

## M12 female 0° A-cod. with cable LED

PUR 4x0.34 ye UL/CSA+robot+drag ch. 1m

Female straight M12, 4-pole

2× LED (PNP)

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

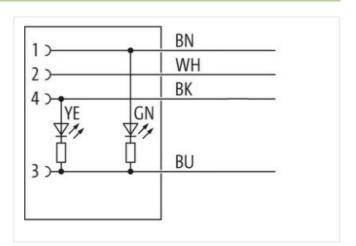
Plastic housings with good resistance against chemicals and oils.

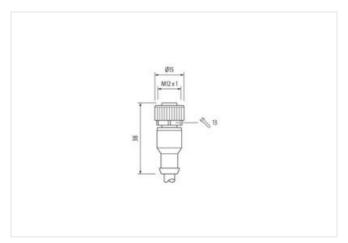
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

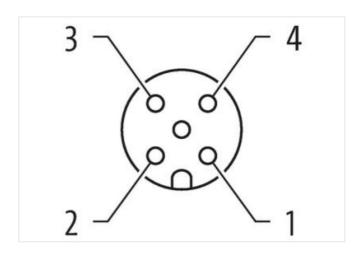
## **Link to Product**

## 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: 2024-06-26



Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27061801
ECLASS-7.0	27061801
ECLASS-8.0	27061801
ECLASS-9.0	27061801
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879741811
Packaging unit	1
Electrical data   Supply	
	24 V
Operating voltage DC	18 V
Operating voltage DC min.  Operating voltage DC max.	30 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
	48
Installation   Connection	Moud
Mounting set	M12 x 1
Device protection   Electrical	
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Mechanical data   Material data	
Coating locking	safe-cover coated
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	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	
installation   Cable	



## stay connected

Jacket Color   yellow   UPUs   CHILIST	wire arrangement	brown, black, blue, white
Jacket Color   yellow   UPUs   CHILIST	Cable identification	054
Type of Conflicate Amount stranding 1 Amount stranding 1 Amount stranding 1 Amount stranding 4 wires twisted  brown, black, blue, white  Cable weight 36.3 g/m Material jacket PUR  Material jacket PUR  Shore hardness jacket FUR  Shore hardness jacket 158 ± 3 Shore D Freedom from ingedients (jacket) 4,7 mm  Tolerance outer dismeter (seket) 4,8 mm  Amount stress 4 Cutter dismeter insulation 1,2 mm  Outer dismeter follorance outer insulation 1,2 mm  Outer dismeter of single wires 0,1 mm  Outer dismeter of single wires 0,1 mm  Outer dismeter of single wires 0,1 mm  Outer dismeter of single wires 0,2 mm  Material conductor wire 0 Stranded copper wire, barre 0 Dutter of single wires 0 Dutter of single views 0 Dutter of single wires 0 Dutter of single views 0 Dutter of single views 0 Dutter of single views 0 Du	Cable Type	5
Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Cable weight         98,3 g/m           Material jacket         PUR           Shore hardness jacket         58 ± 3 Shore D           Froadom from ingredients (jacket)         lead free, cadminim-free, CFC-free, halogen-free, silicone-free           Under-diameter (jacket)         4,7 mm           Tolerance outer diameter (jacket)         4,7 mm           Tolerance outer diameter (jacket)         1,25 mm           Outer diameter insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,25 mm           Outer diameter insulation         1,4 mm           Amount strands (king)         42           Dameter of single wires         0,1 mm           Conductor reassection (wire)         0,34 mm²           Material onductor were         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Conductor pipe (wire)         300 V           Current load capacity min. wire         4,8 A <t< td=""><td>Jacket Color</td><td>yellow</td></t<>	Jacket Color	yellow
Stranding	Type of Certificate	cURus
wire arrangement brown, black, blue, white Cable weight 36,3 g/m Material jacket PUR Shore hardness jacket 58 ± 3 Shore D Freedom from ingredients (jacket) 4,7 mm Columer-diameter (jacket) 4,7 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,28 mm Outer diameter insulation 1,3 mm Outer diameter of insulation 1,3 mm Outer diameter of insulation 1,3 mm Outer diameter of insulation 1,4 mm Outer diameter of insulation	Amount stranding	1
Cable weigth         36.3 g/m           Material jacket         PUR           Shore hardness jacket         58.1 g Shore D           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,7 mm           Toflerance outer diameter (shatet)         ± 5%           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter view insulation         1,25 mm           Outer diameter view insulation         1,25 mm           Impedient freeness wire insulation         1,4 3 Shore D           Ingredient freeness wire insulation         1,4 3 Shore D           Ingredient freeness wire insulation         1,4 3 Shore D           Ingredient freeness wire insulation         1,1 mm           Conductor year ingree wires         0,1 mm           Conductor year give wires         0,1 mm           Corrent load capacity yirin,	Stranding	4 wires twisted
Material jacket   PUR   Shore hardness jacket   S8 ± 3 Shore D   S8 ± 3 Shore D   S8 ± 3 Shore D	wire arrangement	brown, black, blue, white
Shore hardness jacket         58 ± 3 Shore D           Freedom from ingredients (jacket)         Lead-free, cadmium-free, CPC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter bisulation         1,25 mm           Outer diameter bisulation         1,25 mm           Outer diameter bisulation         74 ± 3 Shore D           Ingredient freeness wire insulation         125 mm           Outer diameter bisulation         74 ± 3 Shore D           Ingredient freeness wire insulation         126 mm           Library Shore bardness wire insulation         125 mm           Outer diameter bisulation         74 ± 3 Shore D           Ingredient freeness wire insulation         126 mm           Use of single wires         0,1 mm           Conductor of single wires         0,1 mm           Conductor type (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Conductor type (wire)         stranded conductor wire           Nominal voltage AC max.         300 V           Current load capacity frainander?         0 DIN DE 02	Cable weigth	36,3 g/m
Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         1,25 mm           Conductor of Single wires         0,1 mm           Conductor of Single wires         0,1 mm           Conductor Upse (wire)         \$tranded copper wire, bare           Conductor type (wire)         \$tranded copper wire, bare           Conductor type (wire)         \$tranded copper wire, bare           Current load capacity (standard)         to DIN VDE 0298.4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         60 Qkm @ 20 °C	Material jacket	PUR
Outer-diameter (jacket)         4,7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         ± 5 %           Shore hardness wire insulation         ± 5 %           Shore hardness wire insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crossection (wire)         0,34 mm²           Material conductor wire         Strand class 6           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 298-4           Current load capacity (standard)         to DIN VDE 298-4           Current load capacity (with wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         40 °C           Max. operating temperatu	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter blerance core insulation         ± 5 %           Shore hardness wire insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         42           Diameter of single wires         0,1 mm           Conductor (wire)         42           Diameter of single wires         0,1 mm           Conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Material conductor wire         Stranded copper wire, bare           Cornductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire wire)         2,5 kV ⊕ 60 s           Electrical resistance line constant wire         60 Ω/m @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV ⊕ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV ⊕ 60 s           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Operating temperature (fixed) <td>Freedom from ingredients (jacket)</td> <td>lead-free, cadmium-free, CFC-free, halogen-free, silicone-free</td>	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         194 ± 3 Shore D           Ingredient freeness wire insulation         194 ± 3 Shore D           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity stranderd         to DIN NOE 0298-4           Current load capacity wire, wire         4,8 A           Electrical resistance line constant wire         40 C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Max. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Op	Outer-diameter (jacket)	4,7 mm
Amount wires         4           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         2.5 %           Shore hardness wire insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, sillicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor of single wires         0,1 mm           Conductor to single wires         0,1 mm           Conductor to sessection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant vire         60 Ω/m @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - inclease)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (ince)         80 °C / 90 °C @ 10000 h Operation           Flame resistance         U. 1 (581 § 1900   IEC 60332-2.2	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         40 °C           Min. operating temperature (wire)         80 °C / 30 °C @ 10000 h Operation           Operating temperature min. (dynamic)         90 °C / 90 °C @ 10000 h Operation           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testi	Material wire insulation	PP
Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         42           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor (wire)         0.34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Conductor type (wire)         stranded copper wire, bare           Corrent load capacity (stlandard)         to DIN VDE 0298-4           Current load capacity (stlandard)         to DIN VDE 0298-4           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - included)         2,5 kV @ 60 s           Min. 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         U.1 1581 § 1090   IEC 60332-2-2   U.1 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related tes	Amount wires	4
Shore hardness wire insulation         74 ± 3 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (wire)         4,8 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Max. operating temperature (fixed)         80 °C / 90 °C @ 10000 h Operation           Max operating temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         25 °C           Operating temperature max. (dynamic)         80 °C / 90 °C @ 10000 h Operation           Saccing teresistance         Good, application-related testing           Good, application-related testing	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Cirrent load capacity (min. wire 4,8 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Welding spark resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending oycles (C-track) 5 m @ 25 °C   horizontal Traver sing distance (Crack) 3,3 m/s @ 25 °C No. of torsion cycles 1 t Mio. Torsion stress ± 360 °/m	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)         stranded copper wire, bare           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 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)         25 °C           Operating resistance         UL 1581 § 1090   IEC 60332-2-2   JUL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Welding spark resistance         Good, application-related t	Shore hardness wire insulation	74 ± 3 Shore D
Diameter of single wires         0,1 mm           Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         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 § 1990   EC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Welding spark resistance         DIN EN 60811-404   Good, application-related testing           Welding spark resistance         DIN EN 60811-404   Good, application-related testing           Bending ra	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire)         0,34 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         2,5 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (ix)         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 § 1090   EC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Welding spark resistance         Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)	Amount strands (wire)	42
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - include)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - wire)         2,5 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 § 1090   IEC 600322-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Welding spark resistance         Good, application-related testing           Welding spark resistance         Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending ra	Diameter of single wires	0,1 mm
Conductor type (wire) strand class 6  Nominal voltage AC max. 300 V  Current load capacity (standard) to DIN VDE 0298-4  Current load capacity min. wire 4,8 A  Electrical resistance line constant wire 60 Ω/km @ 20 °C  AC withstand voltage (wire - wire) 2,5 kV @ 60 s  Power frequency withstand voltage (wire - jacket) 40 °C  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) 25 °C  Operating temperature max. (dynamic) 40 °C 00 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance OIN EN 60811-404   Good, application-related testing  Welding spark resistance Good, application-related testing  Bending radius (fixed) 5 × Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traver sing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3.3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4.8 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2.5 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         -2.5 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)         -25 °C           Operating temperature max. (dynamic)         -25 °C           Chemical resistance         UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Welding spark resistance         Good, application-related testing           Welding spark resistance         Good, application-related testing           Bending radius (dynamic)         10 × Outer diameter           No. of bending cycles (C-track)         10 × Outer diameter           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Traversing distance (C-track) </td <td>Material conductor wire</td> <td>Stranded copper wire, bare</td>	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,8 A           Electrical resistance line constant wire         60 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         2,5 kV @ 60 s           Power frequency withstand voltage (wire - ack)         2,5 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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Welding spark resistance         DIN EN 60811-404   Good, application-related testing           Welding spark resistance         Good, application-related testing           Bending radius (fixed)         5 × Outer diameter           Bending radius (dynamic)         10 × Outer diameter           No. of bending cycles (C-track)         10 Mio. @ 25 °C           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Traversing distance (C-track)         5 Mio.	Conductor type (wire)	strand class 6
Current load capacity min. wire       4.8 A         Electrical resistance line constant wire       60 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2,5 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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Welding spark resistance       Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Travel speed (C-track)       3,3 m/s @ 25 °C         No. of torsion cycles       1 Mio.	Nominal voltage AC max.	300 V
Current load capacity min. wire       4.8 A         Electrical resistance line constant wire       60 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2,5 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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Welding spark resistance       Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Travel speed (C-track)       3,3 m/s @ 25 °C         No. of torsion cycles       1 Mio.	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance line constant wire       60 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       2,5 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 § 1909   IEC 60332-2-2   UL 1581 § 1100 FT2         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Welding spark resistance       Good, application-related testing         Bending radius (fixed)       5 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         No. of bending cycles (C-track)       5 m @ 25 °C   horizontal         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Travel speed (C-track)       3,3 m/s @ 25 °C         No. of torsion cycles       1 Mio.         Torsion stress       ± 360 °/m		4,8 A
Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  Max. operating temperature (fixed)  Moverating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Welding spark resistance  Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  1 Mio.  Torsion stress  ± 360 °/m	Electrical resistance line constant wire	60 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)  Min. operating temperature (static)  Max. operating temperature (fixed)  Moverating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Welding spark resistance  Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  1 Mio.  Torsion stress  ± 360 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
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 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Welding spark resistance Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Power frequency withstand voltage (wire -	2,5 kV @ 60 s
Operating temperature min. (dynamic)  -25 °C  Operating temperature max. (dynamic)  80 °C / 90 °C @ 10000 h Operation  Flame resistance  UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance  Good, application-related testing  Gasoline resistance  DIN EN 60811-404   Good, application-related testing  Welding spark resistance  Good, application-related testing  Welding spark resistance  Good, application-related testing  Bending radius (fixed)  5 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  10 Mio. @ 25 °C  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  1 Mio.  Torsion stress  ± 360 °/m	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation  Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Welding spark resistance Good, application-related testing  Welding spark resistance Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Welding spark resistance Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Operating temperature min. (dynamic)	-25 °C
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Welding spark resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Welding spark resistance Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
Oil resistance DIN EN 60811-404   Good, application-related testing  Welding spark resistance Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	chemical resistance	Good, application-related testing
Welding spark resistance Good, application-related testing  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Gasoline resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 10 Mio. @ 25 °C  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Welding spark resistance	Good, application-related testing
No. of bending cycles (C-track)  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Travel speed (C-track)  3,3 m/s @ 25 °C  No. of torsion cycles  1 Mio.  Torsion stress  ± 360 °/m	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track) 5 m @ 25 °C   horizontal  Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 3,3 m/s @ 25 °C  No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles 1 Mio.  Torsion stress ± 360 °/m	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Torsion stress ± 360 °/m	Travel speed (C-track)	3,3 m/s @ 25 °C
	No. of torsion cycles	1 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 360 °/m
	Torsion speed	35 cycles/min