

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

PUR 1x2xAWG24 shielded vt UL/CSA+drag ch. 2m

**PROFIBUS** 

Female 90°

M12, 2-pole

B-coded

shielded

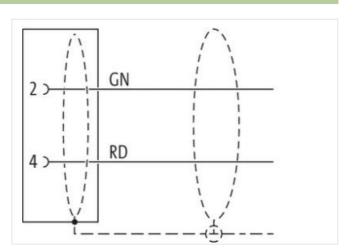
Plastic housings with good resistance against chemicals and oils.

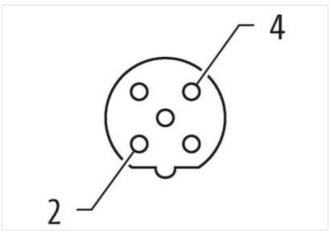
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

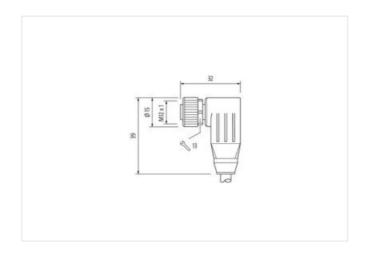
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

2 m

Side 1



stay connected

Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	В
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879477086
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	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.
Note on bending radius	<b>Attention:</b> 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)

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: 2024-05-08



stay connected

Jacket Color violet Type of Certificate culfus Type of Certificate culfus Amount stranding 1 Stranding 2 wires with 2 Filler twisted Cable shielding (type) copper braid, firmed Cable shielding (coverage) 55 % Banding Fleece, Foll Filler Yes Sanding Fleece, Foll Filler Yes Wird arrangement red, green Traversing distance (C-track) 5 m @ 25 °C   horizontal Cable weight 70.4 gm Material jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket (sheath) + 5 % Amount wires 20 Duter diameter (sheath) + 5 % Shore hardness wire insulation 2.55 mm Outer diameter tolerance core insulation 60 ± 3 Shore D Ingredient feeness wire insulation 60 ± 3 Shore D Ingredient feeness wire insulation (see AWG Conductor vires 24 AWG Conductor crosssection (wire) 24 AWG Conductor vires Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) in DIN VDE 0289 4 Current load capacity (standard) 0 DIN VDE 0289 4 Current load capacity (standard) 2 VV @ 60 s Electrical resistance in (cynamic) 200 °C Max. operating temperature (sixed) 77 °C Max. operating temperature (sixed) 80 °C Operating temperature (sixed) 77 °C Max. operating temperature (sixed) 80 °C Operating temperature (sixed) 60 °C, S Culter diameter Operating temperature (sixed) 80 °C Operating temperature (sixed) 80 °	Installation   Cable	
Type of Certificate cURus Annount stranding 1 Annount stranding 2 were with 2 Filler twisted Cable shelding (coverage) 85 %  Bandring Floeco. Foll Filler yes Were arrangement ref., open Traversing distance (C-track) 5 m @ 25 °C   horizontal Cable weight 70 4 g/m Material jacket PUR Shore hardness jacket Freedom from ingredients (jacket) 12 % % Courter India Capacity is insulation 2,55 mm Outer diameter (sheath) 5 % Conductor crosssection (wire) 19 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Courter load capacity (standard) 10 NN VE 0288 4 Courter load capacity (yearning) 12 % Very 60 s Miles, operating temperature (mich) 12 % Very 60 s Miles, operating temperature (mich) 12 % Very 60 s Miles, operating temperature (mich) 12 % Very 60 s Miles, operating temperature (mich) 12 % Very 60 s Miles, operating temperature (mich) 12 % Very 60 s Miles, operating temperature (mich) 12 % Very 60 s Miles, operating temperature (mich) 12 % Coord, application-elected testing Coord, application-related test	Cable identification	841
Amount stranding         1           Stranding         2 wires with 2 Filter twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         85 %           Banding         Fleece, Foil           Filter         yes           wite a rangement         red, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         70, 4 gm           Material jacket         PUR           Shore hardroses jacket         87 ± 3 Shore A           Freedom from ingredients (jacket)         12 ± 3 Shore A           Freedom from ingredients (jacket)         7,7 mm           Other-diameter (sleadh)         2 ± 5 %           Amount wires         2           Quiter diameter of learneer (sleadh)         2.55 mm           Outer diameter of learnee core insulation         5 ± 3           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         40 ± 4 MVG           Onductor crosssection (wire)         24 AWG           Conductor crosssection (wire)         24 AWG           Conductor crosssection (wire)         10 In IN VE 0298 4	Jacket Color	violet
Stranding         2 wires with 2 Filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         85 %           Banding         Fleece, Foll           Filler         yes           wive arrangement         red., green           Toversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         70,4 g/m           Markerial jacket         PUR           Shore hardness jacket         87 ± 3 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Under-diameter (jacket)         7, 7mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         2           Outer diameter (sheath)         ± 5 %           Amount strands (vire)         ± 5 %           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         15 %           Amount strands (vire)         19           Diameter of single wires         24 AWG           Conductor or sessection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Normal voltage AC max.         300 IN VDE 0298-4 <td>Type of Certificate</td> <td>cURus</td>	Type of Certificate	cURus
Cable shielding (coverage)         85 %           Banding         Fleoco, Foll           Filler         yes           wito arrangement         red, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         70.4 g/m           Material jacket         PUR           Shore hardness jacket         87 ± 3 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7,7 mm           Tolorance outer diameter (sheath)         1.5 %           Amount vires         2           Outer diameter inolation         2.55 mm           Outer diameter inolation         2.55 mm           Outer diameter sive insulation         6.9 ± 3 Shore D           Ingredient freeness were insulation         6.9 ± 3 Shore D           Ingredient freeness were insulation         6.9 ± 3 Shore D           Diameter of single wires         24 AWG           Conductor crossection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Vorman Voltage AC max.         300 V           Current load capacity (sandard)         10 DIN VDE 0298-4           Current load capacity (sandard) </td <td>Amount stranding</td> <td>1</td>	Amount stranding	1
Cable shielding (coverage)         85 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         red, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         70,4 g/m           Material jacket         PUR           Shore hardness jacket         87 ± 3 Shore A           Freedom from ingredients (jacket)         7,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         2           Outer diameter (sheath)         ± 5 %           Shore hardness wire insulation         £ 5 %           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         18 de 4 MvG           Conductor crasssection (wire)         24 AWG           Conductor crasssection (wire)         24 AWG           Conductor or crasssection (wire)         24 AWG           Courrent load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min, wire         25 kV @ 60 s           Electric capacitance         2800 p PKm <td>Stranding</td> <td>2 wires with 2 Filler twisted</td>	Stranding	2 wires with 2 Filler twisted
Perconstruction   Perconstru	Cable shielding (type)	copper braid, tinned
Filler yes 25°C, horizontal red, green gre	Cable shielding (coverage)	85 %
wire arrangement         red, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         70.4 g/m           Material jacket         PUR           Shore hardness jacket         87 ± 3 Shore A           Freedom from ingredients (jacket)         87 ± 3 Shore A           Outer diameter (jacket)         7,7 mm           Tolerance outer diameter (seketh)         ± 5 %           Amount wires         2           Ucuter diameter insulation         ± 5 %           Amount wires         2           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 DN VDE 0298-4           Current load capacity (wire wire)         2 kV @ 60 s           Electrical resistance line constant wire         72.2 0 km @ 20 °C           AC withstand voltage (wire - shield) <t< td=""><td>Banding</td><td>Fleece, Foil</td></t<>	Banding	Fleece, Foil
Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         70.4 g/m           Material jacket         PUR           Shore hardness jacket         87 ± 3 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7.7 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         2           Outer diameter insulation         2,55 mm           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           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         7.2 Qikm @ 20 °C           AC withstand voltage (wire - shield)         2 kV @ 60 s           Electr	Filler	yes
Cable weigith         70,4 g/m           Material jacket         PUR           Shore hardness jacket         87 ± 3 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Duter-diameter (jacket)         7,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         2           Outer diameter Insulation         2,55 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 4 SWG           Conductor crosssection (wire)         24 AWG           Conductor crosssection (wire)         24 AWG           Conductor of single wires         25 CMG           Command	wire arrangement	red, green
Material Jacket         PUR           Shore hardness jacket         87 ± 3 Shore A           Freedom from ingradients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         2           Outer diameter tolerance core insulation         ± 5 %           Shore particular diameter insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Material conductor 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 min. wire         4,5 A           Electrical resistance line constant wire         72,2 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacitance         2000 pF/km	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Shore hardness jacket         87 ± 3 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7.7 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         2           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity wini. wire         4,5 A           Electrical resistance line constant wire         72,2 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric apacitance         29000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (fixed)         80 °C      <	Cable weigth	70,4 g/m
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         2           Outer diameter insulation         2,55 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           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         72,2 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         29000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (ixix)         30 °C           Operating temperature min. (dynamic)         70 °C	Material jacket	PUR
Outer-diameter (jacket)         7,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         2           Outer diameter insulation         2,55 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Conductor wire         Stranded copper wire, bare           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         72,2 (2 km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric apacitance         29000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (static)         -40 °C           Max. operating temperature min. (dynamic)         -0 °C           Operating temperature min. (dynamic)         -0 °C           Operating temperature m	Shore hardness jacket	87 ± 3 Shore A
Tolerance outer diameter (sheath) ± 5 % Annount wires 2 Outer diameter insulation 2.55 mm Outer diameter tolerance core insulation 5 % Shore hardness wire insulation 60 ± 3 Shore D Ingredient freeness wire insulation 60 ± 3 Shore D Ingredient freeness wire insulation 10 lead-free, cadmium-free, CFC-free, halogen-free Annount strands (wire) 19 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity fishandard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 72,2 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 29000 pF/km Power frequency withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (fixed) 80 °C Max. operating temperature (fixed) 80 °C Operating temperature (min. (dynamic) 70 °C Flame resistance 1EC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing IDIN EN 60811-404 Bending radius (fixed) 7,5 x Outer diameter	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount wires         2           Outer diameter insulation         2,55 mm           Outer diameter lolerance core insulation         ± 5 %.           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Material conductor 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           Electrical resistance line constant wire         72,2 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         29000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (mix. (dynamic)         70 °C           Operating temperature max. (dynamic)         70 °C	Outer-diameter (jacket)	7,7 mm
Outer diameter insulation     2,55 mm       Outer diameter tolerance core insulation     ± 5 %       Shore bardness wire insulation     60 ± 3 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free       Amount strands (wire)     19       Diameter of single wires     24 AWG       Conductor crosssection (wire)     24 AWG       Material conductor wire     Stranded copper wire, bare       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     72,2 \( \Omega\) km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Electric capacitance     29000 pF/km       Power frequency withstand voltage (wire - sacket)     2 kV @ 60 s       AC withstand voltage (wire - shield)     2 kV @ 60 s       Min. operating temperature (static)     40 °C       Max. operating temperature (static)     40 °C       Max. operating temperature (static)     70 °C       Poperating temperature min. (dynamic)     70 °C       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	Tolerance outer diameter (sheath)	± 5 %
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           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         72,2 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         29000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature (fixed)         80 °C           Operating temperature (min. (dynamic)         -20 °C           Operating temperature (min. (dynamic)         -20 °C           Operating temperature (min. (dynamic)         -20 °C<	Amount wires	2
Shore hardness wire insulation         60 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Material conductor wire         Stranded copper wire, bare           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         72,2 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         29000 pF/km           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Max. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090           Chemical resistance         Good, application-related testing           Chasoline resistance         Good, application-related testing   DIN EN 60811-404	Outer diameter insulation	2,55 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free Amount strands (wire) 19 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material conductor 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 min. wire 4,5 A Electrical resistance line constant wire 72,2 Q/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 29000 pF/km 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 (fixed) 80 °C Operating temperature min. (dynamic) -20 °C Operating temperature max. (dynamic) 70 °C Flame resistance EC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing Bending radius (fixed) 7,5 x Outer diameter	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare Nominal voltage AC max. 300 V Current load capacity (standard) Current load capacity ini. wire 4,5 A Electrical resistance line constant wire 72,2 \( \Omega \text{km} \equiv 20 \circ C AC withstand voltage (wire - wire) 2 kV \( \equiv 60 \text{ s}  2 kV \( \equiv 60 \text{ s}  30 \text{ capacitance}  Power frequency withstand voltage (wire - aiacket) AC withstand voltage (wire - shield) 2 kV \( \equiv 60 \text{ s}  30 \text{ constant wire} 2 kV \( \equiv 60 \text{ s}  30 \text{ constant wire} 2 kV \( \equiv 60 \text{ s}  30 \text{ constant wire} 3 kV \( \equiv 60 \text{ s}  30 \text{ constant wire} 3 kV \( \equiv 60 \text{ s}  40 \( \circ C  40 \ci	Shore hardness wire insulation	60 ± 3 Shore D
Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Stranded copper wire, bare 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 72,2 \( \Omega \text{LVW} \) \( \Omega \text{0} \) Electric capacitance 29000 pF/km  Power frequency withstand voltage (wire - aiacket) 2 kV \( \Omega \text{0} \text{0} \text{S} \) AC withstand voltage (wire - shield) 2 kV \( \Omega \text{0} \text{0} \text{S} \) AC withstand voltage (wire - shield) 2 kV \( \Omega \text{0} \text{0} \text{S} \) AC withstand voltage (wire - shield) 2 kV \( \Omega \text{0} \text{0} \text{S} \) AC withstand voltage (wire - shield) 2 kV \( \Omega \text{0} \text{0} \text{S} \) AC withstand voltage (wire - shield) 2 kV \( \Omega \text{0} \text{S} \) AC withstand voltage (wire - shield) 30 °C  Operating temperature (static) 40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) 70 °C  Flame resistance    IEC 60332-2-2   UL 1581 \( \St{1} \) 110 FT2   UL 1581 \( \St{1} \) 1990  chemical resistance    Good, application-related testing   Gasoline resistance   Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free
Conductor crosssection (wire)  24 AWG  Material conductor wire  Stranded copper wire, bare  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  72,2 Ω/km @ 20 °C  AC withstand voltage (wire - wire)  2 kV @ 60 s  Electric capacitance  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  AC withstand voltage (wire - shield)  2 kV @ 60 s  AC withstand voltage (wire - shield)  2 kV @ 60 s  AC withstand voltage (wire - shield)  2 kV @ 60 s  AC withstand voltage (wire - shield)  2 kV @ 60 s  AC withstand voltage (wire - shield)  2 kV @ 60 s  AC withstand voltage (wire - shield)  30 °C  Operating temperature (static)  AO °C  Flame resistance  AC withstand voltage (wire - shield)  Coperating temperature max. (dynamic)  70 °C  Flame resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  Good, application-related testing  Din EN 60811-404  Bending radius (fixed)  7,5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter	Amount strands (wire)	19
Material conductor wire Stranded copper wire, bare  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 72,2 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 29000 pF/km  Power frequency withstand voltage (wire - acket)  AC withstand voltage (wire - shield) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Max. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -20 °C  Poperating temperature max. (dynamic) 70 °C  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) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	Diameter of single wires	24 AWG
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  72,2 \( \Omega \) / (80 s  Electric capacitance  29000 pF/km  Power frequency withstand voltage (wire - wire)  2 kV \( \omega \) 60 s  Electric capacitance  29000 pF/km  Power frequency withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  2 kV \( \omega \) 60 s  Max. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  Elec 60332-2-2   UL 1581 \( \green \) 1100 FT2   UL 1581 \( \green \) 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)  7,5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter	Conductor crosssection (wire)	24 AWG
Current load capacity (standard)  Current load capacity min. wire  4,5 A  Electrical resistance line constant wire  72,2 \( \Omega \text{ Mrm \( \text{ Q} \text{ 0} \text{ 0} \text{ S} \)  Electric capacitance  29000 pF/km  Power frequency withstand voltage (wire - shield)  2 kV \( \text{ 60 s} \text{ 80 s} \)  Electric capacitance  2 kV \( \text{ 60 s} \text{ 80 s} \)  Electric withstand voltage (wire - shield)  2 kV \( \text{ 60 s} \text{ 80 s} \)  Electric withstand voltage (wire - shield)  2 kV \( \text{ 60 s} \text{ 80 s} \)  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  -20 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  EC 60332-2-2   UL 1581 \( \xi \) 1100 FT2   UL 1581 \( \xi \) 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)  7,5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter	Material conductor wire	Stranded copper wire, bare
Current load capacity min. wire 4,5 A  Electrical resistance line constant wire 72,2 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 29000 pF/km  Power frequency withstand voltage (wire - aiacket) 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  Operating temperature min. (dynamic) -20 °C  Operating temperature max. (dynamic) 70 °C  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) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 72,2 \( \Omega \text{I/km} \) \( \omega \text{20} \cdot \text{C} \)  AC withstand voltage (wire - wire) 2 kV \( \omega \text{60} \text{60} \text{8} \)  Electric capacitance 29000 pF/km  Power frequency withstand voltage (wire - alacket) 2 kV \( \omega \text{60} \text{8} \)  AC withstand voltage (wire - shield) 2 kV \( \omega \text{60} \text{8} \)  Min. operating temperature (static) -40 \( \cdot \text{C} \)  Max. operating temperature (fixed) 80 \( \cdot \text{C} \)  Operating temperature min. (dynamic) -20 \( \cdot \text{C} \)  Operating temperature max. (dynamic) 70 \( \cdot \text{C} \)  Flame resistance IEC 60332-2-2   UL 1581 \( \xi \) 1100 FT2   UL 1581 \( \xi \) 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) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire)  2 kV @ 60 s  Electric capacitance  29000 pF/km  Power frequency withstand voltage (wire - acket)  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  Operating temperature min. (dynamic)  -20 °C  Operating temperature max. (dynamic)  70 °C  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)  7,5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter	Current load capacity min. wire	4,5 A
Electric capacitance 29000 pF/km  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 (fixed) 80 °C  Operating temperature min. (dynamic) -20 °C  Operating temperature max. (dynamic) 70 °C  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) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	Electrical resistance line constant wire	72,2 Ω/km @ 20 °C
Power frequency withstand voltage (wire - glacket)  AC withstand voltage (wire - shield)  AND withstand voltage (wire - shield)  AC withstand voltage (with a shield)  AC with a shield voltage (with a shield voltage (with a shield)  AC with a shield voltage (with a shield voltage (wi	AC withstand voltage (wire - wire)	2 kV @ 60 s
AC withstand voltage (wire - shield)  AC withstand voltage (wire shield)  AC	Electric capacitance	29000 pF/km
Min. operating temperature (static)  Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  Flame 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 (fixed)  7,5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter	Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -20 °C  Operating temperature max. (dynamic) 70 °C  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) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic)  70 °C 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) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)  70 °C  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)  7,5 x Outer diameter  Bending radius (dynamic)  12 x Outer diameter	Max. operating temperature (fixed)	80 °C
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) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	Operating temperature min. (dynamic)	-20 °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 (fixed) 7,5 x Outer diameter Bending radius (dynamic) 12 x Outer diameter	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (fixed) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (fixed) 7,5 x Outer diameter  Bending radius (dynamic) 12 x Outer diameter	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 12 x Outer diameter	Oil resistance	Good, application-related testing   DIN EN 60811-404
	Bending radius (fixed)	7,5 x Outer diameter
Travel speed (C-track) 5 Mio. @ 25 °C	Bending radius (dynamic)	12 x Outer diameter
	Travel speed (C-track)	5 Mio. @ 25 °C