

M12 female 90° A-cod. with cable

PUR 4x0.34 bk UL/CSA+robot+drag ch. 15m

Female 90°

Zinc die casting, save-cover coated

M12, 4-pole

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

with cable sleeves

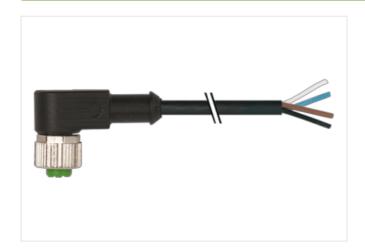
Plastic housings with good resistance against chemicals and oils.

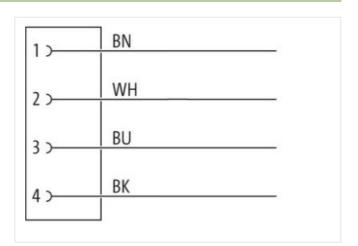
The resistance to aggressive media should be individually tested for your application. Further details on request.

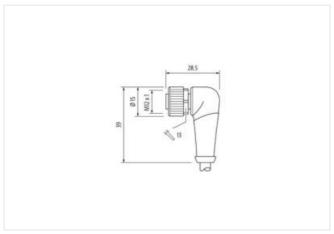
Further cable lengths on request.

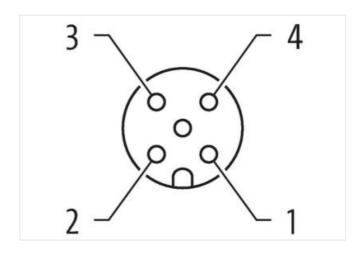
Link to Product

Illustration









Product may differ from Image













Cable length

15 m

Side 1



stay connected

Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material contact	Copper alloy
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Coating contact	gold plated
Material contact	Copper alloy
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879309677
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	250 V
Operating voltage DC max.	250 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation Connection	
Stripping length (jacket)	20 mm
Mounting set	M12 x 1
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	2,5 kV
Material group (IEC 60664-1)	
Mechanical data Material data	
Coating locking	safe-cover coated
Coating of fitting	nickel plated
Material gasket	FKM
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting Zinc die-casting
Mechanical data Mounting data	
	inserted earnwed Chaking protection
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	

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: 2024-05-05



stay connected

important installation proteins range important installation proteins and installation proteins and installation proteins are proteins and installation proteins and installation proteins are proteins and installation proteins and installation proteins are proteins are proteins and installation proteins are proteins and installation (Seba Color Back Identification Seba Color Ba	Operating temperature min.	-25 °C
Important installation notes Note on Start notify Attention: Cheeves the permissable hending radii when laying cables, as the IP protection class can be orderagerously excessive bending forces. Attention: Cheeves the permissable hending radii when laying cables, as the IP protection class can be orderagerously excessive bending forces. Conformity **Tocknot standard** DIN EN 61076-2-101 (M12) Installation Cabbe** Dables (dendification Cabbe** Dables (Type S. S. S. S. S. S. S. S	Operating temperature max.	85 °C
Late on strain relief Protect the connectors by suitable measures from mechanical loade, e.g., by the usage of cable ties. Altertion: Observe the permissible bornding radii when keying cables, as the IP protection class can be endangered by excessive bernding forces. Obtained the content of the content	Additional condition temperature range	depending on cable quality
	Important installation notes	
Contamination Cabba	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Installation Cabbe	Note on bending radius	
Installation Cable Sable Imple 55 Sacket Color black Sable Imple 5 Sacket Color black Sacket C	Conformity	
Sable Inches Section	Product standard	DIN EN 61076-2-101 (M12)
Sacket Type 5 sacket Color black you of Certificate cURus Vincurti stranding 1 Stranding 4 wirce swisted wire arrangement brown, black, blue, white Fraversing distance (C-track) 5 m @ 25 °C horizontal Soble weight 36.3 g/m Autorial jacket PUR Marchanoss jacket 58 ± 3 Shore D Foredown from ingedients (jacket) 4.7 mm Folderance outer diameter (jacket) 4.7 mm Folderance outer diameter (seath) ± 5 % Autorial wire insulation PP Vincount wires 4 Autorial wire insulation PP Vincount wires 4 Autorial candress wire insulation ± 5 % Shore handness wire insulation ± 3 Shore D Foreductor recesses wire insulation ± 3 Shore D Foreductor type (wire) 42 Jameler of single wires 0,1 mm Orductor type (wire) strand disas 6 Conductor type (wire) strand disas 6 <td< td=""><td>Installation Cable</td><td></td></td<>	Installation Cable	
Sacket Type 5 sacket Color black you of Certificate cURus Vincurti stranding 1 Stranding 4 wirce swisted wire arrangement brown, black, blue, white Fraversing distance (C-track) 5 m @ 25 °C horizontal Soble weight 36.3 g/m Autorial jacket PUR Marchanoss jacket 58 ± 3 Shore D Foredown from ingedients (jacket) 4.7 mm Folderance outer diameter (jacket) 4.7 mm Folderance outer diameter (seath) ± 5 % Autorial wire insulation PP Vincount wires 4 Autorial wire insulation PP Vincount wires 4 Autorial candress wire insulation ± 5 % Shore handness wire insulation ± 3 Shore D Foreductor recesses wire insulation ± 3 Shore D Foreductor type (wire) 42 Jameler of single wires 0,1 mm Orductor type (wire) strand disas 6 Conductor type (wire) strand disas 6 <td< td=""><td>Cable identification</td><td>654</td></td<>	Cable identification	654
A		
Sype of Certificate cURsus Immount stranding 1 A were stwisted Incomplete (C-track) 5 m @ 25 °C horizontal Asterial jacket PUR Asterial weight Size of Start Shore D Freedom from ingredients (jacket) 4,7 mm Folerance outer diameter insulation PP Folerance outer diameter insulation PP Folerance outer diameter insulation 1,25 mm Folerance outer diameter i	Jacket Color	· ·
Direction A wires twisted A wires A wires twisted A wires A wire	Type of Certificate	
Stranding	Amount stranding	1
Fraversing distance (C-track) 5 m @ 25 °C horizontal acable weight 38,3 g/m 36,3 g	Stranding	4 wires twisted
Cable weigth 36,3 g/m Abterfal jakekt PUR Shore hardness jakekt 58 ± 3 Shore D Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter diameter (jacket) 4,7 mm Folorance outer diameter (sheath) ± 5 % Alterfal wire insulation PP Amount wires 4 Duter diameter insulation 1,25 mm Shore hardness wire insulation 7.7 ± 2 Shore D Shore hardness wire insulation 7.7 ± 2 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Inmount strands (wire) 42 Shameter of single wires 0,1 mm Conductor rosssection (wire) 0,34 mm² Attended conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Contract Total capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN CP 02 C 0 Cow	wire arrangement	brown, black, blue, white
Autorial Jacket PUR S8 ± 3 Shore D	Traversing distance (C-track)	
Series S	Cable weigth	36,3 g/m
Stroke hardness jacket S8 ± 3 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Deuter-diameter (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Deuter-diameter (sheath) ± 5 %	Material jacket	
Duter-diameter (jacket)	Shore hardness jacket	58 ± 3 Shore D
Tolerance outer diameter (sheath) ± 5 % Alaterial wire insulation PP Amount wires 4 Duter diameter insulation 1,25 mm Duter diameter tolerance core insulation ± 5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Mount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Alaterial conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Conductor type (wire) strand class 6 Countered toad capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire wire) 2,5 kV @ 60 s Cover frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Cover frequency withstand voltage (wire - acket) 40 °C Alax. operating temperature (static) 40 °C Max. operating temperature (wire) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) <	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Autorial wire insulation PP	Outer-diameter (jacket)	4,7 mm
Amount wires 4 Duter diameter insulation 1,25 mm Duter diameter lolerance core insulation 2.5 % Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation 1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor crosssection (wire) 0.34 mm² Alaterial conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Durrent 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 Cisclectrical resistance line constant wire 60 Ω/km @ 20 °C Alax. operating temperature (static) -40 °C Alax. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Div resistance DIN EN ISO 4992-2 A Claime resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing DIN EN 60811-404 Sending radius (fixed) 5 x Outer diameter Sending radius (fixed) 5 x Outer diameter Sending radius (dynamic) 10 x Outer diameter	Tolerance outer diameter (sheath)	± 5 %
Duter diameter insulation 1,25 mm Duter diameter tolerance core insulation 4 ± 3 Shore D Ingredient freeness wire insulation 7 ± ± 3 Shore D Ingredient freeness wire insulation Ingredient freeness wire insultance Ingredient freeness wire insultance Ingredient freeness with analoge of the particular free insulation Ingredient freene	Material wire insulation	PP
Duter diameter tolerance core insulation 74 ± 3 Shore D Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation Ingredient	Amount wires	4
Shore hardness wire insulation 74 ± 3 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Minount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Hominal voltage AC max. 300 V Durrent load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 4.8 A Electrical resistance line constant wire 60 Ω/km @ 20 °C CW withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - 2,5 kV @ 60 s Power frequency withstand voltage (wire - 25 °C Operating temperature (static) 40 °C Deparating temperature min. (dynamic) 25 °C Operating temperature min. (dynamic) 25 °C Ope	Outer diameter insulation	1,25 mm
lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 42 Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² Atterial conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 \(\Omega lk W	Outer diameter tolerance core insulation	± 5 %
Amount strands (wire) 42 Diameter of single wires 0,1 mm 0,34 mm² Anterial conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Anterial conductor wire As or or frequency withstand voltage (wire - 2,5 kV @ 60 s Anterial to preating temperature (static) Anterial to preating temperature (fixed) Anterial to preating temperature min. (dynamic) Anterial to preating temperature max. (dynamic) Anterial to Fig. (2000)	Shore hardness wire insulation	74 ± 3 Shore D
Olameter of single wires Olameter of single wire Olameter of single wires Olameter of single wires, bare Olam	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) Material conductor wire Stranded copper wire, bare Conductor type (wire) Stranded copper wire, bare Stranded class 6 Nominal voltage AC max. 300 V Current load capacity (standard) Current load capacity min. wire 4,8 A Electrical resistance line constant wire Conductor wire wire) 2,5 kV @ 60 s Conductor withstand voltage (wire - wire) 2,5 kV @ 60 s Conductor withstand voltage (wire wire) 2,5 kV @ 60 s Conductor withstand voltage (wire wire) 2,5 kV @ 60 s 2,5 kV @	Amount strands (wire)	42
Alterial conductor wire Stranded copper wire, bare Strand class 6 Alominal voltage AC max. 300 V Current load capacity (standard) Current load capacity (standard) Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Coverating temperature (static) Aloma: Alom	Diameter of single wires	0,1 mm
Sonductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - acket) 2.5 kV @ 60 s Alin. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation JV resistance DIN EN ISO 4892-2 A Elame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Basoline resistance Good, application-related testing Basoline radius (fixed) 5 x Outer diameter Basoling radius (dynamic) 10 x Outer diameter	Conductor crosssection (wire)	0,34 mm ²
Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 4,8 A Electrical resistance line constant wire 4,8 A Electrical resistance voltage (wire - wire) 2,5 kV @ 60 s Cower frequency withstand voltage (wire - acket) Alin. operating temperature (static) Alin. operating temperature (fixed) Alin. operating temperature (fixed) Alin. operating temperature (fixed) Alin. operating temperature (min. (dynamic) Alin. operating temperature min. (dynamic) Alin. operating	Material conductor wire	Stranded copper wire, bare
Current load capacity (standard) to DIN VDE 0298-4 4,8 A Current load capacity min. wire 4,8 A Clectrical resistance line constant wire 60 Ω/km @ 20 °C 2,5 kV @ 60 s Cover frequency withstand voltage (wire - wire) 2,5 kV @ 60 s 2,5 kV @ 60 s Alax. operating temperature (static) Deparating temperature min. (dynamic) 25 °C Deparating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Div resistance DIN EN ISO 4892-2 A Claimer resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing Good, application-related testing Claimer resistance Good, application-related testing DIN EN 60811-404 Claimer resistance Good, application-related testing DIN EN 60811-404 Claimer resistance Good, application-related testing DIN EN 60811-404 Claimer resistance Claimer resistance Good, application-related testing DIN EN 60811-404 Claimer resistance Claimer resistance Good, application-related testing DIN EN 60811-404 Claimer resistance Claimer	Conductor type (wire)	strand class 6
Current load capacity min. wire 4,8 A Electrical resistance line constant wire 60 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Cower frequency withstand voltage (wire - acket) Alin. operating temperature (static) Alin. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Coperating temperature min. (dynamic) -25 °C Coperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Div resistance DIN EN ISO 4892-2 A Elame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Cil resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Nominal voltage AC max.	300 V
Electrical resistance line constant wire 60 Ω/km @ 20 °C 2,5 kV @ 60 s Power frequency withstand voltage (wire - acket) Acket) 2,5 kV @ 60 s Acket) Another frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Another frequency withstand voltage (wire - acket) Another frequency withstand voltage (wire - with acket) 40 °C Another frequency withstand voltage (wire - with acket) 40 °C Another frequency withstand voltage (wire - with acket) 40 °C Another frequency withstand voltage (wire - with acket) 40 °C	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2,5 kV @ 60 s 2,5 kV @ 60 s Alin. operating temperature (static) Acx. operating temperature (fixed) Deparating temperature (fixed) Deparating temperature (fixed) Deparating temperature min. (dynamic) Deparating temperature max. (dynamic) Deparating temperature max. (dynamic) DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Chemical resistance Good, application-related testing Basoline resistance Good, application-related testing DIN EN 60811-404 Sending radius (fixed) 5 × Outer diameter Sending radius (dynamic) 10 x Outer diameter	Current load capacity min. wire	4,8 A
Power frequency withstand voltage (wire - acket) 2,5 kV @ 60 s Ain. operating temperature (static) 40 °C Max. operating temperature (fixed) Departing temperature min. (dynamic) 25 °C Departing temperature max. (dynamic) 30 °C / 90 °C @ 10000 h Operation DIN EN ISO 4892-2 A 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 Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Electrical resistance line constant wire	60 Ω/km @ 20 °C
Acket) Alin. operating temperature (static) Alin. operating temperature (fixed) Alin. operating temperature min. (dynamic) Alin. operating temperature (fixed) Alin	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) OPERATING TEMPERATURE MAX. (dynamic) OPERATING TEMPERATURE MAX. (dynamic) OPERATURE MAX. (dynamic)	Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Bo °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A 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 Dil resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A 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 Dil resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
DIN EN ISO 4892-2 A 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 Dil resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Operating temperature min. (dynamic)	-25 °C
Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Good, application-related testing Dil resistance Good, application-related testing Dil Resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Gending radius (fixed) 5 x Outer diameter Gending radius (dynamic) 10 x Outer diameter	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistance Good, application-related testing Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
Dil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	chemical resistance	
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter	Oil resistance	Good, application-related testing DIN EN 60811-404
	Bending radius (fixed)	5 x Outer diameter
ravel speed (C-track) 10 Mio. @ 25 °C	Bending radius (dynamic)	
	Travel speed (C-track)	10 Mio. @ 25 °C

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: 2024-05-05



No. of torsion cycles	1 Mio.	
Torsion stress	± 360 °/m	
Torsion speed	35 cycles/min	