

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

PUR 8x0.25 shielded gy UL/CSA+drag ch. 12m

Female 90° M12, 8-pole shielded

with cable sleeves

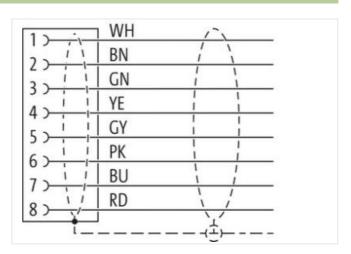
Plastic housings with good resistance against chemicals and oils.

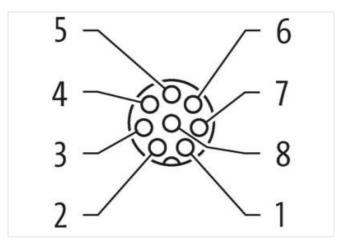
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

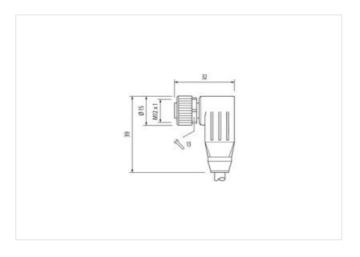
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

12 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: 2024-05-18



stay connected

Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
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	4048879831666
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	2 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	1
Mechanical data   Material data	
•	Nigheled
Coating locking	Nickeled
Coating of fitting  Locking material	nickel plated
Material screw connection	Zinc die-casting  Zinc die-casting
	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	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	



## stay connected

Amount stransing   1	Cable Type	3
Amount stransing   1	Jacket Color	gray
Stranding 8 wires around Core filler twisted Cable shelding (type) copper braid, timed Cable shelding (coverage) 80 % Banding Fisceo, Foll Filter yes wire arrangement brown, white, red, blue, pink, gray, yellow, green Cable weight 78.1 gm Material jacket PUR Shore hardness jacket PUR Shore hardness jacket 90.5 Shore A Freedom from ingredients (jacket) 190.5 Shore B Material wire industrion 201.5 Shore B Diameter of indige wires Outlet diameter followance core insulation 201.5 Shore B Diameter of single wires Outlet diameter (jacket) 201.5 Shore B Diameter of single wires Outlet diameter (jacket) 201.5 Shore B Diameter of single wires Outlet diameter (jacket) 201.5 Shore B Diameter of single wires Outlet diameter (jacket) 201.5 Shore B Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet diameter (jacket) 300 Y Diameter of single wires Outlet of jacket 300 Y Diameter of single wires Outlet of jacket 300 Y Diameter of single wires Outlet of jacket 300 Y Diameter of single wires Outlet of jacket 300 Y Diameter of single wires Outlet	Type of Certificate	cURus
Cable shielding (type) copper braid, tinned Cable shielding (coverage) 80 % Banding Fleese, Fol Filter wire arrangement brown, white, red, blue, pink, gray, yellow, green Cable weight 78 fl gm Material packet PUR Shore hardness jacket PUR Shore hardness jacket 90 £ 5 Shore A Freedom from ingredients (jacket) 196 £ 5 Shore A Freedom from ingredients (jacket) 197 mm Tollerance outse (flacket) 7 mm Tollerance outse (flacket) 25 % Material wire insulation PP Amount views 8 B B Cuter diameter insulation 1,2 mm Outer diameter insulation 1,3 mm Outer diameter insulation 1,3 mm Outer diameter insulation 1,4 mm Outer diameter diameter diameter diameter diameter 1,4 mm Outer diameter diameter diameter 1,4 mm Outer diameter diameter diameter 1,4 mm Outer diamete	Amount stranding	1
Cable shielding (coverage)         80 %           Banding         Flocos, Foll           Filtier         yos           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Cable weight         78.1 g/m           Material jacket         PLP           Shore hardnoss jacket         90.1 Shore A           Freedom from ingeriedints (jacket)         7 mm           Chate-diameter (jacket)         7 mm           Chate diameter (jacket)         7 mm           Other diameter (jacket)         7 mm           Material wire insulation         PP           Amount wires         8           Amount vires         8           Outer diameter insulation         1.2 mm           Outer diameter tolerance core insulation         70 ± 5 Shore D           Injury gredient freeness wire insulation         70 ± 5 Shore D           Anount strands (vire)         32           Diameter of single wires         0,1 mm           Conductor type (vire)         32           Diameter of single wires         0,1 mm           Conductor type (wire)         32 x and class 6           Conductor type (wire)         32 x and class 6           Conductor type (wire)         35 x and class 6	Stranding	8 wires around Core filler twisted
Sanding   Fleece, Foll	Cable shielding (type)	copper braid, tinned
Filter	Cable shielding (coverage)	80 %
wire arrangement brown, white, red, blue, pink, gray, yellow, green Cable weight 78,1 g/m Material jacket PUR Shore hardness jacket 190 ± Shore A Fraedom from ingredients (jacket) 90 ± 5 Shore A Fraedom from ingredients (jacket) 7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Material wire insulation 1,2 mm Outer diameter fraenance or insulation 1,2 mm Outer diameter fraenance vive insulation 1,2 mm Outer diameter of single wires 1,2 mm Outer diameter of single wires 1,2 mm Outer diameter of single wires 1,2 mm Outer diameter (fraed) 5 mm 2,2 mm Outer diameter (fraed) 5 mm 2,2 mm Outer diameter (fraed) 5 mm 2,2 mm 2,2 mm Outer diameter (fraed) 1,2 m	Banding	Fleece, Foil
Cable weight         78,1 g/m           Matorial jacket         PUR           Shore hardness jackel         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         ± 5 %           Matorial wire insulation         PP           Amount wires         8           Outer diameter folerance core insulation         ± 5 %           Shore hardness wire insulation         1,2 mm           Outer diameter folerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         1.2 mm           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor of single wires         0,1 mm           Conductor type (wire)         Stranded copper wire, bare           Travariang distance (C-track)         5 m @ 25 °C   hortzontal           Nominal voltage AC max.         300 V           Current load capacity (standardr)         to DIN VIDE 2098-4           Current load capacity min. wire         3 A           Electrical resistance line constant wire         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s	Filler	yes
Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from Ingredients (jacket)         7 mm           Tollerance outer diameter (jacket)         7 mm           Tollerance outer diameter (sheath)         ± 5 %           Material wrie insulation         PP           Amount wires         8           Outer diameter insulation         1,2 mm           Outer diameter insulation         1,2 mm           Outer diameter insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         32           Diameter of single wires         0,1 mm           Conductor type of single wires         0,1 mm           Conductor type (wire)         5 xanded copper wire, bare           Conductor type (wire)         5 m@ 25 °C   horizontal           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	wire arrangement	brown, white, red, blue, pink, gray, yellow, green
Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1,2 mm           Outer diameter tolerance core insulation         2 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         1,2 mm           Outer diameter tolerance core insulation         25 %           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor strands (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         5 m @ 25 * C) horizontal           Naminal vollage AC max         300 V           Current load capacity (standard)         to DIN VEE 0298.4           Current load capacity (standard)         to DIN VEE 0298.4           Current load capacity (wire wire)         3 A           Electrical resistance line constant wire         3 QX Mm @ 20 ° C           AC withstand voltage (wire - shie	Cable weigth	78,1 g/m
Freedom from ingredients (jacket)	Material jacket	PUR
Outer-diameter (jacket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1.2 mm           Outer diameter insulation         2.5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor rorsessection (wire)         0,25 mm²           Material conductor vire         Stranded copper wire, bare           Conductor (ype (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         10 DIN VDE 0298-4           Current load capacity win, wire         3 A           Electrical resistance line constant wire         79 D/km @ 20 °C           AC withstand voltage (wire - 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 tem	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter losulation         ± 5 %           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor or crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Electrical resistance line constant wire         3 P Okm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 100000 h Ope	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1,2 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire - wire)         2 kV @ 60 s           Electrical resistance line constant wire         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (mix. (dynamic)         25 °C           Power frequency withstand voltage (wire - shiel	Outer-diameter (jacket)	7 mm
Amount wires         8           Outer diameter insulation         1,2 mm           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, OFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           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         3 A           Electrical resistance line constant wire         79 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (static)         80 °C / 90 °C @ 10000 h Op	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation         1,2 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         32           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage A Cmax.         30 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Electrical resistance line constant wire         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Plame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related tes	Material wire insulation	PP
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount stands (wire)         32           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           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)         3 A           Electrical resistance line constant wire         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (mix. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation	Amount wires	8
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount stands (wire)         32           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           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)         3 A           Electrical resistance line constant wire         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (mix. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation	Outer diameter insulation	1,2 mm
Ingredient freeness wire insulation Amount strands (wire) 32 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,25 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 5 m @ 25 °C   horizontal Nominal voltage AC max. 300 V Current load capacity fishandard) to DIN VDE 0298-4 Current load capacity fishandard) to DIN VDE 0298-4 Current load capacity wire 3 A Electrical resistance line constant wire 79 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2 kV @ 60 s Power frequency withstand voltage (wire - wire) 2 kV @ 60 s AC withstand voltage (wire - shield) 40 °C Max. operating temperature (static) Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 0-25 °C Operating temperature max. (dynamic) Good, application-related testing Good, application-related testing Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter Travel speed (C-track) 5 Mio. 25 °C No. of torsion cycles 2 Mio. Torsion stress 2 30 °/m	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Conductor type (wire) strand class 6  Traversing distance (C-track) 5 m @ 25 °C   horizontal  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) 3 A  Electrical resistance line constant wire 79 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - shield) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (static) -40 °C  Max. operating temperature (ixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic) -25 °C  Good, application-related testing  Gasoline resistance Good, application-related testing  Oll resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (fixed) 5 × Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Conductor type (wire) strand class 6  Conductor type (wire) strand class 6  Traversing distance (C-track) 5 m @ 25 °C   horizontal  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) 3 A  Electrical resistance line constant wire 79 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - shield) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (static) -40 °C  Max. operating temperature (ixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature max. (dynamic) -25 °C  Good, application-related testing  Gasoline resistance Good, application-related testing  Oll resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  Bending radius (fixed) 5 × Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)         0,25 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           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         3 A           Electrical resistance line constant wire         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Opin tesistance	Amount strands (wire)	
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Electrical resistance line constant wire         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           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           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynam	Diameter of single wires	0,1 mm
Conductor type (wire)         strand class 6           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Electrical resistance line constant wire         79 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 (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1900           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         5 Mio. @ 25 °C           No. of torsion	Conductor crosssection (wire)	0,25 mm²
Traversing distance (C-track) 5 m @ 25 °C   horizontal  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 3 A  Electrical resistance line constant wire 79 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  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  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 DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	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         3 A           Electrical resistance line constant wire         79 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2 kV @ 60 s           Power frequency withstand voltage (wire - shield)         2 kV @ 60 s           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           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         DIN EN 60811-404   Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Travel speed (C-track)         5 Mio. @ 25 °C           No. of torsion cycles         2 Mio.           Torsion stress         ± 30 °/m	Conductor type (wire)	strand class 6
Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         3 A           Electrical resistance line constant wire         79 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           Max. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature min. (dynamic)         -25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           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           Gil resistance         DIN EN 60811-404   Good, application-related lesting           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         5 Mio. @ 25 °C           No. of torsion cycles         2 Mio.           Torsion stress         ± 30 °/m	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Current load capacity min. wire       3 A         Electrical resistance line constant wire       79 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - shield)       2 kV @ 60 s         AC withstand voltage (wire - shield)       2 kV @ 60 s         Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed)       80 °C / 90 °C @ 10000 h Operation         Operating temperature min. (dynamic)       -25 °C         Operating temperature max. (dynamic)       80 °C / 90 °C @ 10000 h Operation         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       DIN EN 60811-404   Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       5 Mio. @ 25 °C         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 79 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  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 DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire 79 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s  AC withstand voltage (wire - shield) 2 kV @ 60 s  Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic) -25 °C  Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  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 DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Current load capacity min. wire	3 A
Power frequency withstand voltage (wire - jacket)  AC withstand voltage (wire - shield)  AC withstand voltage (withstand voltag		79 Ω/km @ 20 °C
jacket)  AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  AC withstand voltage (wire - shield)  All o C  Max. operating temperature (fixed)  AD o C / 90 ° C @ 10000 h Operation  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  AD o C / 90 ° C @ 10000 h Operation  Operating temperature max. (dynamic)  Bo ° C / 90 ° C @ 10000 h Operation  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  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 × Outer diameter  Bending radius (dynamic)  10 × Outer diameter  Travel speed (C-track)  5 Mio. @ 25 ° C  No. of torsion cycles  2 Mio.  Torsion stress  ± 30 °/m	AC withstand voltage (wire - wire)	2 kV @ 60 s
AC withstand voltage (wire - shield)  2 kV @ 60 s  Min. operating temperature (static)  40 °C  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  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  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  ± 30 °/m	Power frequency withstand voltage (wire - iacket)	2 kV @ 60 s
Min. operating temperature (static)  Max. operating temperature (fixed)  80 °C / 90 °C @ 10000 h Operation  Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  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  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  5 Mio. @ 25 °C  No. of torsion cycles  ± 30 °/m		2 kV @ 60 s
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  -25 °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  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  No. of torsion cycles  ± 30 °/m		
Operating temperature min. (dynamic) Operating temperature max. (dynamic) So °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  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 DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		<u> </u>
Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		<u> </u>
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Bending radius (fixed)	5 x Outer diameter
Travel speed (C-track) 5 Mio. @ 25 °C  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
Torsion stress ± 30 °/m		
	•	
	Torsion speed	35 cycles/min