

## M12 male 0° / M12 female 0° A-cod.

PUR AWG24+22 shielded vt UL/CSA+drag ch. 3.7m

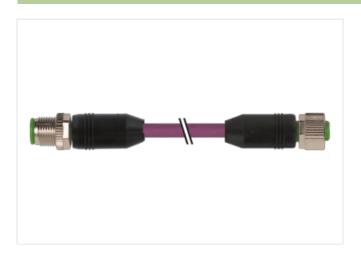
DeviceNet, CANopen Male straight – female straight M12 – M12, 5-pole A-coded shielded

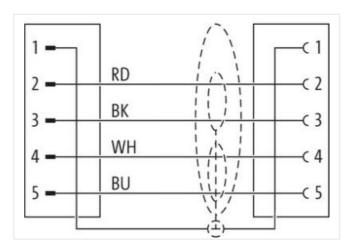
Plastic housings with good resistance against chemicals and oils.

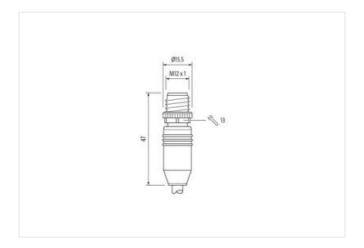
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

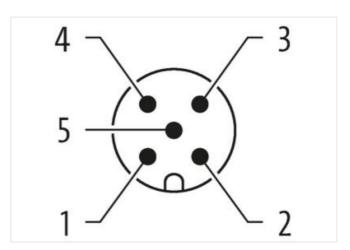
## **Link to Product**

## Illustration



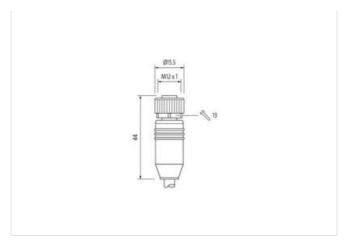


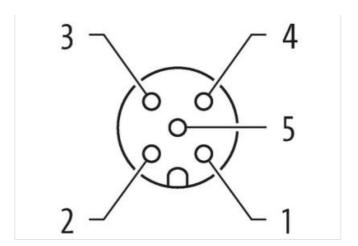






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Product may differ from Image



Cable length





3,7 m







Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Cable outlet	straight
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Cable outlet	straight
Coding	A
Material	PUR
Width across flats	SW13
Commercial data	
ECLASS-6.0	27279218
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	4048879288064



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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	··· <del>·</del>
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I,5 KV
	<u>'</u>
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Material gasket	FKM
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
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)
	Dirt Cit (1070-2-101 (10112)
Installation   Cable	
Cable identification	803
Jacket Color	violet
Type of Certificate	cURus
Amount stranding	1
Stranding  Amount stranding (type 2)	2 wires twisted
Amount stranding (type 2)	1 2 Stronglad joints twisted
Stranding (type 2) Cable shielding (type)	2 Stranded joints twisted copper braid, tinned
Cable shielding (type)  Cable shielding (coverage)	65 %
Banding (coverage)	Foil
Drain wire (cross-section)	22 AWG
wire arrangement	(white, blue), (black, red)
Cable weigth	(Write, blue), (black, red) 63,12 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free

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: 2024-05-16



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Material wire insulation         PE           Amount wires         2           Outer diameter insulation         2,1 mm           Outer diameter tolerance core insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         lead free, CFC-free, halogen-free           Amount strands (wire)         19           Diameter of single wires         24 AWG           Conductor cross-section (wire)         24 AWG           Diameter of single wires         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         copper stranded wire, tinned           Blectrical function wire         Data           Authority districts sublation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         2,5 %           Ingredient freeness were insulation (Data)         2,5 %           Diameter of Single wires (Data)         2           Amount strands wire (Data)         19           Diameter of Single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Data)         22 AWG <th>Outer-diameter (jacket)</th> <th>6,9 mm</th>	Outer-diameter (jacket)	6,9 mm
Amount wires         2           Outer diameter fuebrance core insulation         2,1 mm           Outer diameter foterance core insulation         4.5 %           Shore handress wire insulation         64.5 Shore D           Ingredient freeness wire insulation         lead-free, CPC-free, haloger-free           Amount atrands (vire)         19           Diameter of single viree         24 AWG           Conductor crossection (vire)         24 AWG           Drain wire (cross-section)         22 AWG           Metarial conductor wire         opper stranded wire, finned           Electrical function wire         Data           Electrical function wire         Data           Electrical function wire (vire)         1,5 mm           Tolerance outer diameter wire insulation (data)         1,5 mm           Tolerance outer diameter wire insulation (data)         1,5 mm           Tolerance outer diameter wire insulation (bata)         1,5 mm           Tolerance outer diameter wire insulation (bata)         1,5 mm           Tolerance outer diameter wire insulation (bata)         1,5 mm           Diameter of single wires (bata)         22 AWG           Conductor crosssection wire (bata)         22 AWG           Conductor crosssection wire (bata)         22 AWG           Conducto	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation	Material wire insulation	PE
Outer diameter folierance core insulation         ± 5 %           Showe hardness wie insulation         64 ± 5 Shore D           ingredient freeness wie insulation         lead-free, CFC-free, halogen-free           Amount strands (wive)         19           Diameter of aingle wires         24 AWG           Conductor crosssection (wive)         24 AWG           Drain wire (cross-section)         22 AWG           Milerial conductor wire         copper stranded wire, inned           Electrical function wire         Data           Merteral wire insulation (Data)         1,5 mm           Toloranzo outer diameter wire insulation (Data)         1,5 mm           Toloranzo outer diameter wire insulation (Data)         1,5 mm           Toloranzo outer diameter wire insulation (Pata)         1,5 mm           Toloranzo outer diameter wire insulation (Pata)         19           Permeter diameter wire (Pata)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Mermeter of single wires (Data)         22 AWG           Conductor vire (Data)         22 AWG           Mornitary (Cross)         6 mm           Nominal vortage AC max.         300 V           Current load capacity fetancery inm. wire	Amount wires	2
Shore hardness wire insulation         64 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (viroly)         19           Diameter of single wires         24 AWG           Ornal wire (cross-section)         22 AWG           Material conductor wire         coppore stranded wire, tinned           Electrical function wire         coppore stranded wire, tinned           Electrical function wire         coppore stranded wire, tinned           Electrical function wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1.5 mm           Toerance outer diameter wire insulation (Data)         1.5 mm           Ingredient freeness wire insulation (Data)         1.5 mm           Ingredient freeness wire insulation (Data)         1.5 mm           Amount viers (Data)         1.9           Diameter of single wires (Data)         2.2 AWG           Conductor crossaction wire (Data)         2.2 AWG           Electrical function wire (data)         2.2 AWG           Material conductor wire (Data)         2.2 AWG           Contractive and capacity (sendard)         1.0 IN VDE 0298-4           Current load capacity (sendard)         1.0 IN VDE 0298-4           Current load capacity (sendard)         1.0 IN	Outer diameter insulation	2,1 mm
Ingredient Ireoness wire insulation   lead free, CFC-free, halogen-free	Outer diameter tolerance core insulation	±5%
Diameter of single wines   24 AWG	Shore hardness wire insulation	64 ± 5 Shore D
Diameter of single wines   24 AWG	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Diameter of single wires         24 AWG           Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1.5 mm           Tolerance outer familier wire insulation (Data)         1.5 mm           Ingredient freeness wire insulation (Data)         1.5 mm           Tolerance outer familier wire insulation (Data)         1.6 mm           Ingredient freeness wire insulation (Data)         1.9           Ingredient freeness wire insulation (Data)         19           Diameter of single wires (Data)         2.9           Amount wires (Data)         19           Diameter of single wires (Data)         2.9 AWG           Confluctor crossection wire (Data)         2.0 power           Electrical function wire (Edata)         Power           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity (stindardard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)		
Conductor crosssection (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Toterance outer diameter wire insulation (Data)         1,5 mm           Toterance outer diameter wire insulation (Data)         2           Amount strands wire (Data)         2           Diameter of single wires (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Control or or crosssection wire (Data)         22 AWG           Control or or crosssection wire (Data)         22 AWG           Control control or wire (Data)         22 AWG           Traversing distance (C-track)         5 m           Nominal vollage AC max.         300 V           Current load capacity min. wire         4.5 A           Current load capacity min. wire         4.5 A           Current load capacity min. wire (Data)         6 A           Electrical function wire (Data)         Power	,	24 AWG
Drain wire (cross-section)         22 AWG           Material conductor wire         copper stranded wire, tinned           Educrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Toferance outer diameter wire insulation (Data)         1,5 mm           Ingredient freeness wire insulation (Data)         1 83 %           Ingredient freeness wire insulation (Data)         1 84 McV           Amount wires (Data)         2           Diameter of single wires (Data)         2 2 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Data)         20 WG           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Current load capacity min. Wire (Data)         6 A           Electrical resistance line constant wire         78 Ω/km		
Material conductor wire         copper stranded wire, timed           Electrical function wire         Data           Material wire insulation (Data)         PE           Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (Data)         1,5 mm           Impedient freeness wire insulation (Data)         28 Mmount strands wire (Data)           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor wire (Data)         22 AWG           Conductor wire (Data)         20 Power           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity min. wire         45 A           Current load capacity min. wire         45 A           Current load capacity min. wire (Data)         6 A           Electrical function wire (Data)         6 A           Electrical resistance wire constant wire         78 Okm           Electrical situation wire (data)         Power           Characteristic impedance         120 Ω± 10 % @ 1 MHz           Electrical function wire (Data)         40 Okm           AC withstand voltage (wire - wire)         24 V@ 60	<u> </u>	
Data	<u>'</u>	
Material wire insulation (Data)         PE           Outer diameter wire insulation (data)         1,5 mm           Tolerance outer diameter wire insulation (data)         ± 53 %           Ingredient freeness wire insulation (Data)         lead-free, CFC-free, halogen-free           Amount wires (Data)         2           Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Conductor vire (Data)         20 copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity strandard         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % ⊕ 1 MHz           Electrical resistance line constant wire         78 Ω/m           Electrical resistance oading wire (Data)         54 Ω/m           AC withstand voltage (wire - wire)         2 k V ⊕ 60 s           Min. opera		
Outer diameter wire insulation (Data)         1,5 mm           Tolerance outer diameter wire insulation (data)         ± 53 %           Ingredient reeness wire insulation (Data)         2           Amount wires (Data)         19           Diameter of single wires (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Nominal voltage AC max         300 V           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical since income wire (data)         Power           Characteristic impedance         120 Ω± 10 % @ 1 MHz           Electrical sesistance line constant wire         78 Ω/m           Electrical capacitance coating wire wire         2 k W @ 60 s           Electrical resistance coating wire wire         2 k W @ 60 s           Electrical resistance coating wire wire         40 0 C           Max. opera		
Tolerance outer diameter wire insulation (data) ± 53 % ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free  Amount wires (Data) 2  Amount strands wire (Data) 19  Diameter of single wires (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Conductor crosssection wire (Data) 22 AWG  Conductor wire (Data) 25 AWG  Conductor wire (Data) 26 AWG  Current load capacity min. wire 25 AS AWG  Current load capacity win. wire 25 AS AWG  Current load capacity min. wire 25 AS AWG  Characteristic impedance 25 AWG  Characteristic min. (Aymanic) 35 AWG  Corrent load capacity min. Wire (Data ay AWG  Characteristic min. (Aymanic) 30 AWG  Corrent load capacity min. Wire (Data ay AWG  Characteristic min. (Aymanic) 30 AWG  Co		
Ingredient freeness wire insulation (Data)   lead-free, CFC-free, halogen-free	· ,	7-
Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 25 m Mominal voltage AC max. 300 V  Current load capacity (Islandard) 10 DIN VDE 0298-4  Current load capacity min. wire 4,5 A  Current load capacity min. wire 04,5 A  Electrical function wire (Data) 6 A  Electrical function wire (Data) 70 m  Electrical function wire (Data) 70 m  Electrical function wire (Data) 70 m  Electrical resistance coating wire (Data) 54 Ω/km  AC withstand voltage (wire - shield) 54 Ω/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV @ 60 s  Electric emperature (static) 40 °C  Operating temperature (static) 70 °C  Perating temperature min. (dynamic) 70 °C  Operating temperature max. (dynamic) 70 °C  Perating temperature max. (dynamic) 70 °C  Concepting a Coulon of the control of the co	,	
Amount strands wire (Data)         19           Diameter of single wires (Data)         22 AWG           Conductor crossection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 0 ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance line constant wire         78 Ω/km           Electrical resistance line constant wire         2 kV @ 60 s           Electrica paccitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Electrical pemperature (fixed)         80 °C           Operating temperature min. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   EC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing	·	
Diameter of single wires (Data)         22 AWG           Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity min. wire         4,5 A           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance inconstant wire         78 D/km           Electrical resistance coating wire (Data)         54 D/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Electrica capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature min. (dynamic)         30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing	· · ·	
Conductor crosssection wire (Data)         22 AWG           Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         6 A           Electrical function wire (ada)         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature min. (dynamic)         -30 °C           Operating temperature min. (dynamic)         -30 °C           Poperating temperature min. (dynamic)         -30 °C           Charm cresistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related te		
Material conductor wire (Data)         copper stranded wire, tinned           Electrical function wire (data)         Power           Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance ine constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Bending radius (installation)         x Oute		
Electrical function wire (data)	<u> </u>	
Traversing distance (C-track)         5 m           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical resistance time constant wire         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (stited)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   EC 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, a	. ,	
Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           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)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gli resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)	· · ·	
Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4,5 A           Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electric capacitance         40000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Blectric capacitance         40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         U. L 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 (installation)	<u> </u>	
Current load capacity min. wire 4.5 A  Current load capacity min. Wire (Data) 6 A  Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance 120 $\Omega \pm 10 \% 0$ 1 MHz  Electrical resistance line constant wire 78 $\Omega$ /km  Electrical resistance coating wire (Data) 54 $\Omega$ /km  AC withstand voltage (wire - wire) 2 kV $\emptyset$ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV $\emptyset$ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV $\emptyset$ 60 s  Electric capacitance 40000 pF/km  AC withstand voltage (wire - shield) 2 kV $\emptyset$ 60 s  Electric perature (Istatic) 40 °C  Max. operating temperature (Istatic) 40 °C  Max. operating temperature (Istatic) 30 °C  Operating temperature min. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (sinstallation) 6 × Outer diameter  Bending radius (dynamic) 10 × Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		300 V
Current load capacity min. Wire (Data)         6 A           Electrical function wire         Data           Electrical function wire (data)         Power           Characteristic impedance         120 Ω ± 10 % @ 1 MHz           Electrical resistance line constant wire         78 Ω/km           Electrical resistance coating wire (Data)         54 Ω/km           AC withstand voltage (wire - wire)         2 kV @ 60 s           Electrical capacitance         40000 pF/km           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)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gasoline resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         1 Mic.           No. of torsion cycles	Current load capacity (standard)	to DIN VDE 0298-4
Electrical function wire Data  Electrical function wire (data) Power  Characteristic impedance $120 \Omega \pm 10 \% @ 1 \text{ MHz}$ Electrical resistance line constant wire $78 \Omega \text{/km}$ Electrical resistance coating wire (Data) $54 \Omega \text{/km}$ AC withstand voltage (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV } @ 60 \text{ s}$ Electric graph representating (Estatic) $40 \text{ °C}$ Max. operating temperature (static) $40 \text{ °C}$ Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic) $30 \text{ °C}$ Operating temperature max. (dynamic) $70 \text{ °C}$ Flame resistance $10 \text{ List } 100 \text{ FT2}   \text{IEC } 60332 \cdot 2 \cdot 2   \text{ UL } 1581 \$ 1090$ chemical resistance $10 \text{ Good, application-related testing}$ Oil resistance $10 \text{ NN E } 600 \text{ application-related testing}$ Bending radius (installation) $10 \text{ c Outer diameter}}$ Bending radius (fixed) $10 \text{ c Outer diameter}}$ Bending radius (fixed) $10 \text{ c Outer diameter}}$ Bending radius (dynamic) $10 \text{ c Outer diameter}}$ Travel speed (C-track) $1 \text{ Mio.}$ No. of torsion cycles $2 \text{ Mio.}$ Torsion stress $2 \text{ Mio.}$	Current load capacity min. wire	4,5 A
Electrical function wire (data)         Power           Characteristic impedance $120 Ω ± 10 % @ 1 MHz$ Electrical resistance line constant wire $78 Ω/km$ Electrical resistance coating wire (Data) $54 Ω/km$ AC withstand voltage (wire - wire) $2 kV @ 60 s$ Electric capacitance $40000 pF/km$ 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) $-30 ° C$ Operating temperature max. (dynamic) $70 ° C$ Flame resistance         UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           chemical resistance         Good, application-related testing           0il resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         6 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Travel speed (C-track)         1 Mio.           No. of torsion cycles         2 Mio.           Torsion stress </td <td>Current load capacity min. Wire (Data)</td> <td>6 A</td>	Current load capacity min. Wire (Data)	6 A
Characteristic impedance $120 \Omega \pm 10 \% @ 1  \text{MHz}$ Electrical resistance line constant wire $78  \Omega / \text{km}$ Electrical resistance coating wire (Data) $54  \Omega / \text{km}$ AC withstand voltage (wire - wire) $2  \text{kV} @ 60  \text{s}$ Electric capacitance $40000  \text{pF/km}$ AC withstand voltage (wire - shield) $2  \text{kV} @ 60  \text{s}$ Electric capacitance $40000  \text{pF/km}$ AC withstand voltage (wire - shield) $2  \text{kV} @ 60  \text{s}$ Min. operating temperature (static) $40  ^{\circ} \text{C}$ Max. operating temperature (fixed) $80  ^{\circ} \text{C}$ Operating temperature min. (dynamic) $30  ^{\circ} \text{C}$ Operating temperature max. (dynamic) $70  ^{\circ} \text{C}$ Flame resistance $10  \text{LI}  1581  \$  1100  \text{FT2}                     $	Electrical function wire	Data
Electrical resistance line constant wire 78 $\Omega$ /km  Electrical resistance coating wire (Data) 54 $\Omega$ /km  AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  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) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress $\pm$ 30 °/m	Electrical function wire (data)	Power
Electrical resistance coating wire (Data)       54 Ω/km         AC withstand voltage (wire - wire)       2 kV @ 60 s         Electric capacitance       40000 pF/km         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)       -30 °C         Operating temperature max. (dynamic)       70 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       DIN EN 60811-404   Good, application-related testing         Bending radius (installation)       x Outer diameter         Bending radius (fixed)       6 x Outer diameter         Bending radius (dynamic)       10 x Outer diameter         Travel speed (C-track)       1 Mio.         No. of torsion cycles       2 Mio.         Torsion stress       ± 30 °/m	Characteristic impedance	120 Ω ± 10 % @ 1 MHz
AC withstand voltage (wire - wire) 2 kV @ 60 s  Electric capacitance 40000 pF/km  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) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Electrical resistance line constant wire	78 Ω/km
Electric capacitance 40000 pF/km  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) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - shield)  Alin. operating temperature (static)  Alin. operating temperature (static)  Alin. operating temperature (fixed)  Alin. operating temperature min. (dynamic)  -30 °C  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  6 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  1 Mio.  No. of torsion cycles  2 Mio.  Torsion stress  ± 30 °/m	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m	Electric capacitance	40000 pF/km
Max. operating temperature (fixed)  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Operating temperature max. (dynamic)  Oo °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  Oond, application-related testing  Oil resistance  DIN EN 60811-404   Good, application-related testing  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  6 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  1 Mio.  No. of torsion cycles  2 Mio.  Torsion stress  ± 30 °/m	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic) -30 °C  Operating temperature max. (dynamic) 70 °C  Flame resistance UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ±30 °/m	Min. operating temperature (static)	-40 °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 (installation)  x Outer diameter  Bending radius (fixed)  6 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  1 Mio.  No. of torsion cycles  ± 30 °/m	Max. operating temperature (fixed)	80 °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 (installation)  x Outer diameter  Bending radius (fixed)  6 x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  Travel speed (C-track)  1 Mio.  No. of torsion cycles  ± 30 °/m	Operating temperature min. (dynamic)	-30 °C
Flame resistance Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  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 (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m		
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404   Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m		
Oil resistance DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
Bending radius (fixed) 6 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
Bending radius (dynamic) 10 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion cycles 2 Mio.  Torsion stress ± 30 °/m		
Travel speed (C-track) 1 Mio.  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		
	I orsion speed	35 cycles/min