

## M8 male 90° A-cod./ MSUD valve plug CI-9.4mm small

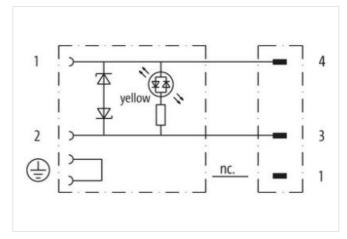
PUR 3x0.34 bk UL/CSA+drag ch. 1m

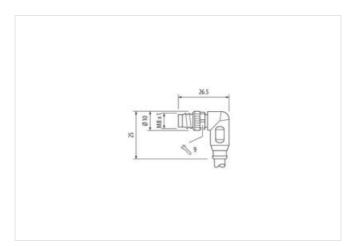
MSUD Further cable lengths on request. Form CI (9.4 mm) 4-pole Male M8 90° 3-pole 24 V AC  $\pm 20\%$  / DC  $\pm 25\%$  Z-Diode + LED Art-No. 7005 - M8 Lite - (plastic hexagonal screw) on request

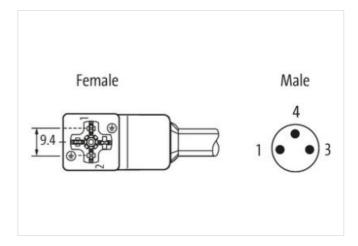
## **Link to Product**

## Illustration



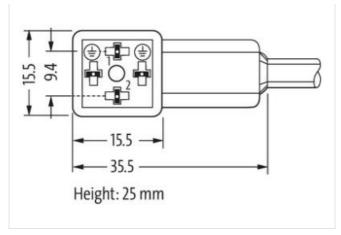








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Product may differ from Image

Side 1         Tightening torque         0.4 Nm           Mounting method         inserted, screwed           Coaling contact         silver-plated           Family construction form         MSUD           Thread         M3           suitable for corrugated tube (internal Ø)         6.5 mm           Material contact         Copper alloy           Motorial and PUR         No. of poles           No. of poles         4           Tightening torque           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Material contact         Copper alloy           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Connected data         ECLASS 6.0         27279218           ECLASS 8-0         27279218         ECLASS 8-0         27279218           ECLASS 9-0         27060312         ECLASS 1-1         27060312           ECLASS 1-1.1         27060312         ECLASS 1-1         27060312           ECLASS 1-2.0         27060312         ECLASS 1-1         404887	Cable length	1 m
Mounting method         Inserted, screwed           Coating contact         silver-plated           Family construction form         MSUD           Thread         M3           suitable for corrugated tube (internal 0)         6.5 mm           Material contact         Copper alloy           Material         PUR           No. of poles         4           Side 2           Tightening torque           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial date           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         ECO19355           Coustoms tariff number         85444290	Side 1	
Coaling contact         silver-plated           Family construction form         MSUD           Thread         M3           suitable for corrugated tube (internal 0)         6.5 mm           Material contact         Copper alloy           Material         PUR           No. of poles         4           Side 2           Tightening torque         0.4 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material contact         Copper alloy           Material contact         Copper alloy           Material contact         PBT           No. of poles         3           Width across flats         SW9           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         2760312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312	Tightening torque	0,4 Nm
Family construction form         MSUD           Thread         M3           suitable for corrugated tube (internal Ø)         6,5 mm           Material onflact         Copper alloy           Material         PUR           No. o poles         4           Side 2           Tightening torque         0,4 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial date           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         85444290           GTIN         4048879118774           Packaging unit         1           Electrical	Mounting method	inserted, screwed
Thread         M3           suitable for corrugated tube (internal Ø)         6,5 mm           Material contact         Copper alloy           Material         PUR           No. of poles         4           Side 2           Tightening torque         0,4 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060312           ECLASS-9.0         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-17.0         ECO1855           customs tariff number         8544290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC min.	Coating contact	silver-plated
suitable for corrugated tube (internal Ø)         6,5 mm           Material contact         Copper alloy           Material         PUR           No. of poles         4           Side 2           Tightening torque         0,4 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial data         ECLASS-6.0           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-1.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         ECO01855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC min.         19.2 V	Family construction form	MSUD
Material contact         Copper alloy           Material         PUR           No. of poles         4           Side 2           Tightening torque         0.4 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 X 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC min.         19,2 V	Thread	M3
Material         PUR           No. of poles         4           Side 2         Tightening torque         0.4 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material and PBT         No. of poles           3         Width across flats           SW9         Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         2760311           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tartif number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC min.         19,2 V	suitable for corrugated tube (internal Ø)	6,5 mm
No. of poles         4           Side 2         Tightening torque         0,4 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial data         ECLASS-6.0           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC01855           Customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC min.         19,2 V	Material contact	Copper alloy
Side 2           Tightening torque         0,4 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial date         ECLASS-6.0           ECLASS-6.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC01855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC min.         19,2 V	Material	PUR
Tightening torque 0,4 Nm  Mounting method inserted, screwed  Coating contact gold plated  Family construction form M8  Thread M8 x 1  Material contact Copper alloy  Material PBT  No. of poles 3  Width across flats SW9  Commercial data  ECLASS-6.0 27279218  ECLASS-7.0 27279218  ECLASS-7.0 27279218  ECLASS-9.0 27279218  ECLASS-9.0 27060311  ECLASS-10.1 27060312  ECLASS-11.1 27060312  ECLASS-12.0 27060312  ECLASS-12.0 27060312  ECLASS-12.0 27060312  ECLASS-10 ECON1855  customs tariff number 85444290  GTIN 4048879118774  Packaging unit 1  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC 24 V	No. of poles	4
Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	Side 2	
Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	Tightening torque	0,4 Nm
Family construction form         M8           Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	Mounting method	inserted, screwed
Thread         M8 x 1           Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27729218           ECLASS-9.0         27060311           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19.2 V	Coating contact	gold plated
Material contact         Copper alloy           Material         PBT           No. of poles         3           Width across flats         SW9           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	Family construction form	M8
Material       PBT         No. of poles       3         Width across flats       SW9         Commercial data         ECLASS-6.0       27279218         ECLASS-7.0       27279218         ECLASS-8.0       27279218         ECLASS-9.0       27060311         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879118774         Packaging unit       1         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	Thread	M8 x 1
No. of poles         3           Width across flats         SW9           Commercial data         ECLASS-6.0           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	Material contact	Copper alloy
Width across flats         SW9           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	Material	PBT
Commercial data         ECLASS-6.0       27279218         ECLASS-7.0       27279218         ECLASS-8.0       27279218         ECLASS-9.0       27060311         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879118774         Packaging unit       1         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	No. of poles	3
ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879118774 Packaging unit 1  Electrical data   Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V	Width across flats	SW9
ECLASS-7.0       27279218         ECLASS-8.0       27279218         ECLASS-9.0       27060311         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879118774         Packaging unit       1         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	Commercial data	
ECLASS-8.0       27279218         ECLASS-9.0       27060311         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879118774         Packaging unit       1         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	ECLASS-6.0	27279218
ECLASS-9.0 27060311  ECLASS-10.1 27060312  ECLASS-11.1 27060312  ECLASS-12.0 27060312  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879118774  Packaging unit 1  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	ECLASS-7.0	27279218
ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879118774         Packaging unit       1         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	ECLASS-8.0	27279218
ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879118774         Packaging unit       1         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	ECLASS-9.0	27060311
ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879118774         Packaging unit       1         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	ECLASS-10.1	27060312
ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879118774  Packaging unit 1  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	ECLASS-11.1	27060312
customs tariff number         85444290           GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	ECLASS-12.0	27060312
GTIN         4048879118774           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	ETIM-5.0	EC001855
Packaging unit 1  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	customs tariff number	85444290
Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	GTIN	4048879118774
Operating voltage AC 24 V Operating voltage AC min. 19,2 V	Packaging unit	1
Operating voltage AC min. 19,2 V	Electrical data   Supply	
	Operating voltage AC	24 V
Operating voltage AC max. 28,8 V	Operating voltage AC min.	19,2 V
	Operating voltage AC max.	28,8 V

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Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	15 mA
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	
	inserted, screwed 3
Pollution Degree	0,8 kV
Rated surge voltage	U,8 KV
Material group (IEC 60664-1)	·
Additional suppressor	Diode, Z-Diode
Mechanical data   Material data	
Coating locking	Nickeled
Color housing	black
Material gasket	PUR
Material housing	Plastic
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed
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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-114 (M8)
Installation   Cable	
Cable identification	633
Cable Type	3
	•
Jacket Color	black
Jacket Color Type of Certificate	black cURus
Type of Certificate  Amount stranding	cURus
Type of Certificate  Amount stranding  Stranding	cURus 1 3 wires twisted
Type of Certificate  Amount stranding  Stranding  wire arrangement	cURus  1 3 wires twisted brown, black, blue
Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth	cURus 1 3 wires twisted
Type of Certificate  Amount stranding  Stranding  wire arrangement	cURus  1 3 wires twisted brown, black, blue 29,7 g/m
Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket	cURus  1 3 wires twisted brown, black, blue 29,7 g/m PUR
Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	cURus  1 3 wires twisted  brown, black, blue  29,7 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)	cURus  1 3 wires twisted brown, black, blue 29,7 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,1 mm
Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)	cURus  1 3 wires twisted brown, black, blue 29,7 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm ± 5 %
Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation	cURus  1 3 wires twisted brown, black, blue 29,7 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm ± 5 % PP
Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)	cURus  1 3 wires twisted brown, black, blue 29,7 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm ± 5 %

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Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
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	6 A
Electrical resistance line constant wire	57 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	UL 1581 § 1090   UL 1581 § 1100 FT2   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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min