

M12 male 0° / M12 female 0° A-cod.

PUR AWG24+22 shielded vt UL/CSA+drag ch. 1.3m

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

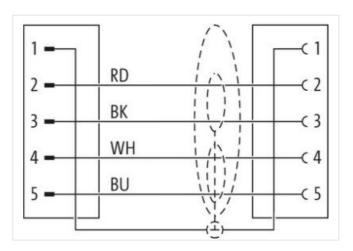
Plastic housings with good resistance against chemicals and oils.

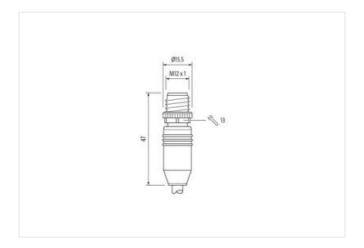
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

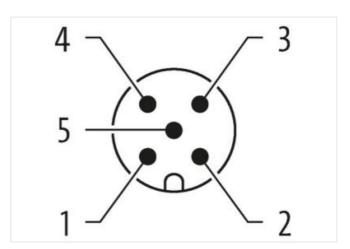
Link to Product

Illustration



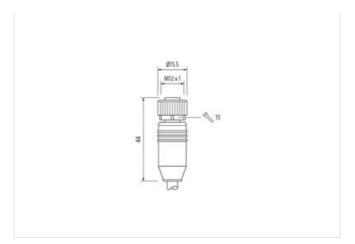


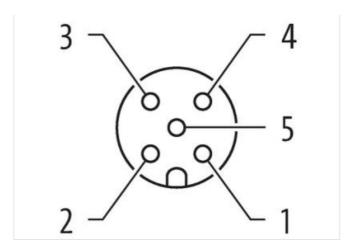






stay connected





Product may differ from Image



Cable length





1,3 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	4048879284530



stay connected

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)	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: 2024-05-20



stay connected

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 insulation (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 <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 Material conductor wire opper stranded wire, finned Electrical function wire Data Electrical function wire Data Electrical function wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Stata) 1,5 mm Tolerance outer diameter wire insulation (Data) 19 Ingredient freeness wire insulation (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Conductor vire (Data) 22 AWG Conductor vire (Data) 22 AWG Conductor vire (Data) 25 AWG	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 Propertical function wires (Data) 2 Amount wires (Data) 2 Power 22 AWG Conductor crosssection wire (Data) 22 AWG Merteral conditions wire (data) 22 AWG Conductor vire (Data) 22 AWG Nominal vortage AC max. 300 V Current load capacity fetancery inc. wire (Data) 6 A </td <td>Amount wires</td> <td>2</td>	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 V @ 60 s Electrical resistance coating wire wire 2 k V @ 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 Electrical function wire (data) 26 AWG Characteristic impedance 27 AWG Electrical function wire (data) 26 AWG Characteristic impedance 27 AWG Electrical resistance coating wire (Data) 25 AWG AWG withstand voltage (wire - wire) 25 AWG AWG Operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature wire. (dynamic) 70 °C Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Mine (wire - wire) 25 AWG Mine operating temperature wire. (wire) 25 AWG AWG AWG AWG AWG AWG AWG AWG AWG AWG AWG		
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 (statc) 40 °C Operating temperature (statc) 70 °C Operating temperature min. (dynamic) 70 °C Clerating temperature max. (dynamic) 10 N E No 11 100 FT2 EC 60332-2-2 UL 1581 § 1090 chemical 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 (fixed) 6 x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Fravel speed (C-track) 1 Mio. No. of torsion screes 2 Mio. Torsion stress 2 Mio.	,	
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 (static) -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 testing		
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 Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (stited) 30 °C 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, application-related testin	. ,	
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 Ω /km Electrical resistance coating wire (Data) 54 Ω /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 pF/km AC withstand voltage (wire - shield) $2 \text{ kV } @ 60 \text{ s}$ Electric graph representating (Estatic) 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 $10 \text{ List } 100 \text{ FT2} \text{IEC } 60332 \cdot 2 \cdot 2 \text{ UL } 1581 \$ 1090$ 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 Mio. No. of torsion cycles 2 Mio. Torsion stress 2 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 40000pF/km AC withstand voltage (wire - shield) $2 \text{kV} @ 60 \text{s}$ Electric capacitance 40000pF/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 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 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