

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

PVC 5x0.34 shielded gy UL/CSA 7.5m

Female 90° M12, 5-pole shielded

with cable sleeves

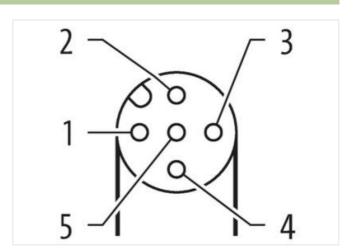
Plastic housings with good resistance against chemicals and oils.

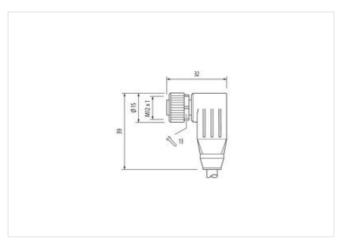
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

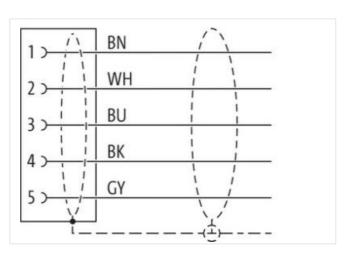
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

7,5 m

Side 1

Tightening torque

0,6 Nm

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: 2024-06-26



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-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879710640
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)	I
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
Mechanical data   Mounting data	



stay connected

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) -30 °C	Mounting method	inserted, screwed, Shaking protection
Operating temperature max.         85 °C           Additional condition temperature mana (apportunit proportant installation noises)         Additional condition temperature max.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ities.           Note on bending radius         Attention. Cheeve the permissibile bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Wire arrangement         brown, black, blue, white, gray           Cable information         203         Cable (approximation)           Cable of Type         1         Cable (approximation)           Type of Cartificate         cURus           Amount stranding         1         Cable (approximation)           Signaling         5 wires around Core filter twisted           Cable shelding (type)         copper braid, finend           Cable in selecting (coverage)         80 %           Banding         Fleece, Foil           Filter         yes           wire arrangement         brown, black, blue, white, gray           Cable weight         86.2 grim           Ware arrangement         brown, black, blue, white, gray	Environmental characteristics   Climatic	
Important installation notes	Operating temperature min.	-25 °C
Important installation notes		85 °C
Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Image: Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         Image: Product standard or product standard product standard or product standard or product standard or product standard (sheath)         Product standard product standard product standard product standard product standard product standard (sheath)         Product standard product standard product standard product standard product standard product standard (sheath)         Product standard product product standard product product produc	· · · ·	depending on cable quality
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on bending radius Atentions: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard  DIN EN 61076-2-101 (M12)  Institution (Cable  wire arrangement  brown, black, blue, white, gray  Cable identification 233  Cable Type 1  1  1. decket Color gray  Type of Certificate cURus  Amount stranding 1  Swies around Core filter twisted  Cable shalleding (type) cooper braid, timod		
Afterlion: Observe the permissible heading radius endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cabbe    wine arrangement brown, black, blue, white, gray  Cabbe (admitication 203  Cabbe (admitication 204)  Labeker Color gray  Type of Certificate culfus  Stranding 5 wires around Core Iller twisted  Cabbe (admitication 205)  Stranding 5 wires around Core Iller twisted  Cabbe shelding (type) copper braid, timed  Cabbe shelding (coverage) 80 %  Banding Fisece, Foil  Filler ys  wire arrangement brown, black, blue, white, gray  Cabbe weight Assert the shelding (type) copper braid, timed  Cabbe shelding (coverage) 80 %  Sabbe shelding (coverage) 80 %  Sabbe shelding (coverage) 80 %  Wire arrangement brown, black, blue, white, gray  Cabbe weight 88,2 gray  Malerial jacket PVC  Shore hardness jacket PVC  Shore hardness jacket PVC  Shore nationess jacket PVC  Anount diameter (sketen) 5,5 mm  Colled weight (sketen) 1,25 mm  Outer diameter folkerance core insulation 1,25 mm  Outer diameter insulation PVC  Anount diameter involvation 1,25 mm  Outer diameter involvation 2,5 mm  Good machinability ingredient frencess wire insulation 1,25 mm  Outer diameter involvation 2,04 mm/  Ingredient frencess wire insulation 1,25 mm  Conductor type of the wire insulation 1,25 mm  Conductor type properties wire insulation 1,25 mm  Conductor type properties wire insulation 1,25 mm  Conductor type of the size insulation 1,25 mm  Conductor type of the size insulation 1,25 mm  Conductor type gray with stand voltage (wire - 1) of 1,5 mm  Conductor type gray with stand voltage (wire - 1) of 1,5 mm  Conductor type gray with stand voltage (wire - 1) of 1,5 mm  Conductor type gray with stand voltage (wire - 1) of 1,5 mm  Conductor type gray with stand voltage (wire - 1) of 1,5 mm  Conductor type gray with stand voltage (wire - 1) of 1,5 mm  Conductor type gray with stand voltage (wire - 1) of		District the connectors by suitable measures from machanical leads, a. a. by the years of cable ties
Conformity           Conditional (and add)         DIN EN 61076-2-101 (M12)           Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable         brown, black, blue, white, gray           Cable Identification         203           Cable Type         1           Jackot Color         gray           Type of Certificate         CURus           Amount stranding         1           Standing         5 wire around Core Illier twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (type)         copper	Note on strain relief	
Installation   Cable	Note on bending radius	
Installation   Cable         brown, black, blue, white, gray           wire arrangement         brown, black, blue, white, gray           Cabble identification         203           Cabble Type         1           Jacket Color         gray           Type of Certificate         cURfus           Amount stranding         1           Stranding         5 wres around Core filter twisted           Cabbe shielding (type)         copper braid, linned           Cable shielding (coverage)         80 %           Banding         Fleece, Foll           Filter         yes           wire arrangement         brown, black, blue, white, gray           Cable weight         68.2 gm           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Froedom from imgredients (jacket)         5.6 mm           Tolerance outer diameter (whealth)         ± 5 %           Material wire insulation         PVC           Auterial wire insulation         1,25 mm           Outer diameter (sheath)         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insul	Conformity	
wire arrangement         brown, black, blue, white, gray           Cable Individual         203           Cable Type         1           Jacket Color         gray           Type of Certificate         cURus           Amount alranding         1           Stranding         5 wires around Core filler twisted           Cable shelding (type)         60 %           Cable shelding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weight         68.2 ym           Material jacket         PC           Shore hardness jacket         85 ± 5 Shore A           Freedom from Ingredients (jacket)         1.8 mm           Colure diameter (jacket)         5.8 mm           Tolerance outer diameter (jacket)         1.5 mm           Outer diameter (jacket)         1.5	Product standard	DIN EN 61076-2-101 (M12)
Cable identification         203           Cable Type         1           Jackel Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (coverage)         80 %           Bandring         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weight         68.2 g/m           Material Jacket         PVC           Shore hardness jacket         PVC           Shore hardness jacket         PVC           Tolerance outer diameter (sacket)         5,6 mm           Tolerance outer diameter (sacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         5           Outer diameter folerance core insulation         1,25 mm           Outer diameter folerance core insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         leaf-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0	Installation   Cable	
Cable identification         203           Cable Type         1           Jackel Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (coverage)         80 %           Bandring         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weight         68.2 g/m           Material Jacket         PVC           Shore hardness jacket         PVC           Shore hardness jacket         PVC           Tolerance outer diameter (sacket)         5,6 mm           Tolerance outer diameter (sacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         5           Outer diameter folerance core insulation         1,25 mm           Outer diameter folerance core insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         leaf-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0	wire arrangement	brown, black, blue, white, gray
Cable Type         1           Jacket Color         gray           Yppe of Certificate         cUPus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foll           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weight         68,2 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (sket)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         90 machinability           Ingredient reseass wire insulation         90 machinability           Ingredient reseass wire ins		
Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Cable shielding (type)         copper braid, timed           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weigth         68.2 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter size insulation         45 ± 5 Shore D           Material properties wire insulation         1,5 mm           Outer diameter tolerance core insulation         1,5 mm           Outer diameter size insulation         1,5 mm           Outer diameter insulation         1,5 mm           Outer diameter insula	Cable Type	
Type of Certificate		
Amount stranding 1 Stranding 5 wires around Core filler twisted Cable shielding (type) copper braid, timed Cable shielding (coverage) 80 % Banding Filer yes Wrie arrangement brown, black, blue, white, gray Cable weigth 88,2 g/m Material jacket PVC Shore hardness jacket PVC Outer-diameter (jacket) lead-free, cadmium-free, CFC-free, silicone-free Outer-diameter (jacket) 5.6 mm Tolerance outer diameter (shealth) ± 5 % Material wire insulation PVC Amount wires  5 Coulter diameter insulation 1,25 mm Outer diameter folerance core insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Material conductor wire Conductor type (wire) Strand class 5 Nominal voltage (wire) Strand class 5 Nominal voltage AC max. 300 V Current load capacity vistand voltage (wire - yie) 2 kV @ 60 s Heave requency withstand voltage (wire - wire) 2 kV @ 60 s Mac, operating temperature (tixed) 80 °C		
Stranding   Stranding   Stranding   Stranding   Cable shielding (type)   Copper braid, tinned		
Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weigh         68.2 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0,15 mm           Conductor (wire)         Stranded copper wire, bare <th< td=""><td>Stranding</td><td>5 wires around Core filler twisted</td></th<>	Stranding	5 wires around Core filler twisted
Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weigth         68,2 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material vire insulation         PVC           Amount wires         5           Outer diameter tolerance core insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Anount strands (wire)         19           Diameter of single wires         0,15 mm           Conductor crossection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Stranded copper wire, bare		copper braid, tinned
Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weight         68,2 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5.6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter lolerance core insulation         4 5 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         19           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,34 mm²           Material voltage (wire)         Stranded copper wire, bare           Conductor type (wire)         Stranded copper wire, bare           Current load capacity min. wire         4,5 A           Electrical resistance line constant wire         4,5 A           Electrica		
Filler yes wire arrangement brown, black, blue, white, gray  Cable weight 68,2 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 5,6 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 5  Outer diameter insulation 1,25 mm  Outer diameter rolerance core insulation ± 5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  Conductor type (wire) Stranded copper wire, bare  Current load capacity (standard) to IDIN VDE 0298-4  Current load capacity (standard) to IDIN VDE 0298-4  Current load capacity min. wire 4,5 A  Ellectrical resistance line constant wire 57 Ω/m @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Mac. operating temperature (fixed) 80 °C  Max. operating temperature (fixed) 80 °C		
wire arrangement brown, black, blue, white, gray  Cable weigth 68,2 g/m  Material jacket PVC  Shore hardness jacket 85 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free  Outer-diameter (jacket) 5,6 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PVC  Amount wires 5  Outer diameter insulation 1,25 mm  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation 1,25 mm  Outer diameter insulation 45 ± 5 Shore D  Material properties wire insulation good machinability  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  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 (standard) to DIN VDE 0298-4  Current load capacity (with wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - wire) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (fixed) 80 °C		
Cable weight         68,2 g/m           Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         tead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter insulation         45 ± 5 Shore D           Material properties wire insulation         45 ± 5 Shore D           Material properties wire insulation         goad machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount stands (wire)         19           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           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 wirin, wire <th< td=""><td></td><td>•</td></th<>		•
Material jacket         PVC           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0,15 mm           Conductor crossection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor by (wire)         Stranded copper wire, bare           Conductor by (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	-	<del>-</del> ·
Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         good machinability           Ingredient Treeness wire insulation         good machinability           Ingredient Treeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Stranded copper wire, bare           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, wire         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s		· · · · · · · · · · · · · · · · · · ·
Freedom from ingredients (jacket)  Outer-diameter (jacket)  5,6 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  Outer diameter insulation  PVC  Amount wires  5  Outer diameter insulation  1,25 mm  Outer diameter insulation  45 ± 5 %  Shore hardness wire insulation  45 ± 5 Shore D  Material properties wire insulation  19  Diameter of single wires  0,15 mm  Conductor crosssection (wire)  Material conductor wire  Stranded copper wire, bare  Conductor type (wire)  Strand class 5  Nominal voltage AC max.  300 V  Current load capacity (standard)  Lo DIN VDE 0298-4  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  2 kV @ 60 s  Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  40 °C  Max. operating temperature (static)  80 °C  Max. operating temperature (static)  80 °C		85 + 5 Shore A
Outer-diameter (jacket)         5,6 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PVC           Amount wires         5           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         45 ± 5 Shore D           Material properties wire insulation         good machinability           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         19           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           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 Q/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	•	
Tolerance outer diameter (sheath)		
Material wire insulation PVC  Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ±5 % Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Conductor type (wire) Stranded capes wise insulation 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 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C		· · · · · · · · · · · · · · · · · · ·
Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free Amount strands (wire) 19 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) Strand class 5 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) -30 °C  Max. operating temperature (fixed) 80 °C		
Outer diameter insulation       1,25 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       45 ± 5 Shore D         Material properties wire insulation       good machinability         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Amount strands (wire)       19         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       Strand class 5         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)       -30 °C         Max. operating temperature (fixed)       80 °C		5
Outer diameter tolerance core insulation ±5 %  Shore hardness wire insulation 45 ± 5 Shore D  Material properties wire insulation good machinability Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free  Amount strands (wire) 19  Diameter of single wires 0,15 mm  Conductor crosssection (wire) 0,34 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) Strand class 5  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  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C		
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Material properties wire insulation       good machinability         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, silicone-free         Amount strands (wire)       19         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,34 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       Strand class 5         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)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -30 °C         Max. operating temperature (fixed)       80 °C	Shore hardness wire insulation	
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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)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -30 °C         Max. operating temperature (fixed)       80 °C		
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) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C		
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)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -30 °C         Max. operating temperature (fixed)       80 °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) -30 °C  Max. operating temperature (fixed) 80 °C	Current load capacity min. wire	
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Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  Ac withstand voltage (wire - shield)  Min. operating temperature (static)  AC withstand voltage (wire - shield)  Set We 60 s  Wax. operating temperature (fixed)  So C	AC withstand voltage (wire - wire)	
AC withstand voltage (wire - shield)  2 kV @ 60 s  Min. operating temperature (static)  -30 °C  Max. operating temperature (fixed)  80 °C	Power frequency withstand voltage (wire -	-
Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C	AC withstand voltage (wire - shield)	2 kV @ 60 s
Max. operating temperature (fixed) 80 °C	Min. operating temperature (static)	
	Max. operating temperature (fixed)	80 °C
		-5 °C



Operating temperature max. (dynamic)	80 °C
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   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
Bending radius (fixed)	10 x Outer diameter