

M12 male 0° A-cod. / MSUD valve plug A-18mm

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

Art.No.: 7000-40881-2360300

Weight: 0.191 Country of origin: CZ

Model designation: MSKL3-A-W236_3.0

Form A (18 mm) - M12, male straight

24 V AC $\pm 20\%$ / DC $\pm 25\%$ LED and suppression

Bridged PE A-coded

Further cable lengths on request.

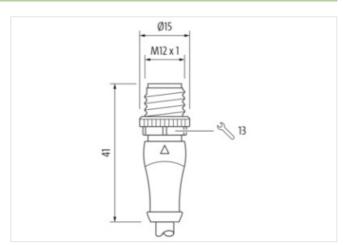
Plastic housings with good resistance against chemicals and oils.

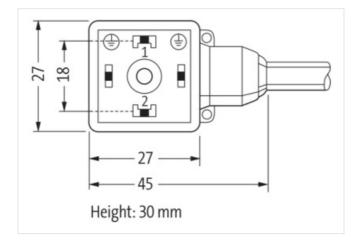
The resistance to aggressive media should be individually tested for your application. Further details on request.

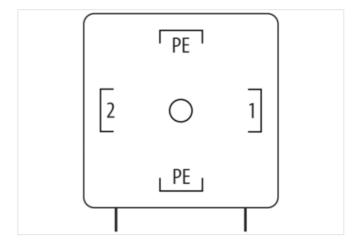
Link to Product

Illustration



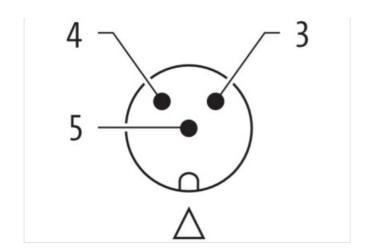


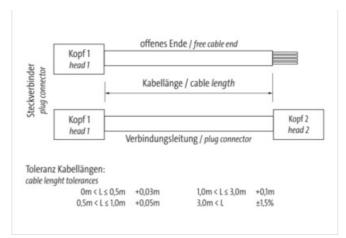


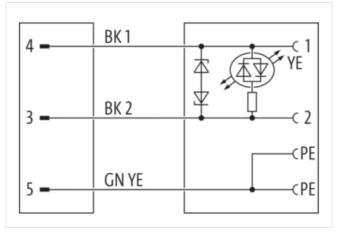


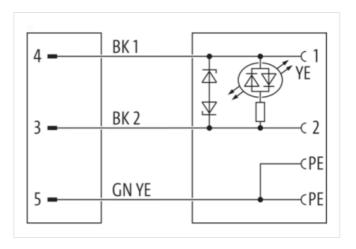


stay connected









Product may differ from Image











Header	
Material short text	MSKL3-A-W236_3.0
Cable length	3.0 m
Side 1	
Family construction form	M12
No. of poles	3
Coding	A
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
Degree of protection (EN IEC 60529)	IP67
Side 2	
Family construction form	MSUD A
No. of poles	4
Thread	M3



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Tightening torque	0.4 Nm
Material	PBT
Degree of protection (EN IEC 60529)	IP67
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-40881-2360300
GTIN	4048879152396
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.1	27279218
ECLASS-8.0	27279218
ECLASS-8.1	27279218
ECLASS-9.0	27060312
ECLASS-9.1	27060312
ECLASS-10.0.1	27060312
ECLASS-10.1	27060312
ECLASS-11.0	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ECLASS-13.0	27060312
ECLASS-14.0	27060312
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
customs tariff number	85444290
EAN	4048879152396
Packaging unit	1
Electrical data	
Drop-out delay time max.	20 ms
Electrical data Supply	
Operating voltage AC	24 V
Operating voltage AC min.	19.2 V
Operating voltage AC max.	28.8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Cut-off peak voltage max.	55 V
Current consumption max.	15 mA
Diagnostics	
Status indication LED	yellow
Device protection Electrical	
	ID67
Degree of protection (EN IEC 60529) Additional condition protection degree	IP67
Pollution Degree	inserted, screwed 3
Additional suppressor	Z-Diode
Rated surge voltage	
	0.8 kV
Material group (IEC 60664-1)	l .
Mechanical data Material data	
Material housing	Plastic



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Mechanical data Mounting data Mounting data Mounting rethod Mounting retho	Color housing	black
Mechanical data Mounting data Mounting method inserted, screwed Environmental characteristics Climatic Operating important mem.	Locking material	Zinc die-casting
Mounting method inserted, screwed Environmental characteristics Climate Doparating temporature man. 25 °C Doparating temporature man. 85 °C Additional condition temperature range depending on cable quality Important installation notes 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. Note on stain rate! Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ites. Conformity Product standard DIN EN 61076-2-101 (M12), DIN EN 175301-803 Installation Cable Cable Type 3 and standard 1 Standard 1 Standard 1 Standard 1 Standard 3 wins standard Wife arrangement Back I, block 2, green-yellow Cable leveligh 56-1 g/m Malarial wire insulation PP Amount wires 3 Subder diameter insulation PP Amount wires 3 Subder diameter insulation 1 Store In Insulation 1 Store In Insulation CFC free, cadmium-free, silicone-free, halogen-free, lead-free Printing color of wire insulation wire load single wires Out-off diameter (placks) 5 Store In Insulation CFC free, cadmium-free, silicone-free, halogen-free, lead-free Wire Insulation (wire) Stranded copper wire, bare Wire strand (asses 6 Dubered-diameter (placks) 5 Strand Stranded copper wire, silicone-free, halogen-free, lead-free Wire strand classes 6 Dubered-diameter (placks) 5 Strandard (asses 6 Dubered-diameter (placks) 5 Strandard	Coating locking	Nickeled
Environmental characteristics Climate	Material gasket	PUR
Environmental characteristics Climatic Operating temperature min. .25 °C Operating temperature max. .85 °C Additional condition temperature range depending on cable quality	Mechanical data Mounting data	
Operating temperature min25 °C Operating temperature max85 °C Operating temperature max. (virum) 25 °C Operating temperature (max.) -95 °C Operating temperature min95 °C Operating temperature min. (virum) 25 °C Operating	Mounting method	inserted, screwed
Operating temperature min25 °C Operating temperature max85 °C Operating temperature max. (virum) 25 °C Operating temperature (max.) -95 °C Operating temperature min95 °C Operating temperature min. (virum) 25 °C Operating	Environmental characteristics Climatic	
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Important installation notes	· • ·	
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Product standard DIN EN 61076-2-101 (M12), DIN EN 175301-803 Installation Cable	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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Ingredient freeness wire insulation CFC-free, cadmium-free, silicone-free, halogen-free, lead-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 Duter-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 \(\Omega \text{km} \) \(\omega \text{20} \) \(\omega \text{Conductor} \) Withstand voltage (wire - wire) 2.5 kV \(\omega \text{60} \text{ s} \) Withstand voltage (wire - jacket) 2.5 kV \(\omega \text{60} \text{ s} \) Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) 80 °C / 90 °C \(\omega \text{10000 h Operation} \) Operating temperature (mixed) 80 °C / 90 °C \(\omega \text{10000 h Operation} \)	Outer diameter tolerance core insulation	± 0.1 mm
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 Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - yire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity standard) to DIN VDE 0298-4 Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Shore hardness wire insulation	70 ± 5 Shore D
Amount strands (wire) Diameter of single wires O.15 mm Conductor crosssection (wire) O.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity gischandard) Current load capacity min. wire 12 A Min. operating temperature (static) Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 2.5 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Ingredient freeness wire insulation	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Diameter of single wires O.15 mm Conductor crosssection (wire) O.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) Current load capacity (standard) Current load capacity (standard) Current load capacity min. wire 12 A Min. operating temperature (static) Max. operating temperature (static) Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Printing color of wire insulation	white (isolation black)
Conductor crosssection (wire) 0.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A 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	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Diameter of single wires	0.15 mm
Strand class 6 Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A 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	Conductor crosssection (wire)	0.75 mm ²
Outer-diameter (jacket) 5.9 mm Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A 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	Material conductor wire	Stranded copper wire, bare
Tolerance outer diameter (sheath) ± 5 % Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Conductor type (wire)	strand class 6
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Min. operating temperature (static) Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Deperating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Outer-diameter (jacket)	5.9 mm
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Min. operating temperature (static) 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	Tolerance outer diameter (sheath)	± 5 %
Freedom from ingredients (jacket) CFC-free, cadmium-free, silicone-free, halogen-free, lead-free Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Min. operating temperature (static) 40 °C Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Material jacket	PUR
Material property (jacket) matte, good machinability, abrasion-resistant, low adhesion Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A 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	Shore hardness jacket	90 ± 5 Shore A
Conductor resistance (wire) 26 Ω/km @ 20 °C Nominal voltage AC max. 300 V Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A Min. operating temperature (static) 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	Freedom from ingredients (jacket)	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Nominal voltage AC max. Withstand voltage (wire - wire) 2.5 kV @ 60 s Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) Current load capacity min. wire 12 A Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Material property (jacket)	matte, good machinability, abrasion-resistant, low adhesion
Withstand voltage (wire - wire) 2.5 kV @ 60 s Current load capacity (standard) Current load capacity min. wire 12 A Min. operating temperature (static) A0 °C Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Conductor resistance (wire)	26 Ω/km @ 20 °C
Withstand voltage (wire - jacket) 2.5 kV @ 60 s Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A 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	Nominal voltage AC max.	300 V
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 12 A 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	Withstand voltage (wire - wire)	2.5 kV @ 60 s
Current load capacity min. wire 12 A 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	Withstand voltage (wire - jacket)	2.5 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation 80 °C / 90 °C @ 10000 h Operation	Current load capacity (standard)	to DIN VDE 0298-4
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	Current load capacity min. wire	12 A
Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 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 min. (drag chain) -25 °C	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
	Operating temperature min. (drag chain)	-25 °C



Operating temperature max. (drag chain)	80 °C / 90 °C @ 10000 h Operation
Flame resistance	UL 1581 § 1090, CSA FT2, IEC 60332-2-2
Oil resistance	IEC 60811-404
Chemical resistance	good
Other resistances	good resistance to gasoline, resistant to hydrolysis, resistant to microbes
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C horizontal
Travel speed (C-track)	3 m/s @ 25 °C
Acceleration (C-track)	10 m/s² @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min