

M12 female recept. D-cod. shielded rear

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 2m

Product fulfills requirements according to UN/ECE R118

Ethernet CAT5

Flange female

M12, 4-pole

D-coded

shielded

Rear mounting

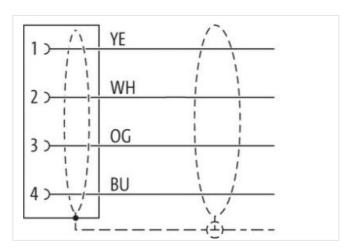
Further cable lengths on request.

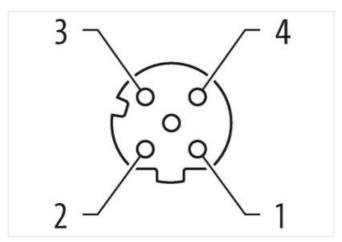
The resistance to aggressive media should be individually tested for your application. Further details on request.

Link to Product

Illustration







Product may differ from Image









Cable length

2 m



stay connected

Tightening torque	0.6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Coding	D
Material	Brass
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	07001001
ECLASS-6.0 ECLASS-7.0	27061801 27061801
ECLASS-7.0 ECLASS-8.0	27061801
ECLASS-6.0 ECLASS-9.0	
ECLASS-9.0 ECLASS-10.1	27061801
ECLASS-10.1 ECLASS-11.1	27440103 27440103
ECLASS-11.1 ECLASS-12.0	
ECLASS-12.0 ETIM-5.0	27440103 EC001855
customs tariff number	85444290
GTIN	4048879721691
Packaging unit	1
	<u>'</u>
Electrical data Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	100 MBit/s
Industrial communication Ethernet fur	nctionality
duplex	Full duplex
<u> </u>	1 dii dapiox
Installation Connection	
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)	
Mechanical data Material data	
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	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality



stay connected

Amount stranding 1 Siranding 4 wires around Core Illier twisted Cable shieding (preye) copper braid, Inned Cable shieding (coverage) 85 % Banding Fleeve, Foll Filler yes wire arrangement white, yellow, blue, orange No. of bending grose (C-track) 3 Mio. @ 25 °C Cable weight 68,3 gm Multeral jacket PUR Shore hardness jacket 89 Shore A Freedom from ingrodients (jacket) 10,4 min Colored diameter (jacket) 6,7 mm Tolerance outer diameter (sheath) 5 % Multeral jacket PRE Color (inner jacket) 7,4 min Multeral jacket PRE Color (inner jacket) 8,5 min @ 55 °C Courrent load capacity (inner jacket) 8,5 min @ 55 °C Courrent load capacity (inner jacket) 8,5 min @ 55 °C Courrent load capacity (inner wire) 8,5 min @ 55 °C Courrent load capacity (inner wire) 8,5 min @ 55 °C Courrent load capacity (inner wire) 8,5 min @ 50 °C Coeraign (jemperature (inter wire) 9,5 min @ 50 °C Coeraign (jemperature (inter wire) 9,5 min @ 50 °C Coeraign (jemperature (inter) 9,5 min @ 50 °C	UL 50E	yes
Jacket Cofor green Coffusion Coffu	Installation Cable	
Type of Certificate	Cable identification	796
Amount stranding 1 Siranding 4 wires around Core Illier twisted Cable shieding (preye) copper braid, Inned Cable shieding (coverage) 85 % Banding Fleeve, Foll Filler yes wire arrangement white, yellow, blue, orange No. of bending grose (C-track) 3 Mio. @ 25 °C Cable weight 68,3 gm Multeral jacket PUR Shore hardness jacket 89 Shore A Freedom from ingrodients (jacket) 10,4 min Colored diameter (jacket) 6,7 mm Tolerance outer diameter (sheath) 5 % Multeral jacket PRE Color (inner jacket) 7,4 min Multeral jacket PRE Color (inner jacket) 8,5 min @ 55 °C Courrent load capacity (inner jacket) 8,5 min @ 55 °C Courrent load capacity (inner jacket) 8,5 min @ 55 °C Courrent load capacity (inner wire) 8,5 min @ 55 °C Courrent load capacity (inner wire) 8,5 min @ 55 °C Courrent load capacity (inner wire) 8,5 min @ 50 °C Coeraign (jemperature (inter wire) 9,5 min @ 50 °C Coeraign (jemperature (inter wire) 9,5 min @ 50 °C Coeraign (jemperature (inter) 9,5 min @ 50 °C	Jacket Color	green
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Cable weight 69.3 g/m Material jacket PUR Shore hardness jacket 89 Shore A Freedem from ingredients (jacket) least free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 6,7 mm Toferance outer diameter (sheath) ± 5 % Material inner jacket FRNC Color (inner jacket) natur Material wisulation PE Amount wives 4 Outer diameter insulation 1,4 mm Outer diameter insulation ± 5 % Shore barriess wire insulation ± 5 % Noter diameter insulation ± 5 % Outer diameter insulation ± 5 % Nore hardness wire insulation ± 5 % Nore hardness wire insulation ± 5 % Nore of a single wires 2 2 AWG Conductor crossesetion (wire) 2 2 AWG Conductor crossesetion (wire) 22 AWG Current load capacity (standard) to DIN VDE 0298 4 Current load capacity (standard) to DIN VDE 0298 4 Current load capacity min. wire 4,8 A	wire arrangement	white, yellow, blue, orange
Material jacket PUR Shore hardness jacket 89 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 6,7 mm Tollerance outer diameter (sheath) ± 5 % Material inner jacket FINIC Color (inner jacket) natur Material wire insulation PE Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation € Shore D Ingredient freeness wire insulation € Shore D Ingredient freeness wire insulation ed-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m @ 25 °C Current load capacity (standard) to IN VDE C994-4 Current load capacity (standard) to IN VDE C994-4 Current load capacity (standard) to NU VDE C994-4 Current load capacity (standard)	No. of bending cycles (C-track)	3 Mio. @ 25 °C
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Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Material jacket	PUR
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 6,7 mm Tolerance outer diameter (sheath) ± 5 % Material inner jacket FRNC Color (inner jacket) natur Material wine insulation PE Amount wires 4 Outer diameter insulation 1,4 mm Outer diameter or insulation 65 Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crossection (wire) 22 AWG Diameter of single wires 22 AWG Courset load capacity (slandard) to DIN VDE 0298-4 Current load capacity (slandard) to DIN VDE 0298-4 Current load capacity (iniv. wire 4.8 A Characteristic impedance 500 MM ≥ 15 % @ 100 MM ≥ Electrical resistance line constant wire 55 Ωkm @ 20 °C Loop resistance 5000 MM ≥ km Nominal avoltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - shield)		89 Shore A
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Tolerance outer diameter (sheath) ± 5 % Material inner jacket FRNC Cotor (inner jacket) natur Material wire insulation PE Annount wires 4 Outer diameter insulation 1,4 mm Outer diameter tolerance core insulation 5 % Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m @ 25 °C Current load capacity min. wire 4.8 A Charactristic impedance 10 DIN VDE 0298-4 Current load capacity min. wire 4.8 A Charactristic impedance 100 Ω ± 15 %@ 100 MHz Electrical capacity line constant (wire - wire) (power) 550 km @ 20 °C Loop resistance 5000 MΩ × km Nominal voltage power (wire - shield) 2 k V @ 60 s Power frequency withstand voltage power (wire - wire) 2 k V @	Outer-diameter (jacket)	
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Shore hardness wire insulation 65 Shore D Ingredient freeness wire insulation lead-free, CFC-free, halogen-free Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m @ 25 °C Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 100 Ω ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Ω/km @ 20 °C Loop resistance 5000 MΩ × km Nominal voltage power AC max. 300 V Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) AC withstand voltage power (wire - shield) AC withstand voltage power (wire - shield) AC withstand voltage power (wire - wire) AC withstan		
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Amount strands (wire) 7 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m @ 25 °C Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Characteristic impedance 100 Ω ± 15 %@ 100 MHz Electrical resistance line constant wire 55 Ω/km @ 20 °C Loop resistance 5000 MΩ × km Nominal voltage power AC max. 300 V Electrical capacity line constant (wire - wire) (power) 50000 pF/km AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - shield) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (sked) 80 °C Max. operating temperature (sked) 80 °C Operating temperature (sked) 80 °C Operating temperature (sked) 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 109 UL 15	Shore nardness wire insulation	
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Material conductor wire Stranded copper wire, bare Traversing distance (C-track) 5 m @ 25 °C Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega / \text{km} = 20 \text{ °C}$ Loop resistance $5000 M \Omega \times \text{km}$ Nominal voltage power AC max. 300 V Electrical capacity line constant (wire - wire) (power) 50000 pF/km AC withstand voltage power (wire - shield) $2 \text{ kV } @ 60 \text{ s}$ Power frequency withstand voltage power (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ AC withstand voltage power (wire - wire) $2 \text{ kV } @ 60 \text{ s}$ Min. operating temperature (static) 40 °C Max. operating temperature min. (dynamic) 30 °C Operating temperature min. (dynamic) 30 °C Operating temperature max. (dynamic) 70 °C Flame resistance $[EC 60332-2-2 \mid UL 1581 \S 1990 \mid UL 1581 \S 1100 \text{ FT2}$ chemical resistance $Good$, application-related testing Gil resistance $Glod$, application-related testing		22 AWG
Traversing distance (C-track) 5 m @ 25 °C Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Characteristic impedance 100 Ω ± 15 % @ 100 MHz Electrical resistance line constant wire 55 Ω /km @ 20 °C Loop resistance 5000 M Ω × km Nominal voltage power AC max. 300 V Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (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 EC Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Conductor crosssection (wire)	22 AWG
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega \text{km} @ 20 ^{\circ}\text{C}$ Loop resistance Nominal voltage power AC max. 300 V Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Power frequency withstand voltage power (wire - wire) (wire - jacket) $4 \text{ kV} @ 60 \text{ s}$ AC withstand voltage power (wire - wire) $4 \text{ kV} @ 60 \text{ s}$ Min. operating temperature (static) $4 \text{ c} ^{\circ}\text{C}$ Operating temperature min. (dynamic) $4 \text{ c} ^{\circ}\text{C}$ Operating temperature max. (dynamic) $4 \text{ c} ^{\circ}\text{C}$ Flame resistance [EC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) $5 \times \text{Outer diameter}$	Material conductor wire	··
Current load capacity min. wire 4,8 A Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega / \text{km} @ 20 ^{\circ} \text{C}$ Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Nominal voltage power AC max. 300 V Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Power frequency withstand voltage power (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage power (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ 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 $6000 \text{ application-related testing}$ Gasoline resistance $9000 \text{ application-related testing}$ Bending radius (fixed) $5 \times \text{Outer diameter}$		
Characteristic impedance $100 \Omega \pm 15 \% @ 100 \text{ MHz}$ Electrical resistance line constant wire $55 \Omega / \text{km} @ 20 ^{\circ} \text{C}$ Loop resistance $5000 \text{ M}\Omega \times \text{km}$ Nominal voltage power AC max. 300 V Electrical capacity line constant (wire - wire) (power) 3000 pF/km AC withstand voltage power (wire - shield) $2 \text{ kV} @ 60 \text{ s}$ Power frequency withstand voltage power (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage power (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ AC withstand voltage power (wire - wire) $2 \text{ kV} @ 60 \text{ s}$ 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 $1 \text{EC} 60332 \cdot 2 \cdot 2 \cdot 1 \text{ Ut} 1581 \$ 1000 \text{ Ut} 1581 \$ 1100 \text{ FT2}$ chemical resistance $30000 \text{ application-related testing}$ Gasoline resistance $30000 \text{ application-related testing}$ Oil resistance $30000 \text{ application-related testing}$ Bending radius (fixed) $30000 \text{ application-related testing}$		to DIN VDE 0298-4
Electrical resistance line constant wire 55 Ω/km @ 20 °C Loop resistance 5000 MΩ × km Nominal voltage power AC max. 300 V Electrical capacity line constant (wire - wire) (power) 50000 pF/km AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (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 IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Current load capacity min. wire	4,8 A
Loop resistance5000 MΩ × kmNominal voltage power AC max.300 VElectrical capacity line constant (wire - wire) (power)50000 pF/kmAC withstand voltage power (wire - shield)2 kV @ 60 sPower frequency withstand voltage power (wire - wire) (wire - jacket)2 kV @ 60 sAC withstand voltage power (wire - wire)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameter	Characteristic impedance	100 Ω ± 15 % @ 100 MHz
Nominal voltage power AC max. Electrical capacity line constant (wire - wire) (power) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) 2 kV @ 60 s AC withstand voltage power (wire - wire) 2 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Electrical resistance line constant wire	55 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire) (power) 50000 pF/km AC withstand voltage power (wire - shield) 2 kV @ 60 s Power frequency withstand voltage power (wire - gacket) 2 kV @ 60 s AC withstand voltage power (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 IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Loop resistance	5000 MΩ × km
(power) AC withstand voltage power (wire - shield) Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (wire - wire) AC withstand voltage power (wire wir	Nominal voltage power AC max.	300 V
Power frequency withstand voltage power (wire - jacket) AC withstand voltage power (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 IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	. ,	50000 pF/km
(wire - jacket) AC withstand voltage power (wire - wire) AC withstand voltage power (wire - wire - wire) AC withstand voltage power (wire - wire) AC wit	AC withstand voltage power (wire - shield)	2 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Power frequency withstand voltage power (wire - jacket)	2 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 Chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	AC withstand voltage power (wire - wire)	2 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 70 °C Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Max. operating temperature (fixed)	80 °C
Flame resistance IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	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 (fixed) 5 x Outer diameter	Operating temperature max. (dynamic)	70 °C
Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	Flame resistance	IEC 60332-2-2 UL 1581 § 1090 UL 1581 § 1100 FT2
Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter	Gasoline resistance	Good, application-related testing
	Oil resistance	DIN EN 60811-404 Good, application-related testing
Bending radius (dynamic) 12 x Outer diameter	Bending radius (fixed)	5 x Outer diameter
	Bending radius (dynamic)	12 x Outer diameter

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: 2024-04-25



No. of torsion cycles 1 Mio. 25 °C

Torsion stress ± 180 °/m