

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

PUR 4x0.34 shielded gy 1m

Female 90° M12, 4-pole shielded

with cable sleeves

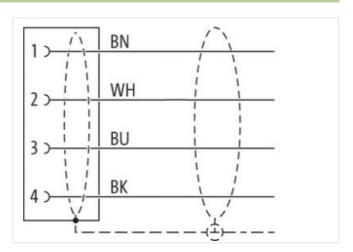
Plastic housings with good resistance against chemicals and oils.

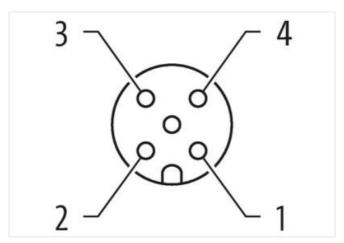
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

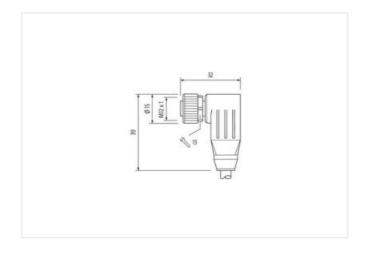
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

1 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: 2024-05-20



Mounting method inserted, screwed Family construction form M12 M12 x 1 Thread 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 4048879312714 Packaging unit Electrical data | Supply Operating voltage AC max. 60 V Operating voltage DC max. 60 V Current operating per contact max. 4 A Installation | Connection M12 x 1 Mounting set Device protection | Electrical Additional condition protection degree inserted, screwed Pollution Degree Rated surge voltage 1,5 kV Material group (IEC 60664-1) Mechanical data | Material data Coating locking Nickeled Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data | Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics | Climatic Operating temperature min. -25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality Important installation notes 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 Note on bending radius endangered by excessive bending forces. Conformity DIN EN 61076-2-101 (M12) Product standard Installation | Cable wire arrangement brown, black, blue, white 331 Cable identification



## stay connected

Strandling	Jacket Color	gray
Fleece, Foil   Wrow. Talack, blue, white   Wrow. Talack	Amount stranding	1
wire arrangement         brown, black, blue, white           Material jacket         PUR           Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Outer-diameter (jacket)         5 9 mm           Orderance under diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         pVC           Amount wires         4           Outer diameter insulation         PVC           Amount wires         4           Outer diameter insulation         5 5 Shore A           Ingredient freeness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         42           Diameter of single wires         0.1 mm           Conductor reassection (wire)         0.34 mm²           Material conductor wire         Stranded capper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (wire - wire)         2 kV @ 60 s           Electrical r	Stranding	4 wires twisted
Material jacket         PUR           Shore hardness jacket         85 ± 5 Shore A           Freedom from predents (jacket)         5,9 mm           Outer-diamoter (jacket)         5,9 mm           Tolerance outer diameter (health)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter forence ore insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         85 ± 5 Shore A           Amount stranck vive?         42           Diameter of single wires         0,1 mm           Conductor respectority (wire)         34 mm²           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0288-4           Current load capacity (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2 kV @ 60 s           AC withst	Banding	Fleece, Foil
Shore hardness jacket         85 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, silicone-free           Out-e-diameter (jacket)         5 9 mm           Tolerance outer diameter (sheath)         ± 5 %           Material inner jacket         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         4           Outer diameter betrance core insulation         1,4 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         1,4 mm           Outer diameter oberance core insulation         4 €           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor ressection (wire)         0,34 mm²           Material conductor vire         Stranded copper wire, bare           Conductor type (wire)         \$3 mm²           Max. rated voltage (conductor - ground)         300 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity first. wire         4,8 A <t< td=""><td>wire arrangement</td><td>brown, black, blue, white</td></t<>	wire arrangement	brown, black, blue, white
Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, silicone-free	Material jacket	PUR
Outer-diameter (jacket)         5,9 mm           Tolarance outer diameter (sheath)         ± 5 %           Material inner jacket)         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter tolerance core insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         86 ± 5 Shore A           Ingredient freeness wire insulation         16ad-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor vire (sold wire)         0,34 mm²           Material conductor wire         Stranded opper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (islandard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Okm @ 20 °C           AC withstand voltage (wire - shield)	Shore hardness jacket	85 ± 5 Shore A
Outer-diameter (jacket)         5,9 mm           Tolarance outer diameter (sheath)         ± 5 %           Material inner jacket)         PVC           Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter tolerance core insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         86 ± 5 Shore A           Ingredient freeness wire insulation         16ad-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor vire (sold wire)         0,34 mm²           Material conductor wire         Stranded opper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (islandard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Okm @ 20 °C           AC withstand voltage (wire - shield)	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Material inner jacket         PVC           Color (nner jacket)         gray           Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor reossection (wire)         0,34 mm²           Material conductor vive         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         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           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - sield)         1,5 kV @ 60 s           AC withstand voltage (wire - sield)         1,5 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature	Outer-diameter (jacket)	5,9 mm
Color (inner jacket)         gray           Material wire insulation         PVC           Amount wires         4           Outer diameter lostrance core insulation         1,4 mm           Outer diameter blerance core insulation         ± 5 %.           Shore hardness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         42           Diameter of single wires         0,1 mm           Conductor from the conductor of single wires         0,1 mm           Conductor of single wires         0,1 mm           Conductor respective (wire)         34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0299-4           Current load capacity (standard)         to DIN VDE 0299-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Ω/m @ 20 °C           AC withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature	Tolerance outer diameter (sheath)	±5%
Material wire insulation         PVC           Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter folorance core insulation         85 ± 5 Shore A           Shore hardness wire insulation         86 ± 5 Shore A           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor (wipe)         9,34 mm²           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity (wire - wire)         2 kV @ 60 s           Electrical resistance line constant wire         57 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - siled)         1,5 kV @ 60 s           Max. operating temperature (fixed)         80 °C      <	Material inner jacket	PVC
Amount wires         4           Outer diameter insulation         1,4 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-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 (rosssection (wire)         350 V           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - conductor)         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 0,km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Max. operating temperature (static)         -30 °C           Max. operating temperature (static)         -5 °C           Operating temperature max. (dynamic)         5 °C           Operating temperature max. (dynamic)         5 °C	Color (inner jacket)	gray
Outer diameter Insulation         1,4 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-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)         stranded copper wire, bare           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - cyround)         300 V           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         57 Økm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         5° °C           Poperating temperature min. (dynamic)         5° °C           Poperating temperature min. (dynamic)         5° °C           Or resistance         Go	Material wire insulation	PVC
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-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           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         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           AC withstand voltage (wire - wire)         2 kV ⊕ 60 s           Power frequency withstand voltage (wire - shield)         1,5 kV ⊕ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (static)         -30 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           che	Amount wires	4
Shore hardness wire insulation         85 ± 5 Shore A           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-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           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity wini. 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 - glacket)         2 kV @ 60 s           AC withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature (static)         30 °C           Max. operating temperature (mixed)         80 °C           Operating temperature max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         -5 °C           Chemical resistance         Good, application-related testing           Gasoline resistance </td <td>Outer diameter insulation</td> <td>1,4 mm</td>	Outer diameter insulation	1,4 mm
Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-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           Max. rated voltage (conductor - ground)         350 V           Max. rated voltage (conductor - ground)         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 - sicket)         2 kV @ 60 s           Min. operating temperature (static)         30 °C           Max. operating temperature (static)         30 °C           Max. operating temperature max. (dynamic)         5 °C           Operating temperature max. (dynamic)         5 °C           Gasoline resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           <	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  Max. rated voltage (conductor - conductor) 350 V  Max. rated voltage (conductor - ground) 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  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) 1,5 kV @ 60 s  Min. operating temperature (static) 30 °C  Max. operating temperature (static) 30 °C  Max. operating temperature (fixed) 80 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter  Bending radius (fixed) 15 x Outer diameter  Bending radius (fixed) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Shore hardness wire insulation	85 ± 5 Shore A
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  Max. rated voltage (conductor - conductor) 350 V  Max. rated voltage (conductor - ground) 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  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) 1,5 kV @ 60 s  Min. operating temperature (static) 30 °C  Max. operating temperature (static) 30 °C  Max. operating temperature (fixed) 80 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter  Bending radius (fixed) 15 x Outer diameter  Bending radius (fixed) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         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)         1,5 kV @ 60 s           Min. operating temperature (static)         -30 °C           Max. operating temperature (fixed)         80 °C           Operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (fixed)         10 × Outer diameter	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Max. rated voltage (conductor - conductor) 350 V  Max. rated voltage (conductor - ground) 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) 1,5 kV @ 60 s  AC withstand voltage (wire - shield) 1,5 kV @ 60 s  Min. operating temperature (static) -30 °C  Operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance Good, application-related testing   DIN EN 6081-404  Bending radius (fixed) 10 × Outer diameter  Bending radius (fixed) 15 × Outer diameter  Bending radius (fixed) 15 × Outer diameter  Bending radius (fixed) 15 × Outer diameter  No. of bending cycles (C-track) 5 m @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Diameter of single wires	0,1 mm
Conductor type (wire)         strand class 6           Max. rated voltage (conductor - conductor)         350 V           Max. rated voltage (conductor - ground)         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)         1,5 kV @ 60 s           AC withstand voltage (wire - shield)         1,5 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Max. operating temperature min. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Oair resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         10 x Outer diameter           Bending radius (dynamic)         15 x Outer diameter	Conductor crosssection (wire)	0,34 mm²
Max. rated voltage (conductor - conductor)  Max. rated voltage (conductor - ground)  Max. rated voltage (conductor - ground)  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)  AC withstand voltage (wire - shield)  1,5 kV @ 60 s  AC withstand voltage (wire - shield)  1,5 kV @ 60 s  Min. operating temperature (static)  -30 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  -5 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gil resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C	Material conductor wire	Stranded copper wire, bare
Max. rated voltage (conductor - ground)  As a rated voltage (conductor - ground)  Current load capacity (standard)  Current load capacity (standard)  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)  Ac withstand voltage (wire - shield)  1,5 kV @ 60 s  Min. operating temperature (static)  430 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  70 °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   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 (installation)  x Outer diameter  Bending radius (fixed)  15 x Outer diameter  No. of bending cycles (C-track)  0,1 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C	Conductor type (wire)	strand class 6
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)       1,5 kV @ 60 s         AC withstand voltage (wire - shield)       1,5 kV @ 60 s         Min. operating temperature (static)       -30 °C         Max. operating temperature (fixed)       80 °C         Operating temperature min. (dynamic)       -5 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   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 (installation)       x Outer diameter         Bending radius (fixed)       10 x Outer diameter         Bending radius (dynamic)       15 x Outer diameter         Bending radius (dynamic)       15 x Outer diameter         Bending radius (fixed)       10 x Outer diameter         Bending radius (dynamic)       15 x Outer diameter         Bending radius (dynamic)       5 m	Max. rated voltage (conductor - conductor)	350 V
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) 1,5 kV @ 60 s  AC withstand voltage (wire - shield) 1,5 kV @ 60 s  Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing    Oil resistance Good, application-related testing    Din Ending radius (installation) x Outer diameter  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Max. rated voltage (conductor - ground)	300 V
Electrical resistance line constant wire 57 \( \Omega \) \( \text{ M} \) \( \omega \) \( \text{ O} \) \( \text{ M} \) \( \omega \) \( \text{ O} \) \( \text{ S} \) \( \text{ M} \) \( \omega \) \( \text{ S} \) \( \text{ M} \) \( \omega \) \( \text{ S} \) \( \text{ M} \) \( \omega \) \( \text{ S} \) \( \text{ M} \) \( \omega \) \( \text{ S} \) \( \text{ M} \) \( \omega \) \( \text{ S} \) \( \text{ M} \) \( \text{ M} \) \( \text{ O} \) \( \text{ S} \) \( \text{ M} \) \( \text{ M} \) \( \text{ M} \) \( \text{ O} \) \( \text{ S} \) \( \text{ M} \) \( \text{ O} \) \( \text{ C} \) \( \text{ Departing temperature (fixed)} \) \( \text{ S} \) \( \text{ C} \) \( \text{ Operating temperature min. (dynamic)} \) \( \text{ -5 °C} \) \( \text{ Operating temperature max. (dynamic)} \) \( \text{ 70 °C} \) \( \text{ Flame resistance} \) \( \text{ UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090} \) \( \text{ chemical resistance} \) \( \text{ Good, application-related testing} \) \( \text{ Good, application-related testing} \) \( \text{ Oil resistance} \) \( \text{ Good, application-related testing} \) \( \text{ Oil N EN 60811-404} \) \( \text{ Bending radius (installation)} \) \( \text{ x Outer diameter} \) \( \text{ Bending radius (dynamic)} \) \( \text{ 15 x Outer diameter} \) \( \text{ 15 x Outer diameter} \) \( \text{ 15 x Outer diameter} \) \( \text{ N Oil of bending cycles (C-track)} \) \( \text{ 0,1 Mio. @ 25 °C} \) \( \text{ Traversing distance (C-track)} \) \( \text{ 5 m @ 25 °C} \)	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 1,5 kV @ 60 s  AC withstand voltage (wire - shield) 1,5 kV @ 60 s  Min. operating temperature (static) -30 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   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 (installation) x Outer diameter  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  1,5 kV @ 60 s  Min. operating temperature (static)  30 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  -5 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  7 m @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C	Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  Min. operating temperature (static)  AS °C  Max. operating temperature (fixed)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  For °C  Operating temperature max. (dynamic)  To °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  0,1 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing  Oil resistance  Good, application-related testing   DIN EN 60811-404  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  0,1 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C	Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -5 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   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 (installation) x Outer diameter  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	AC withstand voltage (wire - shield)	1,5 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404 Bending radius (installation) x Outer diameter Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 5 m @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Min. operating temperature (static)	-30 °C
Operating temperature max. (dynamic)  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   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 (installation)  x Outer diameter  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  5 m @ 25 °C  Traversing distance (C-track)	Max. operating temperature (fixed)	80 °C
Flame resistance  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  Good, application-related testing   DIN EN 60811-404  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  0,1 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C	Operating temperature min. (dynamic)	-5 °C
Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404 Bending radius (installation) x Outer diameter  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	chemical resistance	Good, application-related testing
Bending radius (installation) x Outer diameter  Bending radius (fixed) 10 x Outer diameter  Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Gasoline resistance	Good, application-related testing
Bending radius (fixed)  10 x Outer diameter  Bending radius (dynamic)  15 x Outer diameter  No. of bending cycles (C-track)  0,1 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C	Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (dynamic) 15 x Outer diameter  No. of bending cycles (C-track) 0,1 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C	Bending radius (installation)	x Outer diameter
No. of bending cycles (C-track)  7 (C-track)  9,1 Mio. @ 25 °C  7 (C-track)  5 m @ 25 °C	Bending radius (fixed)	10 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C	Bending radius (dynamic)	15 x Outer diameter
	No. of bending cycles (C-track)	0,1 Mio. @ 25 °C
Travel speed (C-track) 3 m/s @ 25 °C	Traversing distance (C-track)	5 m @ 25 °C
	Travel speed (C-track)	3 m/s @ 25 °C