

## M12 female recept. A-cod. rear

PUR AWG24+22 shielded vt UL/CSA+drag ch. 3m

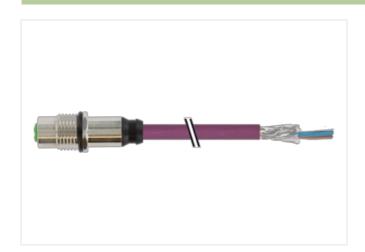
DeviceNet, CANopen
Flange female
M12, 5-pole
Rear mounting
without cable sleeves

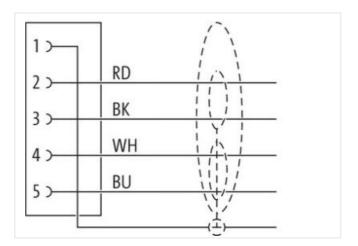
Further cable lengths on request.

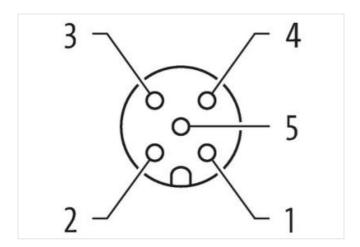
The resistance to aggressive media should be individually tested for your application. Further details on request.

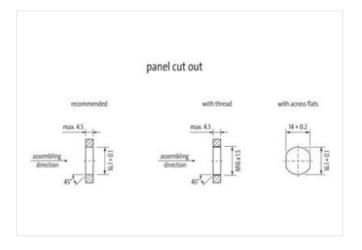
## **Link to Product**

## Illustration



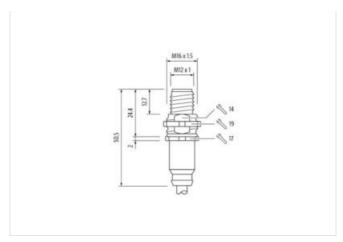








stay connected



Product may differ from Image











Cable length	3 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	Brass
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Side 2	
Stripping length (jacket)	20 mm
Commercial data	
ECLASS-6.0	27279220
ECLASS-6.1	27279220
ECLASS-7.0	27440103
ECLASS-8.0	27440103
ECLASS-9.0	27440103
ECLASS-10.1	27440103
ECLASS-11.1	27440103
ECLASS-12.0	27440103
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879578264
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Current operating per contact max.	4 A
Installation   Connection	

Installation | Connection

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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Stripping length (jacket)	20 mm
Mounting set	M16 x 1.5
Width across flats	SW19
Device protection   Electrical	
Protection NEMA	3, 4, 6P
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	l .
Mechanical data   Material data	
Coating housing	nickel plated
Coating locking	nickel plated
Coating of fitting	nickel plated
Locking material	Brass
Material screw connection	Brass
Mechanical data   Mounting data	
Mounting method	Schraubgewinde
Looking techniques	Schraubgewinde
Environmental characteristics   Climatic	
·	05.00
Operating temperature min.	-25 °C 85 °C
Operating temperature max.  Additional condition temperature range	depending on cable quality
	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Approvals	
UL 50E	yes
Installation   Cable	
Cable identification	803
Jacket Color	violet
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	2 Stranded joints twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
Banding  Drain wire (erose section)	Foil
Drain wire (cross-section)	22 AWG
wire arrangement	(white, blue), (black, red)
Cable weigth	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
Freedom from ingredients (jacket) Outer-diameter (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 6,9 mm
	·
Outer-diameter (jacket)	6,9 mm



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Outer diameter loterance core insulation         ± 6 %           Shore hardness wire insulation         8 4 ± 5 Shore D           Ingredient feeness wire insulation         lead-free, CFC-free, halogen-free           Amount strands (wire)         19           Binameter of single wires         24 AWG           Conductor crosseddin (wire)         24 AWG           Drain wire (cross-section)         22 AWG           Material Conductor wire         Data           Electrical function wire         Data           Material wire insulation (Data)         FE           Outer diameter were insulation (Data)         1.5 mm           Tolerance outer diameter wire insulation (Data)         1.5 mm           Tolerance outer diameter wire insulation (Data)         1.6 mm           Amount wires (Data)         19           Diameter of single wires (Qata)         2.2 AWG           Dameter of single wires (Qata)         2.2 AWG           Material conductor wire (Data)         2.2 AWG           Corrent Load capacity first wire         4.5 A           Current Load capacity first wire         4.5 A	Outer diameter insulation	2.1 mm
Shore hardness wive insulation		·
Ingredient freeness wire insulation Amount stands (Wre) 19 Identifier of single wires 24 AWG Conductor crosssection (wire) 24 AWG Conductor crosssection (wire) 24 AWG Material conductor wire Copper stranded wire, linned Electrical function wire Material conductor wire Data Material conductor wire Data Material conductor wire Data Material wire (research function wire Material wire insulation (Data) PE Outer diameter wire insulation (Data) 1.5 mm Ingredient freeness wire (Data) 2.2 AWG Conductor crosssection wire (Data) 1.5 mm Ingredient freeness wire insulation (Data) 1.5 mm Ingredient freeness wire (Data) 1.5 mm Ingre		
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Diameter of single wires		
Drain wire (cross-section (wire)   24 AWG	. , ,	
Drain wire (cross-section)   22 AWG		
Material conductor wire	. ,	
Electrical function wire Data  Material wire insulation (Data) PE  Outer diameter wire insulation (Data) 1,5 mm  Tolerance outer diameter wire insulation (Data) ± 53 % Ingredient Heeness wire insulation (Data) = 1,5 mm  Tolerance outer diameter wire insulation (Data) = 1,5 mm  Tolerance outer diameter wire insulation (Data) = 1,5 mm  Amount wire (Data) = 2  Amount wire (Data) = 2  Amount strands were (Data) = 19  Diameter of single wires (Data) = 22 AWG  Conductor orsessection wire (Data) = 22 AWG  Material conductor wire (Data) = 22 AWG  Material conductor wire (Data) = 22 AWG  Material conductor wire (Data) = 25 AWG  Material conductor wire wire wire wire wire wire wire wir		
Material wire insulation (Data)   FE		
Outer diameter wire insulation (Data)		
Tolerance outer diameter wire insulation (data) ± 53 % lagradient 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 crossection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material 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 (data) Power Characteristic impedance 120 Ω± 10 % @ 1 MHz Electrical function wire (Data) 54 Ω/km AC withstance coating wire (Data) 54 Ω/km AC withstand voltage (wire - wrie) 2 kV @ 60 s Electrical resistance (Standard) 2 kV @ 60 s Min. operating temperature (State) 40 °C Max. operating temperature (State) 40 °C Max. operating temperature (State) 40 °C Max. operating temperature (State) 40 °C Gerating temperature min. (dynamic) 70 °C Flame resistance DIN EN 60811-404 (Good, application-related testing Gasoline resistance DIN EN 60811-404 (Good, application-related testing Gending radius (fixed) 6 × Outer diameter Bending radius (fixed) 10 × Outer diameter Bending radius (fixed) 10 × Outer diameter Travel speed (C-track) 1 Min. Torsion stress ± 30 °/m		
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   Amother of single wires (Data)   22 AWG   Material conductor wire (Data)   24 AWG   Material conductor wire (Data)   25 AWG   Material conductor wire (Data)   25 AWG   Morniant voltage AC max.   300 V   Current load capacity (standard)   10 IN VDE 0298-4   Current load capacity min. wire   4,5 A   Current load capacity min. wire   45 A   Current load capacity min. wire   24 A   Electrical function wire (data)   24 A   Electrical function wire (data)   24 A   Electrical function wire (data)   25 A   Electrical resistance coating wire (Data)   54 Q/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 (ixed)   20 C   Max. operating temperature (ixed)   80 °C   Operating temperature (ixed)   30 °C   Operating temperature (ixed)   30 °C   Operating temperature (ixed)   30 °C   Operating temperature max. (dynamic)   70 °C   Flame resistance   Good, application-related testing   Gasoline resistance   DIN EN 60811-404   Good, application-related testing   Bending radius (installation)   x Outer diameter   Bending radius (installation)   x Outer diameter   Bending radius (fixed)   6 x Outer diameter   Bending radius (dynamic)   10 x Outer diameter   Bending radius (dynamic)   10 x Outer diameter   Ending radius (dynamic)   10 x Outer diameter   Ending radius (fixed)   2 Min.   Toxion stress   2 Min.	·	·
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 Nominal voltage AC max. 300 V Current load capacity (Standard) 10 DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire 04,5 A Electrical function wire 10 Data Electrical function wire 24 Data Electrical function wire 34 Data Electrical function wire 45 Data Electrical function wire (Data) 40 Mm Electrical resistance constant wire 78 Ω/km Electrical resistance containt wire 78 Ω/km AC withstand voltage (wire - wire) 2 k V @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - wire) 2 k V @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - wire) 2 k V @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (static) 80 °C Operating temperature min. (dynamic) 70 °C Elevanting temperature min. (dynamic) 70 °C Coperating temperature max. (dynamic) 70 °C Coperating temperature max. (dynamic) 70 °C Coperating temperature max. (dynamic) 70 °C Flame 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 (fixed) 6 x Outer diameter Ending radius (fixed) 10 x Outer diameter		
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)         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 apsitance         400000 pF/km           AC withstand voltage (wire - shield)         2 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature (fixed)         80 °C           Operating temperature (mixed)         70 °C           Flame resistance         Good, appl		
Diameter of single wires (Data)   22 AWG   Conductor crosssection wire (Data)   22 AWG   Material conductor 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   Electrical function wire (data)   Power   Electrical function wire (data)   Power   Characteristic impedance   120 Ω ± 10 % @ 1 MHz   Electrical function wire (data)   Power   Electrical resistance coating wire (Data)   54 Ω/km   Electrical resistance coating wire (Data)   54 Ω/km   Electrical resistance coating wire (Data)   54 Ω/km   Electrical process with the complex of the		
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 (data)         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)         70 °C           Plame 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, ap		
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 (data)         Power           Current load capacity min. Wire (Data)         6 A           Electrical function wire (data)         Power           Characteristic impedance         120 0± 10 % @ 1 MHz           Electrical resistance cine constant wire         78 Ω/km           Electrical resistance constant wire         78 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)         70 °C           Flame resistance         U. 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing<		
Electrical function wire (data)		
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 loang wire (Data)   54 Ω/km     AC withstand voltage (wire - wire)   2 kV @ 60 s     Electrica capacitance   40000 pF/km     AC withstand voltage (wire - shield)   2 kV @ 60 s     Electrical pemperature (sixed)   80 °C     Operating temperature (sixed)   80 °C     Operating temperature (sixed)   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   God, application-related testing     Bending radius (fixed)   6 × Outer diameter     Bending radius (fixed)   6 × Outer diameter     Bending radius (gynamic)   10 × Outer diameter		
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 (static)         -40 °C           Max. operating temperature min. (dynamic)         -30 °C           Operating temperature max. (dynamic)         70 °C           Flame resistance         UL 1581 § 1100 FT2   IEC 60332-22   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) </td <td>, ,</td> <td>5 m</td>	, ,	5 m
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           Oil resistance         DIN EN 60811-404   Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed) <td></td> <td></td>		
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         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		
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           Gil 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)		
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 capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Min. 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 UL $1581 \S 1100 \text{ FT2}   \text{ IEC } 60332-2-2   \text{ UL } 1581 \S 1090$ 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) $6 \times \text{ Outer diameter}$ Bending radius (dynamic) $10 \times \text{ Outer diameter}$ Travel speed (C-track) $1 \text{ Mio.}$ No. of torsion cycles $2 \text{ Mio.}$ Torsion stress $\pm 30 \text{ °/m}$		
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 capacity emperature (static) $40 \text{ °C}$ 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 $0 \text{ UL } 1581 \S 1100 \text{ FT2}   \text{ IEC } 60332-2-2   \text{ UL } 1581 \S 1090$ chemical resistance $0 \text{ Good, application-related testing}$ Gasoline resistance $0 \text{ Good, application-related testing}$ Bending radius (installation) $0 \text{ NC} \text{ NC} \text{ NC} \text{ Commeter}$ Bending radius (fixed) $0 \text{ GC} \text{ NC} \text{ Courter diameter}$ Bending radius (dynamic) $0 \text{ In NC} \text{ Courter diameter}$ Bending radius (dynamic) $0 \text{ In NC} \text{ Courter diameter}$ Travel speed (C-track) $0 \text{ In Mio}$ .  No. of torsion cycles $0 \text{ Mio}$ .		
Characteristic impedance $120 \Omega \pm 10 \% \oplus 1  \text{MHz}$ Electrical resistance line constant wire $78 \Omega / \text{km}$ Electrical resistance coating wire (Data) $54 \Omega / \text{km}$ AC withstand voltage (wire - wire) $2 \text{ kV} \oplus 60 \text{ s}$ Electric capacitance $40000 \text{ pF/km}$ AC withstand voltage (wire - shield) $2 \text{ kV} \oplus 60 \text{ s}$ Min. operating temperature (static)       -40 °C         Max. operating temperature (fixed) $80 \text{ °C}$ Operating temperature min. (dynamic)       -30 °C         Operating temperature max. (dynamic) $70 \text{ °C}$ 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 $\pm 30 \text{ °/m}$		
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 DIN EN 60811-404   Good, application-related testing  Bending radius (installation) x Outer diameter  Bending radius (fixed) 6 x Outer diameter  Travel speed (C-track) 1 Mio.  No. of torsion stress ± 30 °/m		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)  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	·	
AC withstand voltage (wire - wire)  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)  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  ± 30 °/m	Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - shield)  Ac withstand voltage (wire - shield)  Min. operating temperature (static)  Au °C  Max. operating temperature (fixed)  Bo °C  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  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		2 kV @ 60 s
AC withstand voltage (wire - shield)  Ac withstand voltage (wire - shield)  Min. operating temperature (static)  Au °C  Max. operating temperature (fixed)  Bo °C  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  To °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  Chemical resistance  Good, application-related testing  Gasoline resistance  Good, application-related testing  Oil resistance  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	Electric capacitance	40000 pF/km
Min. operating temperature (static)  Max. operating temperature (fixed)  80 °C  Operating temperature min. (dynamic)  Operating temperature max. (dynamic)  70 °C  Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical resistance  Good, application-related testing  Gasoline resistance  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)	
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 ± 30 °/m	Min. operating temperature (static)	
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  DIN EN 60811-404   Good, application-related testing  Bending radius (installation)  x Outer diameter  Bending radius (fixed)  Bending radius (dynamic)  Travel speed (C-track)  No. of torsion cycles  ± 30 °/m		80 °C
Flame resistance  UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090  chemical 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)  Travel speed (C-track)  1 Mio.  No. of torsion cycles  ± 30 °/m	Operating temperature min. (dynamic)	-30 °C
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	Operating temperature max. (dynamic)	70 °C
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	Flame 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	chemical resistance	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
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 (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
Travel speed (C-track)         1 Mio.           No. of torsion cycles         2 Mio.           Torsion stress         ± 30 °/m	Bending radius (fixed)	6 x Outer diameter
No. of torsion cycles2 Mio.Torsion stress± 30 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 30 °/m	Travel speed (C-track)	1 Mio.
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 30 °/m
	Torsion speed	35 cycles/min