

M12 female 90° A-cod. with cable

PUR 3x0.75 bk UL/CSA+drag ch. 20m

Female 90° M12, 3-pole 2× LED (PNP)

Invers-polarity protection

Plastic housings with good resistance against chemicals and oils.

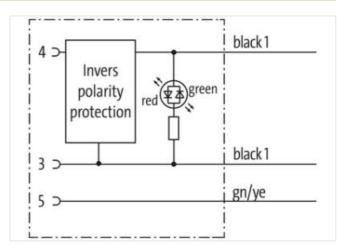
The resistance to aggressive media should be individually tested for your application. Further details on request.

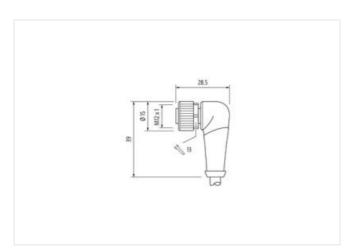
Further cable lengths on request.

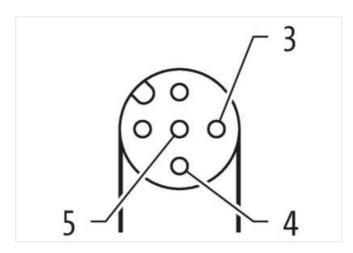
Link to Product

Illustration









Product may differ from Image











Cable length

20 m

Side 1

Tightening torque

0,6 Nm



stay connected

Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	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 Bealing with	4048879568234
Packaging unit	1
Electrical data Supply	
Operating voltage DC	24 V
Operating voltage DC min.	20,4 V
Operating voltage DC max.	27,6 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	green, red
Installation Connection	
Mounting set	M12 x 1
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Mechanical data Material data	9,5
·	No. 1. 1.
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material Material screw connection	Zinc die-casting
	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.
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stay connected

Material jacket PUB Shore hardness jacket 90 ± 5 Shore A Freedon from Ingredients (jacket) 5,9 mm Tolerance outer diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1,85 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 186 mm Ingredient freeness wire insulation 42 Diameter of single wires 0,15 mm Conductor of wire insulation 9,75 mm² Material conductor wire Stranded copper wire, bare Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE (298-4 Current load capacity (standard) to DIN VDE (298-4	Cable identification	636
Jacket Color	Cable Type	3
Jacket Color	Printing color of wire insulation	white (isolation black)
Stranding 1	Jacket Color	black
Stranding 3 wires twisted wire arrangement black 1, black 2, green-yellow Cable weigh 56, 1 gm Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 1 black 1, black 2, green-yellow Outer diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1,85 mm Outer diameter insulation 70 ± 5 Shore D Shore hardness wire insulation 70 ± 5 Shore D Printing color of wire insulation 70 ± 5 Shore D Printing color of wire insulation 42 Shore hardness wire insulation Printing polor of wire insulation white (solation black) Amount strands (wire) 42 Biameter of insple wires 0,15 mm Conductor type (wire) stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C Inotzontal Nominal voltage (wire - wire) 2.5 kW @ 60 s <tr< td=""><td>Type of Certificate</td><td>cURus</td></tr<>	Type of Certificate	cURus
wire arrangement black 1, black 2, green-yellow Cable weight 56,1 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 18a6-free, cadmium-free, CFC-free, halogen-free, silicone-free Curd-diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Material wire insulation PP Amount wires 3 Outer diameter insulation 1,85 mm Outer diameter insulation 1,85 mm Outer diameter insulation 70 ± 5 Shore D Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation white (solation black) Amount wires wire insulation 1,85 mm Outer diameter tolerance core insulation 70 ± 5 Shore D Ingredient freeness wire insulation white (solation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor of single wires 0,15 mm Conductor pise (wire) 1,0 mm Conductor lyse (wire) 1,0 mm Conductor wire Strand class 6 Traversing distance (C-track) 10 mm 25 °C (horizontal Nominal voltage AC max. 300 V Current load capacity (standard) 1,0 mm 20 °C (horizontal Nominal voltage AC max. 300 V Current load capacity (standard) 1,0 mm 20 °C (horizontal Nominal voltage (wire - wire) 2,5 kV @ 60 s Minn. operating temperature (static) 40 °C (25 kV @ 60 s Minn. operating temperature (dynamic) 25 °C (26 10000 h Operation Operating temperature max. (dynamic) 1,0 mm 20 °C (26 10000 h Operation Operating temperature max. (dynamic) 1,0 mm 20 °C (26 10000 h Operation Operating temperature max. (dynamic) 1,0 mm 20 °C (26 10000 h Operation Operating temperature max. (dynamic) 1,0 kN S of 95 °C (26 10000 h Operation Opera	Amount stranding	1
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Cable weight 56,1 g/m Material jackert PUR Shore hardness jackot 90.2 5 Shore A Freedom from ingretients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diumeter (jacket) 5,9 mm Older-diumeter (jacket) 1.5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1.85 mm Outer diameter insulation 1.85 mm Outer diameter tolerance core insulation 1.5 % Ingredient freeness wire insulation 1.6 5 Shore D Ingredient freeness wire insulation 1.6 2 Shore D Ingredient freeness wire insulation 4.2 4 Printing older of wire insulation 4.2 4 Printing older of wire insulation 4.2 4 Printing older of wire insulation 4.2 4 Diameter of single wires 0.15 mm Conductor ressessection (wire) 0.75 mm² Conductor type (wire) Strand class 6 Traversing detence (C-track) 1.0 m @ 25 °C Indizontal Nominal voltage AC max. 300 V Curre	wire arrangement	black 1, black 2, green-yellow
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer diameter (jacket) 5,9 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1,85 mm Under diameter insulation 1,85 mm Outer diameter olerance oors insulation 1,85 mm Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1,85 mm Ingredient freeness wire insulation 40 ± 5 % Shore hardness wire insulation 1,85 mm Ingredient freeness wire insulation 40 ± 5 % Shore bardness wire insulation 1,85 mm Ingredient freeness wire insulation 40 ± 5 % Shore bardness wire insulation 1,85 mm Conductor of single wires 0,15 mm Conductor of single wires 0,15 mm Conductor of vires wire insulation 0,75 mm² Material vires wire in single wires 0,15 mm²	Cable weigth	
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Tolerance outer diameter (sheath)	Outer-diameter (jacket)	·
Amount wires 3 Outer diameter insulation 1,85 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Max. operating temperature (fixed) 8	Tolerance outer diameter (sheath)	±5%
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Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m@ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (win- wire) 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - vire) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 U. I 1581 § 1100 FT2 U. 1581 § 1090 chemical resistance Good, application-related testing	Shore hardness wire insulation	70 ± 5 Shore D
Printing color of wire insulation white (isolation black) Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m@ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (win- wire) 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - vire) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 U. I 1581 § 1100 FT2 U. 1581 § 1090 chemical resistance Good, application-related testing	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - iacket) 2,5 kV @ 60 s Min. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) -26 °C Operating temperature max. (dynamic) -80 °C / 90 °C @ 10000 h Operation UV resistance DIN RN ISO 4892-2 l LSS § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bend	Diameter of single wires	0,15 mm
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 40 °C Max. operating temperature (static) -40 °C Max. operating temperature min. (dynamic) -25 °C Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance EG 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter <td></td> <td></td>		
Traversing distance (C-track) Nominal voltage AC max. 300 V Current load capacity (standard) Left Distriction resistance line constant wire 26 C/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - incompanie) Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A Flame resistance Bending resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 IN o DIN so V Se C 10 D V Se C 10 D V Se C 10 Min. operating Left desting 10 x Outer diameter Travel speed (C-track) 10 Min. og 25 °C No. of torsion cycles ± 180 °/m		Stranded copper wire, bare
Traversing distance (C-track) Nominal voltage AC max. 300 V Current load capacity (standard) Left Distriction resistance line constant wire 26 C/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - incompanie) Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A Flame resistance Bending resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 IN o DIN so V Se C 10 D V Se C 10 D V Se C 10 Min. operating Left desting 10 x Outer diameter Travel speed (C-track) 10 Min. og 25 °C No. of torsion cycles ± 180 °/m	Conductor 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 12 A Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - igacket) 2,5 kV @ 60 s Min. 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 UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m		
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Electrical resistance line constant wire 26 Ω/km @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 2,5 kV @ 60 s Min. 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 UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m		12 A
Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) A0 °C Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) B0 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m		26 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Au °C Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance LEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m		2,5 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles ± 180 °/m	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 IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
UV resistance DIN EN ISO 4892-2 A Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Operating temperature min. (dynamic)	-25 °C
Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	UV resistance	DIN EN ISO 4892-2 A
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Flame resistance	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 180 °/m	Travel speed (C-track)	10 Mio. @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min		± 180 °/m
	Torsion speed	35 cycles/min