

## M12 female 90° A-cod. with cable

PUR 3x0.75 gy UL/CSA+drag ch. 1.5m

Female 90° M12, 3-pole 2× LED (PNP)

Invers-polarity protection

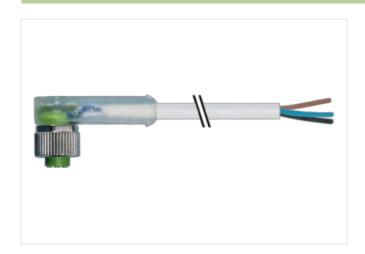
Plastic housings with good resistance against chemicals and oils.

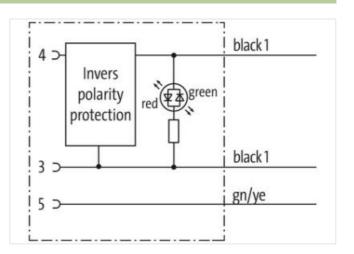
The resistance to aggressive media should be individually tested for your application. Further details on request.

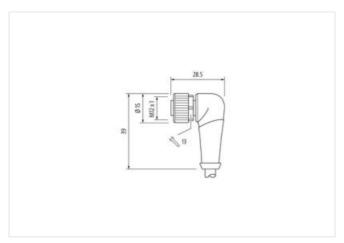
Further cable lengths on request.

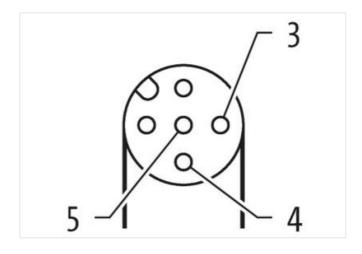
## **Link to Product**

## Illustration









Product may differ from Image





1,5 m Cable length

Side 1

Tightening torque 0,6 Nm



stay connected

Family construction form M12 Thread M12 1 Thread M12 1 M12 1 Mariana M12 M13	Mounting method	inserted, screwed
Main   Michael	Family construction form	·
	Thread	
Coding         A           Material         PUR           With across fats         SW13           Degree of protection (EN IEC 60529)         IPSS, IPORK, IPS7           Commercial date           ECLASS 6.0         27279218           ECLASS 6.1         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27279218           ECLASS 7.0         2729218           ECLASS 7.0         2729218           ECLASS 7.0         2729218           ECLASS 7.0         2706311           ECLASS 7.0         2706311           ECLASS 7.0         2706311           ECLASS 7.1         27060311           ECLASS 7.1         2706011           ECLASS 7.1         2706011           ECLASS 7.2         2706011<	suitable for corrugated tube (internal Ø)	10 mm
Meterial         PLR           Wittlina prose for protection (EN IEC 60529)         IPES, IPE6K, IPE7           Commercial data         February 18           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         2706011           ECLASS-10.1         2706011           ECLASS-11.2         2706011           ECLASS-12.0         2706011           ECLASS-10.1         2706011           ECLASS-10.1         2706011           ECLASS-10.2         2706011           ECLASS-10.3         2706011           ECLASS-10.4         2706011           ECLASS-10.1         2706011           ECLASS-10.2         2706011           ECLASS-10.3         2706011           ECLASS-10.4         2706011           ECLASS-10.5         2706011           ECLASS-10.6         26044290           GTN         4048879462099           Peckaging unit         1           Electrical         27.9 V           Operating voltage DC mix.         27.9 V           Op	Coding	A
Pege of protection (EN IEC 60529)	Material	PUR
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-9.1.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         ECO01855           ECLASS-12.0         ECO01850           ECLASS-12.0         ECO01850           ECO01800         ECO01800	Width across flats	SW13
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-9.1.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         ECO01855           ECLASS-12.0         ECO01850           ECLASS-12.0         ECO01850           ECO01800         ECO01800	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
ECLASS-6.1 2779218 ECLASS-7.0 2779218 ECLASS-9.0 2779218 ECLASS-9.0 27060311 ECLASS-11.1 27060311 ECLASS-11.1 27060311 ECLASS-11.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-10.0 EC00185.5 Eustoms tariff number 85444290 GTIN 4048079462099 Packaging unit 1 Electrical data   Supply  Operating voltage DC 22 4 V  Operating voltage DC min. 20,4 V  Operating voltage DC min. 20,4 V  Operating voltage DC min. 27.6 V  Operating voltage DC min. 30 V  Current operating per contact max. 4 A  Daylor operating voltage DC min. 40 V  Operating temperature min. 425 °C  Operating temperature min. 45 °C  Operating temperature max. 40 SP °C  Operating temperature max.		
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ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         EC01955           Decisions sairfl number         85444290           GTN         4048879462999           Packaging unit         1           Electrical data   Supply         1           Operating voltage DC         24 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, k/v           Mechanical data   Mounting data           Machanical data   Mounting data           Macharial screw connection         Zinc die-casting		
ECLASS-8.0 2729218  ECLASS-9.0 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ELECHAS 11.1 404887346299  Packaging unit 1  Electrical data   Supply  Operating voltage DC 0 24 Y  Operating voltage DC min. 20,4 Y  Operating voltage memperature min. 25 °C  Operating voltage DC Min. 20, by the usage of cable ties. 20, voltage mediage voltage voltage as the iP protection class can be option under voltage voltag		
ECLASS-9.0         27080311           ECLASS-9.0.1         27080311           ECLASS-11.1         27080311           ECLASS-12.0         27080311           ECLASS-12.0         EC001855           Ususons tariff number         85444290           GTIN         4048879482099           Packaging min         1           Electrical datal Suppty         Operating voltage DC         24 V           Operating voltage DC max.         20.4 V           Operating voltage DC max.         20.4 V           Operating voltage DC max.         27.6 V           Operating voltage pc contact max.         4 A           Diagnostics         Status indication LED           Installation   Connection         Wounting set         M12 x 1           Device protection   Electrical         Electrical Rectrical           Installation   Connection         Wounting set         M2 x 1           Additional condition protection degree         3           Pollution Degree         3           Rated surge voltage         0.8 kV           Mechanical data   Material data         Coding forcking material           Material screw connection         Zinc die-casting <t< td=""><td></td><td></td></t<>		
ECLASS-10.1         27060311           ECLASS-11.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           Customs tariff rumber         85444290           GTIN         404887462099           Packaging unit         1           Electrical data   Supply         Voperating voltage DC mon.         20 4 V           Operating voltage DC min.         20 4 V           Operating voltage DC min.         20 4 V           Operating voltage DC max.         27.6 V           Operating voltage DC min.         4 A           Operating portogen or contact max.         4 A           Volument operating per contact max.         3 B V           Actional operating per contact max.         3 B V           <		
ECLASS-11.1         27080311           ECLASS-12.0         27080311           ECHASS-10.0         ECO01855           customs tariff number         85444290           GTIN         4048873462099           Packaging unit         1           Electrical data   Supply           Operating voltage DC         24 V           Operating voltage DC min.         20,4 V           Operating voltage DC min.         20,4 V           Operating voltage DC min.         24 V           Operating voltage DC min.         25 V           Operating voltage DC min.         26 V           Operating voltage DC min.         4 A           Diagnostics           Status indication LED         green, red           Installation   Connection           Mounting set           M12 x 1           Device protection   Electrical           Additional condition protection degree           Additional protection degree           Installation protection degree           Installation protection degree           Alectrical Substance of Installation protection degree           Coating obking         Nickeled <tr< td=""><td></td><td></td></tr<>		
ECILASS-12.0         27060311           ETIM-5.0         EC001855           customs taff number         8544290           GTIN         4048879462099           Packaging unkt         1           Electrical data   Supply         Fleetrical data   Supply           Operating voltage DC         24 V           Operating voltage DC min.         20.4 V           Operating voltage DC min.         20.4 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           Politorion Degree         3           Rated surge voltage         0.8 kV           Mechanical data   Material data           Coating Jocking         Nickelod           Coating Jocking         Nickelod           Coating of titing         nickel plated           Locking material         Zinc die-casting           Material a fe		
ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879462099           Packaging unit         1           Electrical data   Supply         Very Coperating voltage DC           Operating voltage DC min.         20.4 Y           Operating voltage DC max.         27.6 V           Operating voltage DC max.         27.6 V           Operating voltage DC max.         4 A           Diagnostics         Very Coperating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Diagnostics         Very Coperating voltage DC (UL-listed)         30 V           Installation   Connection         Muniting set         M12 x 1           Device protection   Electrical         Very Coperating voltage         3           Pollution Degree         3         3           Rated surge voltage         0.8 kV           Mechanical data   Material data (Social protection)         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental c		
customs tariff number 85444290 GTIN 4048879462099 Packaging unit 1  Electrical data   Supply  Operating voltage DC 24 V  Operating voltage DC min. 20,4 V  Operating voltage DC min. 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 Read surge voltage on 8 kV  Mechanical data   Material data  Coating locking Nickeled  Coating lotking nickel plated  Locking material  Locking material  Meunting method inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mechanical data   Mounting data  Mechanical dhata   Mounting data  Mechanical dhata   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Deperating temperature min25 °C  Operating temperature min25 °C  Operating temperature man. 45 °C  Additional condition netperature range depending on cable quality  Important installation notes  Note on bending radius  Attention: Cheserve the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.		
GTIN 4048879462099 Packaging unit 1  Electrical data   Supply  Operating voltage DC 24 V  Operating voltage DC min. 20,4 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, 38 kV  Mechanical data   Material data  Coating of fitting nickel plated  Locking material 2inc disc-asting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Additional condition temperature max. 85 °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.		
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 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 3 Rated surge voltage 0.8 kV  Mechanical data   Material data Coating locking Nickeled Coating of litting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics   Climatic 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 strain relief Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable ties.		
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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  Coating locking nickel plated  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection 2 Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.		,
Current operating per contact max.  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  Coating locking nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Methanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  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.		<u> </u>
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  Coating locking initing initiag i		
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  Coating locking Nickeled  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  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 Protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Current operating per contact max.	4 A
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  Coating locking Nickeled  Coating locking Nickeled  Coating of fitting nickel plated Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  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.	Diagnostics	
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Mechanical data   Material data Coating locking Nickeled Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  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.	Pollution Degree	3
Coating locking  Coating of fitting  nickel plated  Locking material  Zinc die-casting  Material screw connection  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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Rated surge voltage	0,8 kV
Coating of fitting nickel plated Locking material Zinc die-casting  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  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.	Mechanical data   Material data	
Locking material  Zinc die-casting  Material screw connection  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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Coating locking	Nickeled
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Material screw connection  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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Locking material	Zinc die-casting
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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Material screw connection	
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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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	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.	Operating temperature min.	
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.	Operating temperature max.	85 °C
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.	Additional condition temperature range	depending on cable quality
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.		
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.		Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties
endangered by excessive bending forces.		Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Installation   Cable		endangered by excessive bending forces.
	Installation   Cable	

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: 2024-05-04



stay connected

Cable identification	236
Cable Type	3
Printing color of wire insulation	white (isolation black)
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Cable weigth	56,1 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)	5.9 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
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 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
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 -	· ·
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
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
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
Torsion speed	35 cycles/min