

## M12 male 90° / M12 female 90° A-cod. shielded

PUR 4x0.5+2x0.25 shielded gn UL/CSA+drag ch. 20m

Cube67
Male 90° – female 90°
M12 – M12, 6-pole
A-coded
shielded
Hybrid cable

Plastic housings with good resistance against chemicals and oils.

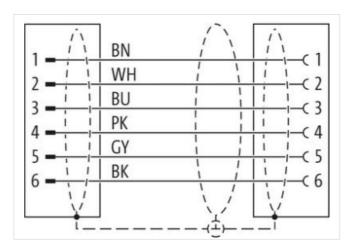
The resistance to aggressive media should be individually tested for your application. Further details on request.

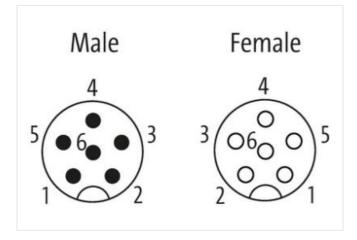
Further cable lengths on request.

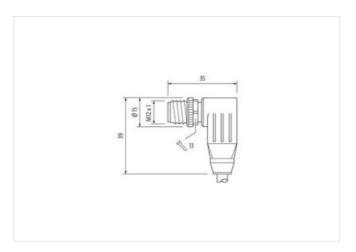
## **Link to Product**

## Illustration



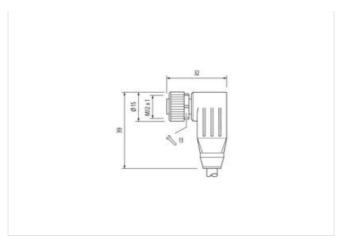








stay connected



Product may differ from Image





Side 1         Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Coating contract         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Width across flats         SW13           Side 2           Tightening torque           Mounting method         inserted, scrowed           Coating contact         gold plated           Family construction form         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial date         Copper alloy           ECLASS-6.0         27061801           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-1.1         27060307           ECLASS-1.2.0         27060307           ECLASS-1.2.0         27060307           ETIM-5.0         EC04855           customs tariff number         85444290	Cable length	20 m
Mounting method   Inserted, screwed	Side 1	
Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Width across flats         SW13           Side 2           Tightening torque           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         25060307           ETIM-5.0         EC01855	Tightening torque	0,6 Nm
Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Width across flats         SW13           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data         Copper alloy           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-11.1         27060307           ECUASS-12.0         27060307           ECUASS-11.1 <t< td=""><td>Mounting method</td><td>inserted, screwed</td></t<>	Mounting method	inserted, screwed
Thread M12 x 1 Coding A Material contact Copper alloy No. of poles 6 Width across flats SW13  Side 2 Tightening torque 0,6 Nm Mounting method inserted, screwed Coating contact gold plated Family construction form M12 Thread M12 x 1 Coding A Material contact Copper alloy No. of poles 6  Commercial data  ECLASS-6.0 27061801 ECLASS-6.1 27060307 ECLASS-9.0 27060307 ECLASS-9.0 27060307 ECLASS-11.1 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-11.1 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-13.1 27060307 ECLASS-14.2 27060307 ECLASS-15.0 27060307 ECLASS-16.0 27060307 ECLASS-17.0 27060307 ECLASS-18.0 27060307 ECLASS-19.0 27060307 ECLASS-19.0 27060307 ECLASS-10.0 27060307 ECLASS-10.0 27060307 ECLASS-11.1 27060307 ECLASS-12.0 27060307 ECLASS-12.0 27060307 ECLASS-13.0 27060307 ECLASS-14.2 27060307 ECLASS-15.0 27060307 ECLASS-16.0 27060307 ECLASS-17.0 27060307 ECLASS-18.0 27060307 ECLASS-19.0 27060307	Coating contact	gold plated
Coding         A           Material contact         Copper alloy           No. of poles         6           Width across flats         SW13           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECUASS-12.0         27060307           ECUASS-12.0         27060307	Family construction form	M12
Material contact         Copper alloy           No. of poles         6           Width across flats         SW13           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data         ECLASS-6.0           ECLASS-6.0         27061801           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-10.1         27060307           ECLASS-10.1         27060307           ECLASS-10.1         27060307           ECLASS-10.1         27060307           ECLASS-10.1         27060307           EXIDENTIFY Construc	Thread	M12 x 1
No. of poles         6           Width across flats         SW13           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         85444290	Coding	A
Width across flats         SW13           Side 2         Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data           ECLASS-6.0         27061801           ECLASS-7.0         27060307           ECLASS-7.0         27060307           ECLASS-9.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECHASS-12.0         27060307           ECHASS-12.0         27060307           ECHASS-12.0         27060307           ECHASS-12.0         27060307           ECUASS-12.0         27060307           ECUASS-12.0         27060307           Ecuations tariff number         85444290		Copper alloy
Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECIASS-12.0         27060307           ETIM-5.0         EC01855           customs tariff number         85444290	No. of poles	6
Tightening torque 0,6 Nm  Mounting method inserted, screwed  Coating contact gold plated  Family construction form M12  Thread M12 x 1  Coding A  Material contact Copper alloy  No. of poles 6  Commercial data  ECLASS-6.0 27061801  ECLASS-6.1 27060307  ECLASS-7.0 27060307  ECLASS-9.0 27060307  ECLASS-9.0 27060307  ECLASS-1.1 27060307  ECLASS-1.2 27060307  ECLASS-1.2 27060307	Width across flats	SW13
Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data         ECLASS-6.0           ECLASS-6.1         27061801           ECLASS-7.0         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         85444290	Side 2	
Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         85444290	Tightening torque	0,6 Nm
Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         85444290	Mounting method	inserted, screwed
Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         85444290	Coating contact	gold plated
Coding         A           Material contact         Copper alloy           No. of poles         6           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECIASS-12.0         27060307           ECIMS-5.0         85444290	Family construction form	M12
Material contact         Copper alloy           No. of poles         6           Commercial data         ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-10.1         27060307           ECLASS-12.0         27060307           ECLASS-10.1         27060307           ECLASS-10.1         27060307           ECLASS-10.0         27060307	Thread	M12 x 1
No. of poles       6         Commercial data         ECLASS-6.0       27061801         ECLASS-6.1       27060307         ECLASS-7.0       27060307         ECLASS-8.0       27060307         ECLASS-9.0       27060307         ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	Coding	A
Commercial data         ECLASS-6.0       27061801         ECLASS-6.1       27060307         ECLASS-7.0       27060307         ECLASS-8.0       27060307         ECLASS-9.0       27060307         ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	Material contact	Copper alloy
ECLASS-6.0 27061801  ECLASS-6.1 27060307  ECLASS-7.0 27060307  ECLASS-8.0 27060307  ECLASS-9.0 27060307  ECLASS-10.1 27060307  ECLASS-11.1 27060307  ECLASS-12.0 27060307  ECLASS-12.0 27060307  ECLASS-12.0 27060307	No. of poles	6
ECLASS-6.1       27060307         ECLASS-7.0       27060307         ECLASS-8.0       27060307         ECLASS-9.0       27060307         ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	Commercial data	
ECLASS-7.0       27060307         ECLASS-8.0       27060307         ECLASS-9.0       27060307         ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	ECLASS-6.0	27061801
ECLASS-8.0       27060307         ECLASS-9.0       27060307         ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	ECLASS-6.1	27060307
ECLASS-9.0       27060307         ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	ECLASS-7.0	27060307
ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	ECLASS-8.0	27060307
ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	ECLASS-9.0	27060307
ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290	ECLASS-10.1	27060307
ETIM-5.0 EC001855 customs tariff number 85444290		27060307
customs tariff number 85444290	ECLASS-12.0	27060307
	ETIM-5.0	EC001855
GTIN 4048879139939	customs tariff number	85444290
	GTIN	4048879139939

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: 2024-06-26



stay connected

Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Device protection   Electrical	
	IDOS IDOS
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Coating locking	Nickeled
Material gasket	FKM
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
- Note on strain relief	
	Attention: Observe the permissible handing radii when leving achles, as the ID protection class can be
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.
Note on bending radius  Installation   Cable	
-	
Installation   Cable	endangered by excessive bending forces.
Installation   Cable wire arrangement	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black
Installation   Cable wire arrangement Cable identification	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black 802
Installation   Cable wire arrangement Cable identification Function cable	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black  802  Hybrid, Signal, Data
Installation   Cable wire arrangement Cable identification Function cable Jacket Color	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black  802  Hybrid, Signal, Data  green
Installation   Cable wire arrangement Cable identification Function cable Jacket Color Type of Certificate	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black 802  Hybrid, Signal, Data green cURus
Installation   Cable wire arrangement Cable identification Function cable Jacket Color Type of Certificate Amount stranding	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black  802  Hybrid, Signal, Data  green  cURus  1
Installation   Cable wire arrangement Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black  802  Hybrid, Signal, Data  green  cURus  1  2 wires twisted
Installation   Cable wire arrangement Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2)	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black  802 Hybrid, Signal, Data green cURus 1 2 wires twisted 1
Installation   Cable wire arrangement Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2)	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black  802 Hybrid, Signal, Data green cURus 1 2 wires twisted 1 4 wires with Stranding combination with 3 Filler twisted
Installation   Cable wire arrangement Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type)	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black  802 Hybrid, Signal, Data green cURus 1 2 wires twisted 1 4 wires with Stranding combination with 3 Filler twisted copper braid, tinned
Installation   Cable wire arrangement Cable identification Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage)	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black  802 Hybrid, Signal, Data green cURus  1 2 wires twisted  1 4 wires with Stranding combination with 3 Filler twisted copper braid, tinned  80 %
Installation   Cable  wire arrangement  Cable identification  Function cable  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black 802 Hybrid, Signal, Data green cURus 1 2 wires twisted 1 4 wires with Stranding combination with 3 Filler twisted copper braid, tinned 80 % Fleece
Installation   Cable  wire arrangement  Cable identification  Function cable  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black  802 Hybrid, Signal, Data green cURus 1 2 wires twisted 1 4 wires with Stranding combination with 3 Filler twisted copper braid, tinned  80 % Fleece yes
Installation   Cable  wire arrangement  Cable identification  Function cable  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler  wire arrangement	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black 802  Hybrid, Signal, Data green cURus 1 2 wires twisted 1 4 wires with Stranding combination with 3 Filler twisted copper braid, tinned 80 % Fleece yes (gray, pink), blue, white, brown, black
Installation   Cable  wire arrangement  Cable identification  Function cable  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler  wire arrangement  Cable weigth	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black 802  Hybrid, Signal, Data green cURus 1 2 wires twisted 1 4 wires with Stranding combination with 3 Filler twisted copper braid, tinned 80 % Fleece yes (gray, pink), blue, white, brown, black 77 g/m
Installation   Cable  wire arrangement  Cable identification  Function cable  Jacket Color  Type of Certificate  Amount stranding  Stranding  Amount stranding (type 2)  Stranding (type 2)  Cable shielding (type)  Cable shielding (coverage)  Banding  Filler  wire arrangement  Cable weigth  Material jacket	endangered by excessive bending forces.  (gray, pink), blue, white, brown, black 802 Hybrid, Signal, Data green cURus 1 2 wires twisted 1 4 wires with Stranding combination with 3 Filler twisted copper braid, tinned 80 % Fleece yes (gray, pink), blue, white, brown, black 77 g/m PUR

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: 2024-06-26



stay connected

Material wire insulation	PP
Amount wires	4
Outer diameter insulation	1,4 mm
Outer diameter tolerance core insulation	±5%
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	64
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,5 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
	PP
Material wire insulation (Data)	
Outer diameter wire insulation (Data)	1,1 mm
Tolerance outer diameter wire insulation (data)	
Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount wires (Data)	2
Amount strands wire (Data)	32
Diameter of single wires (Data)	0,1 mm
Conductor crosssection wire (Data)	0,25 mm <sup>2</sup>
Material conductor wire (Data)	Stranded copper wire, bare
Wire conductor type (Data)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	6,3 A
Current load capacity min. Wire (Data)	3,2 A
Electrical resistance line constant wire	39 Ω/km @ 20 °C
Electrical resistance coating wire (Data)	79 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	1,5 kV @ 60 s
Electric inductivity line constant	0,65 mH/km
Electrical capacity line constant (wire - wire)	63000 pF/km
Power frequency withstand voltage (wire - jacket)	1,5 kV @ 60 s
AC withstand voltage (wire - shield)	1,2 kV @ 60 s
Isolation resistance	2000 MΩ × km
Min. operating temperature (static)	-50 °C
Max. operating temperature (fixed)	90 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
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)	10 m @ 25 °C
Travel speed (C-track)	2 m/s @ 25 °C
Torsion stress	± 180 °/m