

M12 male 0° / M12 female 0° A-cod.

PUR AWG24+22 shielded vt UL/CSA+drag ch. 0.21m

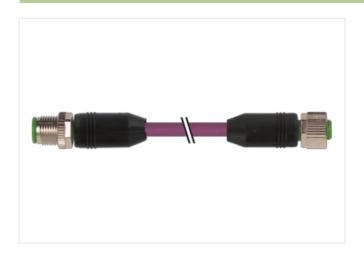
DeviceNet, CANopen Male straight – female straight M12 – M12, 5-pole A-coded shielded

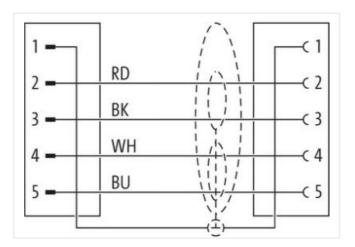
Plastic housings with good resistance against chemicals and oils.

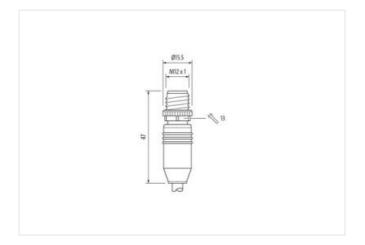
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

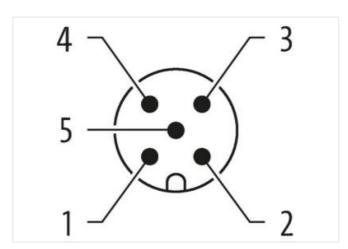
Link to Product

Illustration



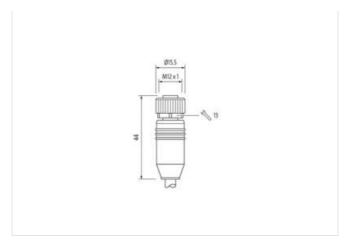


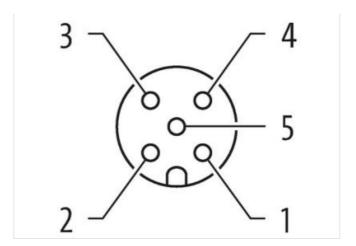






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Product may differ from Image



Cable length





0,21 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	4048879496018



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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	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	130 KV
,	
Mechanical data	94
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)
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	Foil
Drain wire (cross-section)	22 AWG
wire arrangement	(white, blue), (black, red)
Traversing distance (C-track)	5 m
Cable weigth	63,12 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A

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: 2024-05-06



Content Cont	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material view insulation PE Amount viries 2 Amount viries 2 Amount viries 2 Amount viries 2 Amount viries 3 4 5 5 5 5 5 5 5 6 Amount viries 4 Amount viries 5 Amount viries 4 Amount viries 4 Amount viries 5 Amount viries 4 Amount viries 5 Amount viries 4 Amount viries 4 Amount viries 5 Amount viries 6 Amount viries 7 Amount viries 6 Amount viries 7 Amount vir	Outer-diameter (jacket)	6,9 mm
Amount wires 2	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 2,1 mm Outer diameter tolerance core insulation 5 ± 5 % Shore hardness were insulation 6 ± 2 Shore D Ingredient freeness were insulation 1 each free, CFC free, hatogen-free Ingredient freeness were insulation 1 each free, CFC free, hatogen-free Ingredient freeness were insulation 1 each free, CFC free, hatogen-free Conductor crosssection (wire) 24 AWG Conductor crosssection (wire) 24 AWG Conductor crosssection (wire) 24 AWG Material conductor were copper stranded wire, tinned Delate Celebrated Intention were Data Electrical function were Data Material were insulation (Data) PE Material were insulation (Data) PE Ingredient freeness were insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 1, 5 mm Tolerance cute frameter wire insulation (Data) 2 Amount wire (Data) 19 Diameter of inglie wires (Data) 2 Amount wires (Data) 19 Diameter of inglie wires (Data) 2 Amount strands wire (Data) 19 Diameter of inglie wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Controllation doubles wires (Data) 22 AWG Current load capacity (internity wires (Data) 22 AWG Current load capacity (internity wires (Data) 23 AWG Current load capacity (internity wires (Data) 24 AWG Current load capacity internity wires (Data) 3 AWG Data Current load capacity internity wires (Data) 40 AWG Current load capacity internity wires (Data) 40 AWG Current load capacity internity wires (Data) 40 AWG Current load capacity wires (Pata) 40 AWG Current load capacity wires (Pata) 40 AWG Current load capacity wires (Pata)	Material wire insulation	PE
Outer dameter tolerance core insulation ± 5 % Shore hardness were insulation 8 4 ± 5 Shore D Ingredient Teasons were insulation lead fee, CFC free, halogen-free Amount strands (wice) 19 Diameter of single wires 24 AWG Conductor cross-section (wire) 22 AWG Drain wire (cross-section) 22 AWG Material wire (cross-section) 22 AWG Material wire insulation (wire) Data Meterial wire insulation (Data) 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 (Data) 1,6 mm Impredient freeness wire insulation (Data) 1,8 mm Tolerance swire (Data) 19 Amount wires (Data) 2 Amount wires (Data) 2.2 AWG Conductor crossection wire (Data) 2.2 AWG Conductor wire (Data) 2.2 AWG Conductor wire (Data) 2.2 AWG Conductor wire (Data) 2.0 MWG Normial votage (Armac 3.00 V C	Amount wires	2
Shore hardness wire insulation 64 ± 5 Shore D Ingredient freeness wire insulation 10 Ingredient or single wires 24 AWG Drain wire (cross section) 22 AWG Material conductor wire Data Material conductor wire Data Material vire insulation (Data) PE Quier dameter wire insulation (Data) 15 mm Tolerance outer diameter wire insulation (bata) 15 mm Tolerance outer diameter wire insulation (bata) 16 Ingredient freeness wire insulation 17 Ingredient freeness wire insulation 18 Ingredient freeness wire insulation 19 Ingredient freeness wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 23 AWG Conductor crosssection wire (Data) 24 AWG Conductor crosssection wire (Data) 25 AWG Conductor crosssection wire (Data) 26 AWG Conductor crosssection wire (Data) 27 AWG Conductor crosssection wire (Data) 28 AWG Conductor crosssection wire (Data) 29 AWG Conductor crosssection wire (Data) 20 Dit VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity (insurance) Current load capacity min. wire 4,5 A Current load capacity min. wire 5 A Current load capacity min. wire 6 A Current load capacity min. wire 7 A CWR Cu	Outer diameter insulation	2,1 mm
Ingradient freeness wire insulation lead-free, CFC-free, halogen-free	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 19	Shore hardness wire insulation	64 ± 5 Shore D
Diameter of single wires	Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Conductor crossection (wire)	Amount strands (wire)	19
Drain wire (cross-section) 22 AWG Material conductor wire copper stranded wire, linned Electrical function wire Data Material wire insulation (Data) PE Outer diameter wire insuliation (Data) 1,5 mm Tolerance outer diameter wire insuliation (data) 25 % Ingredient freeness wire insulation (Data) 1,5 mm Tolerance outer diameter wire insuliation (data) 25 % Ingredient freeness wire insulation (Data) 19 (Dat	Diameter of single wires	24 AWG
Material conductor wire	Conductor crosssection (wire)	24 AWG
Electrical function wire Data Material vive insulation (Data) PE Outer diametre wire insulation (Data) 1.5 mm Tolerance outer diameter wire insulation (Data) 1.5 mm Amount wires (Data) 2 Amount strands wire (Data) 2.2 AWG Dameter of single wires (Data) 2.2 AWG Conductor oressection wire (Data) 2.2 AWG Material conductor wire (Data) 2.2 AWG Moninal voltage AC max. 300 V Current load capacity (standard) 1.5 DIN VDE 0298-4 Current load capacity (standard) 1.5 DIN VDE 0298-4 Current load capacity min. wire 4.5 A Electrical function wire (Data) 6 A Electrical function wire (Data) 54 Ω/km Electrical resistance line constant wire 78 Ω/km Electrical resistance ouing wire (Data) 54 Ω/km AC withstand voltage (wire - shield) 2 kW @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kW @ 60 s Hint, operating temperature (static) 40 °C Max. operating temperature (static) 70 °C Flame resistance Good, application-related testing Oil resistance Good, application-related testing Din Endering radius (installation) x Outer diameter Bending radius (installation) 10 x Outer diameter Bending radius (installation) 10 x Outer diameter Bending radius (installation) 10 x Outer diameter Fravel speed (C-track) 1 Mic. Torsion stress 2 Mic.	Drain wire (cross-section)	22 AWG
Material wire insulation (Data) PE	Material conductor wire	copper stranded wire, tinned
Outer diameter wire insulation (Data)	Electrical function wire	Data
Tolerance outer diameter wire insulation (data) ± 53 % Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free	Material wire insulation (Data)	PE
Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free	Outer diameter wire insulation (Data)	1,5 mm
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) 23 AWG Material conductor wire (Data) 24 AWG Material conductor wire (Data) 25 AWG Material function wire (Data) 25 AWG Material function wire (Data) 25 AWG Material data capacity (standard) 25 AWG Material data capacity (standard) 26 AWG Material function wire 24,5 AWG Material function wire (Data) 26 AWG Material function wire (Data) 26 AWG Material function wire (Data) 26 AWG Material function wire (Data) 27 AWG Material function wire (Data) 28 AWG Material function wire (Data) 28 AWG Material function wire (Data) 34 AWG Material funct	Tolerance outer diameter wire insulation (data)	± 53 %
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 Nominal voltage AC max. 300 V Current load capacity rim, 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 coating wire (Data) 54 Ω/km Electrical resistance coating wire (Data) 54 Ω/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electric apacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Electric apacitance maperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature min. (dynamic) 70 °C Operating temperature max. (dynamic) 70 °C Filame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing	Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Diameter of single wires (Data) 22 AWG	Amount wires (Data)	2
Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power 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 0± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km Electrical resistance line constant wire 2 kV @ 60 s Electrical resistance lough 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 Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 70 °C Operating temperature max. (dynamic) 70 °C Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing<	Amount strands wire (Data)	19
Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity fin. 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 function wire (data) Power Characteristic impedance 120 Ω± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical pesistance vire - wire) 2 kV @ 60 s Electrical pesistance vire - wire) 2 kV @ 60 s Electrical pesistance vire - 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 min. (dynamic) 70 °C Flame resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 6 x Outer diameter Bending radius (fixed) 10 x Outer diameter Travel speed (C-track) 1 x Mio. No. of torsion cycles 2 x Mio. Torsion stress ± 30 °/m	Diameter of single wires (Data)	22 AWG
Electrical function wire (data) Nominal voltage AC max. 300 V Current load capacity (standard) Current load capacity min. Wire 4,5 A Current load capacity min. Wire (Data) Electrical function wire Data Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance to constant wire Electrical resistance line constant wire Electrical resistance ocating wire (Data) 54 Ω/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance AC withstand voltage (wire - shield) Min. operating temperature (static) Ax. operating temperature (static) Ayo °C Operating temperature (min. (dynamic) 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 (installation) No of torsion cycles ± 30 °/m	Conductor crosssection wire (Data)	22 AWG
Nominal voltage AC max. 300 V	Material conductor wire (Data)	copper stranded wire, tinned
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) 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 Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter	Electrical function wire (data)	Power
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 Oil resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 6 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	Nominal voltage AC max.	300 V
Current load capacity min. Wire (Data) 6 A Electrical function wire Data Electrical function wire (data) Power Characteristic impedance 120 $\Omega \pm 10$ % \oplus 1 MHz Electrical resistance line constant wire 78 Ω /km Electrical resistance line constant wire 54 Ω /km AC withstand voltage (wire - wire) 2 kV \oplus 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV \oplus 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV \oplus 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	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 pF/km AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ 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 $UL 1581 \S 1100 \text{ FT2} \text{ IEC } 60332-2-2 \text{ UL } 1581 \S 1090$ chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN $60811-404 \text{ [Good, application-related testing]}$ Bending radius (installation) x Outer diameter Bending radius (fixed) $6 \times \text{ Cuter } \text{ diameter}$ Bending radius (dynamic) $10 \times \text{ Cuter } \text{ diameter}$ Bending radius (dynamic) $10 \times \text{ Cuter } \text{ diameter}$ Travel speed (C-track) 1 Mio . No. of torsion cycles 2 Mio . Torsion stress $\pm 30 \text{ °/m}$	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 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 Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress	Current load capacity min. Wire (Data)	6 A
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 pF/km AC withstand voltage (wire - shield) $2 \text{ kV} \oplus 60 \text{ s}$ 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 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 $\pm 30 ^{\circ}$ /m	Electrical function wire	Data
Electrical resistance line constant wire 78 Ω/km	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) 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 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 ± 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 DIN EN 60811-404 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) To °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) Bending radius (dynamic) Travel speed (C-track) 1 Mio. No. of torsion cycles ± 30 °/m	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic) 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) Ending radius (fixed) Sending radius (dynamic) Travel speed (C-track) 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) No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Max. operating temperature (fixed)	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 2 Mio. Torsion stress ± 30 °/m	Operating temperature min. (dynamic)	-30 °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 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		UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
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 (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 (dynamic) 10 x Outer diameter Travel speed (C-track) 1 Mio. No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m	Bending radius (installation)	
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
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		1 Mio.
Torsion stress ± 30 °/m		2 Mio.
	Torsion speed	35 cycles/min