twisted
Banding         Fleece, Foll           wire arrangement         brown, black, blue, while           Traversing distance (C-track)         5 m & 25 °C   horizontal           Cable weigth         50,6 g/m           Material jacket         PUF           Shore hardmess jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (gacket)         5.3 mm           Oberace outer diameter (sheath)         4.5 %.           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1.25 mm           Outer diameter insulation         7.2 5 Nore D           Tigradient freeness wire insulation         7.2 5 Nore D           Tigradient freeness wire insulation         7.2 5 Nore D           Tigradient freeness wire insulation         7.2 4 S Mm <sup>2</sup> Diameter of single wires         0.1 mm           Conductor wires         Stranded copper wire, bare           Conductor wire         Stranded copper wire, bare <t< td=""><td>Cable shielding (type)</td><td>copper braid, tinned</td></t<>	Cable shielding (type)	copper braid, tinned
wire arrangement         brown, black, blue, white           Traversing distance (C-track)         5 m @ 25 °C (I horizontal           Cable weigh         50,6 g/m           Material jacket         PUR           Shore hardness jackel         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free           Outer-diameter (jacket)         5.3 mm           Tolerance outer diameter (sleeth)         ± 5 %           Amount wriss         4           Outer diameter isulation         PP           Amount wriss         4           Outer diameter tolerance core insulation         1.25 mm           Outer diameter of single wires         0.1 mm           Conductor crossection (wire)         0.34 mm <sup>2</sup> Material conductor vire (sale)         0.34 mm <sup>2</sup> Material conductor vire (sale)         5.70 Mm @ 20 °C           Current load capacity (stand-dial)         to DIN VDE 0298-4           Curent load capacity (stand-dial)         to DIN	Cable shielding (coverage)	80 %
Traversing distance (C-track)         5 m @ 25 °C   horizontal           Gable weigh         50.6 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (gacket)         5.3 mm           Tolerance outer diameter (sheath)         ± 5 %.           Material wire insulation         PP           Amount wires         4           Outer diameter folloance core insulation         1.25 mm           Outer diameter folloance core insulation         1.25 mm           Outer diameter folloance core insulation         1.25 shore D           Ingredient freeness wire insulation         1.25 mm           Outer diameter Geore core insulation         1.25 shore D           Ingredient freeness wire insulation         1.25 shore D           Ingredient freeness wire insulation         1.25 shore D           Ingredient freeness wire insulation         0.24 mm²	Banding	Fleece, Foil
Cable weight         50.6 g/m           Material jacket         PUR           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 (jacket)         5.5 mm           Tolerance outer diameter (jacket)         5.5 mm           Matrial wire insulation         PP           Amount wires         4           Outer diameter insulation         1.25 mm           Outer diameter insulation         1.26 mm           Outer diameter insulation         1.26 mm           Outer diameter of single wires         0.1 mm           Conductor view         Stranded copper wire, bare           Conductor view (wire)         0.34 mm²           Material visitand voltage AC max.         300 V           Current load capacity (standerd)         to DIN VDE 0280-4           Current load capacity (standerd)         to DIN VDE 0280-4           Current load capacity (mixere	wire arrangement	brown, black, blue, white
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom Tom ingredients (jacket)         19.4 ± Shore A           Freedom Tom ingredients (jacket)         5,3 mm           Tolerance outer diameter (jacket)         5,3 mm           Tolerance outer diameter (jacket)         5,5 mm           Material wire insulation         PP           Amount wires         4           Outer diameter rolerance core insulation         1.25 mm           Outer diameter tolerance core insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount wires         0.1 mm           Conductor crosssection (wire)         0.34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor (wire)         Strande dosper wire, bare           Conductor (wire)         Stranded copper wire, comand           Row instand volt	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 (shealth)         ± 5 %.           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         164 d-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor consesection (wire)         0.34 mm <sup>9</sup> Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity min. wire         4.8 A           Electrical resistance line constant wire         57 Ωkm @ 20 °C           AC withstand voltage (wire - ishiel)         2 kV @ 60 s           AC withstand voltage (wire - ishiel)         2 kV @ 60 s           Min. operating temperature (istaic)         -40 °C	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 (sheath)       ± 5 %         Material wis insulation       PP         Amount wires       4         Outer diameter insulation       1.25 mm         Outer diameter insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       read-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 vie insulation       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Curren	Material jacket	PUR
Outer-diameter (jacket)         5,3 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Anount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         lead-free, cadmium-free, OFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor rosseschion (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor toge (wire)         strand class 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 (wire - sheld)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Ac withstand voltage (wire - wire)         2 kV @ 60 s           Mat. operating temperature (istatic)         -40 °C           Max. operating temp	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 wire       Stranded copper wire, bare         Conductor wire       Stranded copper wire, bare         Conductor wire       Stranded copper wire, bare         Conductor wire (wire)       0.34 mm <sup>2</sup> Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity train, wire       4,8 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Max. operating temperature (static)       -40 °C         Max. operating temperature (static)       -26 °C         Operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation	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         1,25 km P           Shore hardness wire insulation         1e3 5 %           Shore hardness wire insulation         lead-tree, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor rossesection (wire)         0,34 mm <sup>2</sup> Material conductor wire         Stranded copper wire, bare           Conductor vice         Stranded cosper wire, bare           Conductor wire         Stranded copper wire, bare           Courrent load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - 2 kV @ 60 s         2 kV @ 60 s           Min. operating temperature (stacic)         40 °C           Min. operating temperature max. (dynamic)         -25 °C	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       10 ± 5 Shore D         Ingredient freeness wire insulation       10 ± 5 Shore D         Mount 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         Nominal voltage AG max.       300 V         Current load capacity (islandard)       to DIN VDE 0298-4         Current load capacity (islandard)       to DIN VDE 0	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 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 win, wire         4.8 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         2 kV @ 60 s           Min: operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature	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 crossesection (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 - shield)       2 kV @ 60 s         Min. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature min. (dynamic)       80 °C / 90 °C @ 10000 h Operation         <	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 crosssection (wire)       0,34 mm <sup>2</sup> Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity wine       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 - shield)       2 kV @ 60 s         Min. operating temperature (static)       40 °C         Max. operating temperature (static)       40 °C         Max. operating temperature (static)       80 °C / 90 °C @ 10000 h Operation         Operating temperature max. (dynamic)       25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       IEC 60332-2 2   UL 1581 § 1990   UL 1581 § 1100 FT2         chemical resistance       Good, application	Outer diameter insulation	1,25 mm
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> 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 (standard)       to DIN VDE 0298-4         Current load capacity (win- wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - is frage with the example of t	Outer diameter tolerance core insulation	±5%
Amount strands (wire)       42         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       2 kV @ 60 s         AC withstand voltage (wire - wire)       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         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)	Shore hardness wire insulation	70 ± 5 Shore D
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 (standard)       2 kV @ 60 s         AC withstand voltage (wire - wire)       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         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)	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         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         UV resistance       DIN EN ISO 4882-2 A         Flame resistance       IEC 60332-2 2 U LI 1581 § 1100   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       DN EN 6		
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         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         UV resistance       DIN EN ISC 4882-2 A         Flame resistance       IEC 60332-2 2 U LI 1581 § 1100   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       DIN EN	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 sAC withstand voltage (wire - shield)2 kV @ 60 sMax. operating temperature (static)-40 °CMax. operating temperature (itsed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical 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 diameter	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       4.8 A         Electrical resistance line constant wire       57 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         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         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   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 <td>Material conductor wire</td> <td>Stranded copper wire, bare</td>	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 °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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameter	Conductor type (wire)	strand class 6
Current 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 (fixed)80 °C / 90 °C @ 10000 h OperationOperating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameter	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 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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (dixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameter	Current load capacity (standard)	to DIN VDE 0298-4
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 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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (dixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameter	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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameter	Electrical resistance line constant wire	57 Ω/km @ 20 °C
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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical 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 diameter	AC withstand voltage (wire - wire)	2 kV @ 60 s
Jacket)AC 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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404   Good, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameter	Power frequency withstand voltage (wire -	2 4/ @ 60 c
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         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       DIN EN 60811-404   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		
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 OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceOod, application-related testingOil resistanceDIN EN 60811-404   Good, application-related testingOil resistance10 x Outer diameterBending radius (fixed)5 x Outer diameter		
Operating temperature min. (dynamic)-25 °COperating temperature max. (dynamic)80 °C / 90 °C @ 10000 h OperationUV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical 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 diameter		
Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         UV resistance       DIN EN ISO 4892-2 A         Flame resistance       IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   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		
UV resistanceDIN EN ISO 4892-2 AFlame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical 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 diameter		
Flame resistanceIEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2chemical 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 diameter		
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		
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	Flame resistance	
Oil resistance     DIN EN 60811-404   Good, application-related testing       Bending radius (fixed)     5 x Outer diameter       Bending radius (dynamic)     10 x Outer diameter		
Bending radius (fixed)     5 x Outer diameter       Bending radius (dynamic)     10 x Outer diameter		
Bending radius (dynamic)     10 x Outer diameter	Oil resistance	DIN EN 60811-404   Good, application-related testing
Traval speed (C track) 5 Mig @ 25 °C		
	Travel speed (C-track)	5 Mio. @ 25 °C
No. of torsion cycles 2 Mio.		
Torsion stress ± 30 °/m		+ 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: 2024-05-14

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