

## M12 Power female 0° L-cod. with cable

PUR 5x1.5 bk UL/CSA+drag ch. 12m

Power Female straight M12, 5-pole L-coded

with cable sleeves

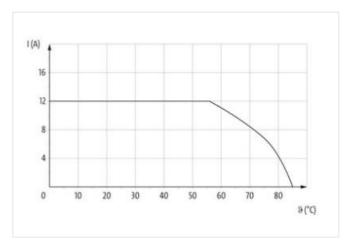
Plastic housings with good resistance against chemicals and oils.

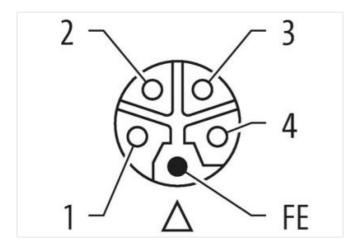
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

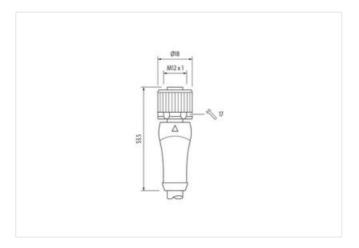
## **Link to Product**

## Illustration











stay connected



Product may differ from Image









Cable length	12 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12P
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	12 mm
Coding	L
Material contact	Copper alloy
No. of poles	5
Side 2	
Stripping length (jacket)	100 mm
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060327
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060327
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879856966
Packaging unit	1
Electrical data   Supply	
Operating voltage DC max.	63 V
Current operating per contact max.	12 A
Diagnostics	
Status indication LED	no
Installation   Connection	

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: 2024-05-18



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Jacket Color black Type of Certificate cURus  Amount stranding 1 Stranding 5 wires around Filler twisted  Filler yes wire arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable weigth 129,8 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 8,2 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 5  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 60 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Stripping length (jacket)	100 mm
Pegine of protection (EN IEC 60529)   IP65, IP67   Additional condition protection degrae   Inserted, screwed   Inserted   Ins	Width across flats	SW17
Additional condition protection degree   Inserted, screwed   Pollution Degree   3   3   3   3   3   3   3   3   3	Device protection   Electrical	
Pallet on Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60694-1) 1  Mechanical data   Material data  Coating locking Nickeled Material poulsing PUR  Locking material 2 me leasting PUR  Locking material 3 membed 5 meanted, screwed, Shaking protection  Environmental characteristics   Cimate Cooperating temperature man. 25 ° °C  Operating temperature man. 35 ° °C  Additional condition temperature range 30 expending on cable quality important installation notes  Note on strain roller 4 Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable less, and the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces  Conformity  Product standard IEC 61076-2-111  Installation   Cable were an arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable identification PO4  Cable Type 3  Printing color of wire insulation black (white isolation), white (isolation brown), white (solation black), white (gray is Jacket Color black (white isolation) white (solation brown), white (solation black), white (gray is Jacket Color power) arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable identification PO4  Cable of certificate cultures  Type of Certificate cu	Degree of protection (EN IEC 60529)	IP65, IP67
Reted sugs voltage Material group (IEC 60064+1) I Rechanical data   Material data  Mechanical data   Material data  Material positing Neckeled  Material positing PUR  Locking naterial Locking material  Mechanical data   Mounting data  Mounting membed  Environmental characteristics   Climatic  Poperating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on starin relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Afterifion: Observe the pormissible benefing radii when laying cables, as the IP protection class can be endangered by excessive benefing forces.  Conformity  Product standard IEC 61076-2-111  Installation   Cable  Uses a conformatical conformatical loads, e.g. by the usage of cable ties.  Amount attained   Cable   C	Additional condition protection degree	inserted, screwed
Material group (EC 698641)  Mechanical data   Material data  Coating looking   Nickeled   Material pasket   FKM   Material housing   PUR   Locking material   Zinc die casting   Mechanical data   Mounting data   Mounting method   Incerted, screwed, Shaking protection   Environmental characteristics   Climatic   Coperating temperature min.   -2.5 °C   Operating temperature max.   -8.5 °C   Additional condition temperature may   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 disas can be endangered by excessive bending forces.  Contomity   Product standard   EC 61076-2-111   Installation Cable   wire arrangement   gray 5, black 4, blue 3, white 2, brown 1   Cable identification   P04   Cable inflied   P04   Cable inflied   Disas   Printing color of wire insulation   black (white isolation), white (isolation brown), white (isolation black), white (gray is ubuck to color   Jubick Colo	Pollution Degree	3
Mechanical data   Material data   Macerial place   Coating looking   Nickeled   Material passed   FKM   Material passed   PUB   Cocking material   Committed   Coperating temperature min.   Cope	Rated surge voltage	1,5 kV
Coaling locking Nickeled FRM Material pasket FRM Material pasket FRM FRM Material busing PUB Locking material Zinc die-casting Mechanical data Mounting data Mounting method inserted, screwed, Shaking protection Fervioromental characteristics   Climatic Fervioromental characteristic	Material group (IEC 60664-1)	I
Material gasket FKM Material bousing PUR Locking material Zinc de-casting  Mechanical data   Mounting data  Mounting method Inserted, screwed, Shaking protection  Environmental characteristics   Climato  Caperating temperature mix. 25 °C Operating temperature max. 35 °C Additional condition temperature reaps  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product slandard EC 61076-2-111  Institution: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product slandard EC 61076-2-111  Institution: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product slandard EC 601076-2-111  Institution: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product slandard Poble  wire arrangement EC 61076-2-111  Institution: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  College identification Cable  wire arrangement P04  Cable Type Get directed Cable System 1  Stranding Stranding II 1  Stranding Stranding II 1  Stranding Stranding II 1  Stranding Stranding Stranding Stranding Stranding Stranding Stranding II 1  Stranding	Mechanical data   Material data	
Material gasket FKM Material housing PUR Locking material Zinc die-casting  Mechanical data   Mounting data  Mounting method Inserted, screwed, Shaking protection  Environmental characteristics   Climato  Coperating 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 branding radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product slandard Ec 61076-2-111  Institution   Cable  Wive arrangement PVA   PVA   Cable identification PVA   Cable Type 3  Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray is lacket Color black  Type of Certificate URBs   Certificate PVA   Cable weigh   129,8 g/m  Material galeket PVA   PVA   Cable weigh   129,8 g/m  Material proket   129,8 g/m	Coating locking	Nickeled
Material housing PUR Locking material Zinc de-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 rolled Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on banding radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ondangered by excessive bending forces.  Conformity  Product standard IEC 61076-2-111  Installation   Cable    wire arrangement gray 5, black 4, blue 3, white 2, brown 1 Cable identification P04 Cable Type 3  Printing oobr of wire insulation black (white isolation), white (isolation brown), white (isolation brown), white (isolation black), white (gray is Jacked Color Certificate Certificate Certificate Certificate P48  Amount stranding 1  Cable weigh 129,8 gm  Material jacket PUR  Shore hardness jacket 90 s. 8 Shore A  Freedom from impredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 2,3 mm  Caller diameter (jacket) 9.2 mm  Caller diameter insulation PP  Amount wires insulation PP  Amount wires insulation PP  Amount stranding 1  Caller diameter insulation PP  Amount stranding wire insulation PRP  Amount stranding wire insulation PRP  Dameter of single wire insulation PRP		FKM
Locking material Zinc die casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard IEC 61076-2-111  Installation   Cable  wire arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable identification Po4  Cable Type 3  3 Service of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray is Jacket Color)  Type of Certificate URBs  Type o	<del>-</del>	
Mechanical data   Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climate  Operating temperature min.		
Mounting method inserted, screwed, Shaking protection    Proviounmental characteristics   Climatic		
Environmental characteristics   Climatic Operating temperature min25 °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. Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity Product standard IEC 61076-2-111 Installation   Cable Wive arrangement gray 5, black 4, blue 3, white 2, brown 1 Cable identification P04 Cable Type 3 Printing color of wire insulation   black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray is Jacket Color black) Type of Certificate CURus Amount stranding 1 Filler yes wire arrangement gray 5, black 4, blue 3, white 2, brown 1 Cable weigh 129,8 g/m Material jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Material glacket PUR Material glacket PUR Material wire insulation PP Material wire insulation Dead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter diameter insulation PP Material wire insulation Dead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter diameter insulation Dead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter diameter insulation Dead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter diameter insulation Dead-free, cadmium-free, CFC-free, halogen-free, silicone-free Duter dinsulation Dead-free, cadmium-free, CFC-free, halogen-free, silico		inspired payaged Challing systemics
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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 strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard IEC 61076-2-111  Installation   Cable  Wire arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable dentification P04  Cable Type 3  Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation black) and isolation black).  Type of Certificate Culor  Type of Certificate Culor  Type of Certificate Culor  Stranding 1  Stranding 5 wires around Filler twisted  Filler yes  wire arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable weigh 129,8 g/m  Material jacket PUR  Shore hardness jacket PUR  Amount stranding 129,8 g/m  Material wire insulation PP  Amount wires 5  Outer-diameter (jacket) 8,2 mm  Tolerance outer diameter (sheath) 4,5 %  Amount stranders insulation PP  Amount wires 5  Outer diameter insulation 1,2 3,3 mm  Outer diameter insulation 1,2 3,5 mm  Outer diameter insulation 1,2 3,5 mm  Duter diameter insulation 1,2 3,5 mm  Duter diameter insulation 1,2 3,5 mm  Outer diameter reliameter (sheath) 1,2 5 %  Amount strands wire insulation 1,2 3,5 mm  Duter diameter reliameter or insulation 1,2 5 mm  Duter diameter reliameter or insulation 1,2 5 mm  Duter diameter insulation 1,2 5 mm  Duter diameter insulation 1,2 5 mm  Duter diameter of views wire insulation 1,2 5 mm  Duter diameter insulation 1,2 5 mm  Duter diameter of views wire insulation 1,2 5 mm  Duter diameter of views wire insulation 1,2 5 mm  Duter diameter of views wire insulation 1,2 5 mm  Duter diameter of	Environmental characteristics   Climatic	
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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard IEC 61076-2-111  Installation   Cable  Wire arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable identification P04  Cable Type 3  Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray is Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 5 wires around Filler twisted  Filler yes  wire arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable weight 129.8 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) ± 5 %  Material wire insulation PP  Amount wires 5  Outer diameter insulation 2,3 mm  Outer diameter insulation 1  Government Shore or insulation 1  Government Shore Outer diameter (sheath) 1  Government Shore or insulation 1  Government Shore Order Shore		
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Product standard IEC 61076-2-111  Installation   Cable  wire arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable identification P04  Cable Type 3  Printing color of wire insulation black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray in Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 5 wires arrangement gray 5, black 4, blue 3, white 2, brown 1  Cable weigth 129,8 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 8,2 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 5  Outer diameter tolerance core insulation 1944 (white isolation), white (isolation brown), white (isolation black), white (gray in Jacket) 1945 (white isolation brown) white (isolation brown), white (isolation black), white (gray in Jacket) 1945 (white isolation) pre-  Outer diameter (jacket) 2,3 mm  Outer diameter tolerance core insulation 45 %  Shore hardness wire insulation 1946 (white isolation), white (isolation brown), white (isolation black), white (gray in Amount strands (wire) 1946 (white isolation), white (isolation brown), white (isolation brown), white (isolation black), white (gray in Amount strands (wire) 1946 (white isolation), white (isolation brown), white (isolation brown), white (isolation black), white (gray in Amount strands (wire) 1946 (white isolation), white (isolation brown), white (isolation brown), white (isolation black), white (gray in Amount strands (wire) 1946 (wire) 1946 (white isolation), white (isolation brown), white (isolation black), white (gray in Amount strands (wire) 1946 (wire) 1946 (wire) 1946 (white isolation), white (isolation brown), white (isolation black), white (gray in Amount strands (wire) 1946 (w	Note on bending radius	
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Cable Type 3 Printing color of wire insulation black (white isolation), white (isolation brown), white (isolation brown), white (isolation black), white (gray is Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 5 wires around Filler twisted Filler yes wire arrangement gray 5, black 4, blue 3, white 2, brown 1 Cable weigth 129,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 8,2 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 2,3 mm Outer diameter tolerance core insulation 5 % Douter diameter insulation 60 ± 5 Shore D Ingredient freeness wire insulation black (white isolation), white (isolation brown), white (isolation brown), white (isolation black), white (gray isolater) Amount strands (wire) 84 Diameter of single wires 0,15 mm		
Printing color of wire insulation black (white isolation), white (isolation brown), white (isolation black), white (gray is Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 5 wires around Filler twisted Filler yes wire arrangement gray 5, black 4, blue 3, white 2, brown 1 Cable weigth 129,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 8,2 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 2,3 mm Outer diameter tolerance core insulation 50 ± 5 Shore D Ingredient freeness wire insulation black (white isolation), white (isolation brown), white (isolation brown), white (isolation black), white (gray is Amount strands (wire) 84 Diameter of single wires 0,15 mm		
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Cable weigth  129,8 g/m  Material jacket  PUR  Shore hardness jacket  90 ± 5 Shore A  Freedom from ingredients (jacket)  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket)  8,2 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  5  Outer diameter insulation  2,3 mm  Outer diameter tolerance core insulation  \$\pmathrm{\pmathrm	Filler	yes
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Material wire insulation       PP         Amount wires       5         Outer diameter insulation       2,3 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       60 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Printing color of wire insulation       black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray is amount strands (wire)         Amount strands (wire)       84         Diameter of single wires       0,15 mm	Outer-diameter (jacket)	8,2 mm
Amount wires 5  Outer diameter insulation 2,3 mm  Outer diameter tolerance core insulation ±5 %  Shore hardness wire insulation 60 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Printing color of wire insulation black (white isolation), white (isolation brown), white (isolation black), white (gray is Amount strands (wire) 84  Diameter of single wires 0,15 mm	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation  Outer diameter tolerance core insulation  \$\frac{\pmathcal{D}}{\pmathcal{D}}\$ \text{ M}\$  Shore hardness wire insulation  \$\frac{\pmathcal{D}}{\pmathcal{D}}\$ \text{ Shore D}  Ingredient freeness wire insulation  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Printing color of wire insulation  black (white isolation), white (isolation brown), white (isolation brown), white (gray is amount strands (wire))  84  Diameter of single wires  0,15 mm	Material wire insulation	PP
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Amount strands (wire) 84 Diameter of single wires 0,15 mm	Ingredient freeness wire insulation	
Diameter of single wires 0,15 mm	Printing color of wire insulation	black (white isolation), white (isolation blue), white (isolation brown), white (isolation black), white (gray isolation
·	Amount strands (wire)	84
Conductor crosssection (wire) 1,5 mm <sup>2</sup>	Diameter of single wires	0,15 mm
	Conductor crosssection (wire)	1,5 mm²

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: 2024-05-18



Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	1000 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	13,5 A
Electrical resistance line constant wire	13,3 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	10 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	10 kV @ 60 s
Min. operating temperature (static)	-50 °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	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
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
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min