

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

PUR 4x0.5+2x0.25 shielded gn UL/CSA+drag ch. 6.5m

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

Plastic housings with good resistance against chemicals and oils.

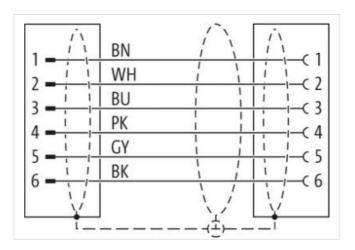
The resistance to aggressive media should be individually tested for your application. Further details on request.

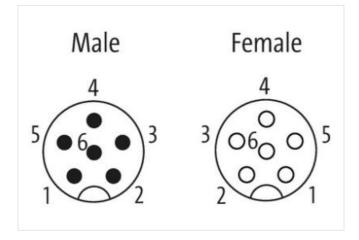
Further cable lengths on request.

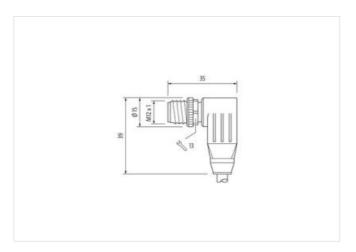
Link to Product

Illustration



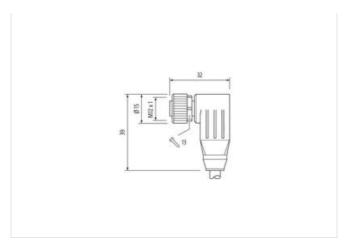








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Product may differ from Image





Cable length	6,5 m
Side 1	
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
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
GTIN	4048879140065



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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	
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)	I
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
·	Ministral
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 bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation Cable	
wire arrangement	(gray, pink), blue, white, brown, black
Cable identification	802
Function cable	Hybrid, Signal, Data
Jacket Color	green
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	4 wires with Stranding combination with 3 Filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece
Filler	yes
wire arrangement	(gray, pink), blue, white, brown, black
Cable weigth Material jacket	77 g/m PUR
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Outer-diameter (jacket)	6,6 mm
Tolerance outer diameter (sheath)	±5%
and sater diameter (eneutr)	

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



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Material wire insulation (Data) PP Outer diameter wire insulation (Data) 1,1 mm Tolerance outer diameter wire insulation (Data) ± 5 % Ingredient freeness wire insulation (Data) bead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount wires (Data) 2 Amount strands wire (Data) 0,1 mm Conductor crosssection wire (Data) 0,25 mm² Material conductor wire (Data) Strand class 6 Wire conductor type (Data) Strand class 6 Nominal voltage AC max. 300 V Current load capacity wire. Wire (Data) 3.2 A Current load capacity wire. Wire (Data) 3.2 A Electrical resistance line constant wire 30 D/km @ 20 °C Electrical resistance line constant wire 39 D/km @ 20 °C Electrical capacity line constant (wire - wire) 1,5 kV @ 60 s Electrical capacity line constant (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,2 kV @ 60 s Isolation resistance 2000 MΩ × km Min. operating temperature (fixed) 90 °C Operating temperature (fixed) 90 °C <t< th=""><th>Material wire insulation</th><th>PP</th></t<>	Material wire insulation	PP
Outer diameter tolerance core insulation 2.5 % Ingredient feeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands (wire) 0.4 Diameter of single wires 0.7 mm Conductor crosssection (wire) 0.5 mm² Marterial conductor wire Stranded copper wire, bare Conductor type (vire) strand class 6 Material wire insulation (Data) 1.1 mm Tolerance outer diameter wire insulation (Data) 1.1 mm Tolerance outer diameter wire insulation (Data) 1.1 mm Tolerance outer diameter wire insulation (Data) 2 Amount strands wire (Data) 2 Amount strands wire (Data) 32 Diameter of single wires (Data) 0.25 mm² Wire conductor type (Data) strand class 6 Comment load capacity (standard) to IN N VE Gase	Amount wires	4
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Amount strands (wire)	Outer diameter tolerance core insulation	±5%
Diameter of single wires 0,1 mm	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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Material wire insulation (Data) PP Outer diameter wire insulation (Data) 1,1 mm Tolerance outer diameter wire insulation (Data) ± 5 % Ingredient freeness wire insulation (Data) bead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount wires (Data) 2 Amount strands wire (Data) 0,1 mm Conductor crosssection wire (Data) 0,25 mm² Material conductor wire (Data) Strand class 6 Wire conductor type (Data) Strand class 6 Nominal voltage AC max. 300 V Current load capacity wire. Wire (Data) 3.2 A Current load capacity wire. Wire (Data) 3.2 A Electrical resistance line constant wire 30 D/km @ 20 °C Electrical resistance line constant wire 39 D/km @ 20 °C Electrical capacity line constant (wire - wire) 1,5 kV @ 60 s Electrical capacity line constant (wire - wire) 1,5 kV @ 60 s Power frequency withstand voltage (wire - shield) 1,2 kV @ 60 s Isolation resistance 2000 MΩ × km Min. operating temperature (fixed) 90 °C Operating temperature (fixed) 90 °C <t< td=""><td>Material conductor wire</td><td>Stranded copper wire, bare</td></t<>	Material conductor wire	Stranded copper wire, bare
Outer diameter wire insulation (Data) 1,1 mm Tolerace outer diameter wire insulation (data) ± 5 %. Ingredient freeness wire insulation (Data) ± 5 %. Amount strands wire (Data) 2 Amount strands wire (Data) 32 Diameter of single wires (Data) 0,1 mm Conductor crossection wire (Data) 0,25 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (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 coating wire (Data) 79 Ω/km @ 20 °C Electrical resistance coating wire (Data) 79 Ω/km @ 20 °C Electrical coacity in ine constant (wire - wire) 1,5 kV @ 60 s Electrical capacity line constant (wire - wire) 1,5 kV @ 60 s Electrical pacipacity in econstant (wire - wire) 1,5 kV @ 60 s Isolation resistance 2000 MC x km Min. operating t	Conductor type (wire)	strand class 6
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Ingredient freeness wire insulation (Data) Amount wires (Data) 2 Diameter of single wires (Data) 0,1 mm Conductor crosssection wire (Data) Material conductor wire (Data) 32 Diameter of single wires (Data) 0,25 mm² Material conductor wire (Data) Wire conductor vire (Data) Nominal voltage AC max. 300 V Current load capacity (standard) 0,1 mW (Data) 3,2 A Electrical resistance line constant wire 39 Ω/km @ 20 °C Electrical resistance contain wire (Data) 79 Ω/km @ 20 °C Electrical resistance obstant (wire - wire) 1,5 kV @ 60 s Electrical capacity line constant (wire - wire) 1,5 kV @ 60 s Electrical resistance wire (wire - shield) 1,2 kV @ 60 s Electrical persistance (wire - shield) 1,2 kV @ 60 s Electrical persistance (wire - shield) 1,2 kV @ 60 s Electrical persistance 2000 AC withstand voltage (wire - shield) 1,2 kV @ 60 s Elocating temperature (static) 4,5 kV @ 60 s Elocating temperature (static) 5,5 v C Electrical persistance 6,6 max. 4,0 withstand voltage (wire - shield) 1,2 kV @ 60 s Elocating temperature (static) 4,5 kV @ 60 s Elocating temperature (static) 5,5 v C Electrical capacity in econstant (wire - wire) 1,5 kV @ 60 s Elocating temperature (static) 2,5 v C Elocating temperature (static) 2,5 v C Elocating temperature (static) 3,5 v C Elocating temperature (static) 4,5 v C Elocating temperature (static) 5,5 v C Elocating temperature (static) 1,5 kV @ 60 s Elocating temperature (static) 2,5 v C Elocating temperature (static) 3,5 v C Elocating temperature (static) 4,5 v C Elocating temperature (static) 5,5 v C Elocating temperature (static) 5,5 v C Elocating temperature (static) 5,5 v C Elocating temperature (static) 1,5 v C Elocating temperature (stati	Outer diameter wire insulation (Data)	1,1 mm
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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 Electrical capacity line constant (wire - wire) 63000 pF/km Power frequency withstand voltage (wire - shield) 1,5 kV @ 60 s AC withstand voltage (wire - shield) 1,2 kV @ 60 s AC withstand voltage (wire - shield) 1,2 kV @ 60 s 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 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		0,25 mm ²
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Electrical resistance coating wire (Data) 79 \(\text{Dr} \text{W} \text{ @ 20 °C} \) AC withstand voltage (wire - wire) 1,5 kV \(\text{ @ 60 s} \) Electric inductivity line constant (wire - wire) 63000 pF/km Power frequency withstand voltage (wire - jacket) 1,5 kV \(\text{ @ 60 s} \) AC withstand voltage (wire - shield) 1,2 kV \(\text{ @ 60 s} \) isolation resistance 2000 \(\text{M}\text{X} \text{ w} \) Min. operating temperature (static) -50 °C Max. operating temperature (fixed) 90 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Fiame resistance EC 60332-2-2 UL 1581 \(\) 1100 FT2 UL 1581 \(\) 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline 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. \(\text{ @ 25 °C} \) Traver sing distance (C-track) 10 m \(\text{ @ 25 °C} \)	Current load capacity min. Wire (Data)	3,2 A
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 - shield) 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 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	Electrical resistance line constant wire	39 Ω/km @ 20 °C
Electric inductivity line constant 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) 70 °C Operating temperature max. (dynamic) 70 °C Flame resistance Good, application-related testing Gasoline resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (fixed) 5 x Outer diameter No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C Traversing distance (C-track) 2 m/s @ 25 °C	Electrical resistance coating wire (Data)	79 Ω/km @ 20 °C
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	AC withstand voltage (wire - wire)	1,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)1,5 kV @ 60 sAC withstand voltage (wire - shield)1,2 kV @ 60 sIsolation resistance2000 MΩ × kmMin. operating temperature (static)-50 °CMax. operating temperature (fixed)90 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °CTravel speed (C-track)10 m @ 25 °C	Electric inductivity line constant	0,65 mH/km
jacket)1,3 kV \oplus 60 sAC withstand voltage (wire - shield)1,2 kV \oplus 60 sIsolation resistance2000 MΩ × kmMin. operating temperature (static)-50 °CMax. operating temperature (fixed)90 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. \oplus 25 °CTraversing distance (C-track)10 m \oplus 25 °CTravel speed (C-track)2 m/s \oplus 25 °C	Electrical capacity line constant (wire - wire)	63000 pF/km
Isolation resistance2000 MΩ × kmMin. operating temperature (static)-50 °CMax. operating temperature (fixed)90 °COperating temperature min. (dynamic)-30 °COperating temperature max. (dynamic)70 °CFlame resistanceIEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceDIN EN 60811-404 Good, application-related testingBending radius (fixed)5 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)10 m @ 25 °CTravel speed (C-track)2 m/s @ 25 °C	Power frequency withstand voltage (wire - jacket)	1,5 kV @ 60 s
Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance 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	AC withstand voltage (wire - shield)	1,2 kV @ 60 s
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	Isolation resistance	2000 MΩ × km
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) To °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance 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) 2 m/s @ 25 °C	Min. operating temperature (static)	-50 °C
Operating temperature max. (dynamic) Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance 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) Traversing distance (C-track) 10 m @ 25 °C Travel speed (C-track) 2 m/s @ 25 °C	Max. operating temperature (fixed)	90 °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	Operating temperature min. (dynamic)	-30 °C
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	Operating temperature max. (dynamic)	70 °C
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	Flame resistance	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090
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	chemical resistance	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	Gasoline resistance	Good, application-related testing
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	Oil resistance	DIN EN 60811-404 Good, application-related testing
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	Bending radius (fixed)	5 x Outer diameter
Traversing distance (C-track) 10 m @ 25 °C Travel speed (C-track) 2 m/s @ 25 °C	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track) 2 m/s @ 25 °C	No. of bending cycles (C-track)	5 Mio. @ 25 °C
	Traversing distance (C-track)	10 m @ 25 °C
Torsion stress ± 180 °/m	Travel speed (C-track)	2 m/s @ 25 °C
	Torsion stress	± 180 °/m