

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

PUR 5x0.34 shielded gy UL/CSA+drag ch. 2m

Female 90° M12, 5-pole shielded with cable sleeves

Plastic housings with good resistance against chemicals and oils.

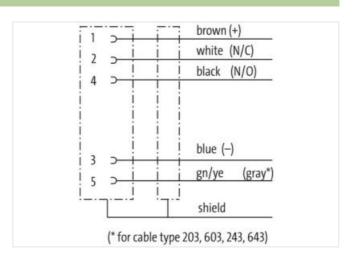
The resistance to aggressive media should be individually tested for your application. Further details on request.

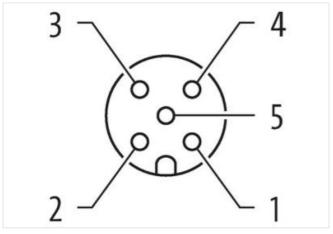
Further cable lengths on request.

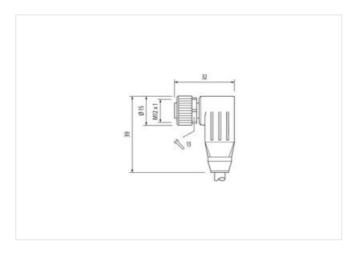
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

2 m

Side 1

Tightening torque

0,6 Nm



stay connected

Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Coating contact	gold plated
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	4048879623261
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
Diagnostics	
Status indication LED	no
Installation   Connection	
Stripping length (jacket)	20 mm
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	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Material gasket	FKM
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
	<u> </u>
Mechanical data   Mounting data	



stay connected

Environmental characteristics   Climate Operating temperature max. 25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality Important instaliation notes  Most on strain relate Note on strain relate Note on the management of the strain of the strai	Mounting method	inserted, screwed, Shaking protection
Operating temperature min. 85 °C Operating temperature max. 85 °C Operating temperature max. 85 °C Operating temperature max. 85 °C  Important institution notes  Note on startin reliaf Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tees. Note on bending radius  Altentions: Observe the permissible bending radii when laying cables, as the IP protection class can be ordangered by excessive bending factors.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation (Cable Cable deshifted and cable of gray  Type of Certificate OURS Altention (Cable (Cable Cable) Cable deshifted (Cable Cable) Cable deshifted (Cable) Cab		
Operating temperature max. 85 °C Adolitional 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 tites. Note on banding radius Affention: Observe the permissible bending radiu when laying cables, as the IP protection dass can be endangered by excessive bending radiu when laying cables, as the IP protection dass can be endangered by excessive bending radius when laying cables, as the IP protection dass can be endangered by excessive bending radius when laying cables, as the IP protection dass can be endangered by excessive bending radius when laying cables, as the IP protection dass can be endangered by excessive bending radius when laying cables, as the IP protection dass can be endangered by excessive bending radius when laying cables, as the IP protection dass can be endangered by excessive bending radius when laying cables, as the IP protection dass can be endangered by excessive bending radius when laying cables, as the IP protection dass can be endangered by excessive bending radius when laying cables, as the IP protection dass can be captured by excessive bending radius when laying cables, as the IP protection dass can be captured by excessive bending radius when laying cables, as the IP protection dass can be captured by excessive bending radius when laying cables, as the IP protection dass can be captured by excessive bending radius when laying cables, as the IP protection dass can be captured by excessive production of the Cable shelding (type)  2 black and the Cable and Cables	•	
Additional condition temporature range important installation notes	<u> </u>	
Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           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         Froduct standard         DIN EN 61076-2-101 (M12)           Product standard         DIN EN 61076-2-101 (M12)           Cable Installation   Cable         243           Cable Installation   Cable (Cable Type 3)         3           Jacket Color         gray           Upper of Cartificate         CUPRus           Amount stranding         1           Stranding         5 were around Core filler twisted           Cable shelding (type)         copper braid, finned           Cable shelding (type)         copper braid, finned           Cable shelding (type)         copper braid, finned           Filler         yes           Wire arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C) (priziontal           Cable weigh         57.2 pm           Material jacker         PUR           Material packer         90 ± 5 Shore A           Couler diameter (scheath)         5,8 m           Outer diameter (annual to		
Note on strain relief 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.  Product standard  DIN EN 61076 2-101 (M12)  Intestilation (Cable  Cable identification 243  Cable itype 3  Cable identification (Cable)  Cable identification (Cable)  Cable identification (Cable)  Type of Certificate (Cable)  Type of Certificate (Cable)  Type of Certificate (Cable)  Swinding (Swinding (Cable)  Cable shinking (type) (Cable) (Cable)  Cable shinking (type) (Cable) (Cable)  Cable shinking (type) (Cable) (Ca		depending on cable quality
Attention: Chaserse the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive banding forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable    Cable identification   243  Cable identification   243  Cable identification   249  Cable streaming   1  Silves around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming   5 wires around Core filter twisted   249  Cable streaming distance (C-track)   5 m @ 25 °C   1 horizontal   25 %  Material or on ingredients (jacket)   5 m @ 25 °C   1 horizontal   25 %  Material wire invalidation   70 × 5 Shore A   25 °C   25 °C	Important installation notes	
endangered by excessive bending forces.	Note on strain relief	
Product standard	Note on bending radius	
Cable identification         243           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler fivisted           Cable shielding (type)         copper braid, finned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weighth         57.2 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         90 ± 5 Shore A           Tread on from ingredients (jacket)         5 m @           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         2 5 %           Outer diameter (jacket)         5 m @           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm           Outer diameter (sheath)         ± 5 %           Material wire insulation         1,25 mm      <	Conformity	
Cable Identification         243           Cable Type         3           Laked COor         gray           Type of Conflicate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, finned           Sale shielding (coverage)         80 %           Bandring         Fleece, Foil           Filler         yes           Wird arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         57.2 g/m           Material glacket         PUR           Foredom from ingredients (jacket)         90 ± 5 Shore A           Freedom from ingredients (jacket)         1.5 mm           Duter diameter (sucket)         5.5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Duter diameter tolerance core insulation         1.25 mm           Duter diameter tolerance core insulation         1 ± 5 %           Amount strandies wire insulation         70 ± 5 Shore 0           Impredient freeness wire insulation         7	Product standard	DIN EN 61076-2-101 (M12)
Cable Type         3           Jackel Color         gray           yrey         Gerificate           Curry por Of Certificate         URUs           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copport braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foll           Filler         yes           wire arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         57 2 m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freadom from ingredients (jacket)         90 ± 5 Shore A           Coller diameter (jacket)         5,6 mm           Tolerance outer diameter (seletath)         2.5 %           Amount wires         5           Outer diameter insulation         PP           Amount wires         5           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D	Installation   Cable	
Cable Type         3           Jackel Color         gray           yrep of Certificate         CURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, finned           Cable shielding (coverage)         80 %           Banding         Floece, Foll           Filler         yes           wire arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         57.2 gm           Material jacket         PUR           Shore hardness jacket         90.5 Shore A           Freedom from Ingredients (jacket)         90.5 Shore A           Coller-diameter (jacket)         5,6 mm           Coller-diameter (jacket)         5,6 mm           Coller-diameter insulation         PP           Armount strands (wire)         1,25 mm           Outer diameter insulation         70 ± Shore D           Ingredient freeness wire insulation         70 ± Shore D           Ingredient freeness wire insulation         1,25 mm           Outer diameter of single wires         0,1 mm           Conductor type (wire)         4 %	Cable identification	243
Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shiekling (type)         copper braid, finned           Cable shiekling (coverage)         80 %           Banding         Fleoce, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         57.2 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Firectorn from ingredients (jacket)         least-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         ± 5 %           Material wire insulation         ± 5 %           Material wire insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer		
Amount stranding   1	**	
Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (coverage)         80 %           Banding         Fleece, Foll           Filler         yes           wire arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         57.2 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, sillicone-free           Outer-diameter (gacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount sire insulation         1,25 mm           Outer diameter (sheath)         ± 5 %           Shore hardness wire insulation         ± 5 %           Outer diameter insulation         ± 5 %           Duter diameter sinsulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           Ingredient freeness wire insulation         ± 5 %           More thankes wire insulation         ± 5 % <td>Type of Certificate</td> <td></td>	Type of Certificate	
Stranding   S wires around Core filler twisted	<u> </u>	
Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filter         yes           wire arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         57,2 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)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Armount wires         5           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 freeness wire insulation         10 ± 5 %           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor type (wire)         5 stranded copper wire, bare           Nominal voltage Norther         5 M	Stranding	5 wires around Core filler twisted
Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         57.2 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)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter fusication (wire)         ± 5 %           Shore hardness wire insulation         1,25 mm           Outer diameter tolerance core insulation         12.5 mm           Outer diameter tolerance core insulation         4 5 %           Normel freeness wire insulation         10 ± 5 Shore D           Shore bardness wire insulation         10 ± 6 Shore D           Material conductor wire         1 mm           Conductor type (wire)         3.4 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)		copper braid, tinned
Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         57.2 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)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter tolarance core insulation         1,25 mm           Outer diameter lolarance core insulation         1,25 mm           Outer diameter lolarance core insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         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)         10 DIN VDE 0298-4           <	<u> </u>	
Filler yes wire arrangement brown, black, blue, white, gray  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weight 57.2 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) ± 5,6 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 5  Outer diameter insulation PP  Amount wires 5  Outer diameter insulation 1,25 mm  Outer diameter insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 10 add-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) 2 kV @ 60 s  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Min. operating temperature (static) 40 °C  Max. operating temperature min. (dynamic) -25 °C		Fleece, Foil
Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         57,2 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)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter insulation         1,25 mm           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           Anount 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 A max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Electrical resistance l	Filler	yes
Cable weigth         57,2 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)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         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           Courrent load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @	wire arrangement	brown, black, blue, white, gray
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Duter-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Duter diameter insulation         1,25 mm           Outer diameter tolerance core insulation         70 ± 5 Shore D           Ingredient freeness 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 orssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Corrent load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity win. wire         4,5 A           Electrical resistance line constant wire         57 Nrm @ 20	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)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         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 vivire of single wires         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         4,5 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	Cable weigth	57,2 g/m
Freedom from ingredients (jacket)  Duter-diameter (jacket)  5.6 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  5  Duter diameter insulation  1,25 mm  Duter diameter insulation  25 %  Shore hardness wire insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)  42  Diameter of single wires  Conductor crosssection (wire)  Outer diameter insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)  42  Diameter of single wires  On 1 mm  Conductor crosssection (wire)  Ostanded copper wire, bare  Conductor type (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 min. wire  4,5 A  Electrical resistance line constant wire  57 \( \Omega \text{V} \text{W} \text{ 60 s} \text{ 9 o s} \text{ AC withstand voltage (wire - wire)} \)  2 kV \( \text{ 60 s} \text{ 8} \text{ AC withstand voltage (wire - shield)} \)  Ac \( \text{V} \text{ W} \text{ 60 s} \text{  Min. operating temperature (static)} \)  40 °C  Max. operating temperature (fixed)  80 °C / 90 °C \( \text{ 0 10000 h Operation} \)  Operating temperature min. (dynamic)  -25 °C	Material jacket	PUR
Outer-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter swire 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         4,5 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 (fixed)         80 °C / 90 °C @ 10000 h Operation <t< td=""><td>Shore hardness jacket</td><td>90 ± 5 Shore A</td></t<>	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 5  Outer diameter insulation 1,25 mm  Outer diameter insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 1ead-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 4.5 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 min. (dynamic) -25 °C	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation       PP         Amount wires       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 min. wire       4,5 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         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature min. (dynamic)       -25 °C	Outer-diameter (jacket)	5,6 mm
Amount wires 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 min. wire 4,5 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) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (min. (dynamic) -25 °C	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 min. wire       4,5 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         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature min. (dynamic)       -25 °C	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       4,5 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 - siacket)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature min. (dynamic)       -25 °C	Amount wires	5
Shore hardness wire insulation Ingredient freeness wire insulation Ingredient freenes wire insulation Ingredient freenes, silicone-free Ingredient Free, cadmium-free, CFC-free, halogen-free, silicone-free Ingredient Free, cadmium-free, CFC-free, halogen-free, silicone-free Ingredient Freenes Ingredient Free, cadmium-free, CFC-free, halogen-free, silicone-free Ingredient Free, cadmium-free, CfC of the Section Free, cadmium-free, CFC-free, halogen-free, silicone-free, silicone-	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 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  4,5 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  AC withstand voltage (wire - shield)  2 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature min. (dynamic)  -25 °C	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 min. wire 4,5 A Electrical resistance line constant wire 57 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - iacket) AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature min. (dynamic) -25 °C	Shore hardness wire insulation	70 ± 5 Shore D
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 4,5 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 - alacket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature min. (dynamic) -25 °C	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  strand class 6  Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 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 - lacket)  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	Amount strands (wire)	42
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  4,5 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 - aiacket)  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	Diameter of single wires	0,1 mm
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 4,5 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  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	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Nominal voltage AC max.  300 V  Current load capacity (standard)  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  57 \( \Omega \text{Km} \empsyre 20 \cdot \text{C}  AC withstand voltage (wire - wire)  2 kV \( \omega \text{60 s} \text{ s}  AC withstand voltage (wire - shield)  2 kV \( \omega \text{60 s} \text{ s}  AC withstand voltage (wire - shield)  2 kV \( \omega \text{60 s} \text{ s}  AC withstand voltage (wire - shield)  2 kV \( \omega \text{60 s} \text{ s}  AC withstand voltage (wire - shield)  2 kV \( \omega \text{60 s} \text{ s}  AC withstand voltage (wire - shield)  2 kV \( \omega \text{60 s} \text{ s}  AC withstand voltage (wire - shield)  2 kV \( \omega \text{60 s} \text{ s}  AC withstand voltage (wire - shield)  2 kV \( \omega \text{60 s} \text{ s}  AC withstand voltage (wire - shield)  2 kV \( \omega \text{60 s} \text{ s}  AC withstand voltage (wire - shield)  2 kV \( \omega \text{60 s} \text{ s}  40 \( \cdot \text{C}  Max. operating temperature (fixed)  80 \( \cdot C / 90 \cdot C \omega 10000 \text{ h Operation}  Operating temperature min. (dynamic)  -25 \( \cdot C \)	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 57 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - iacket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature min. (dynamic) -25 °C	Conductor type (wire)	strand class 6
Current load capacity min. wire 4,5 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		
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		to DIN VDE 0298-4
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  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	Current load capacity min. wire	· · · · · · · · · · · · · · · · · · ·
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		
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	<u> </u>	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		
Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic) -25 °C	Min. operating temperature (static)	-40 °C
		80 °C / 90 °C @ 10000 h Operation
Operating temperature max. (dynamic) 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	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
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
Torsion speed	35 cycles/min