

M12 male 90° A-cod. with cable

PUR 5x0.34 bk UL/CSA+drag ch. 7.5m

Male 90°

M12, 5-pole

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

with cable sleeves

Plastic housings with good resistance against chemicals and oils.

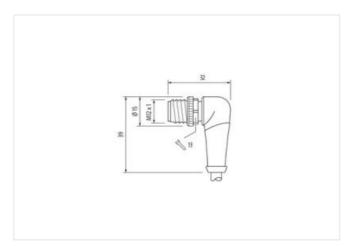
The resistance to aggressive media should be individually tested for your application. Further details on request.

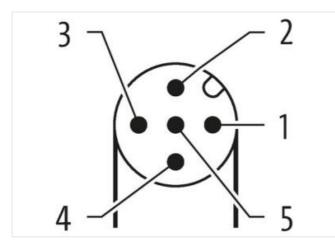
Further cable lengths on request.

Link to Product

Illustration









Product may differ from Image













Cable length

7,5 m

Side 1

Tightening torque

0,6 Nm

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

| Mounting method | inserted, screwed |
|---|---|
| Family construction form | M12 |
| Thread | M12 x 1 |
| suitable for corrugated tube (internal Ø) | 10 mm |
| Coding | A |
| Material | PUR |
| Width across flats | SW13 |
| Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |
| Commercial data | |
| ECLASS-6.0 | 27279218 |
| ECLASS-7.0 | 27279218 |
| ECLASS-8.0 | 27279218 |
| ECLASS-9.0 | 27060311 |
| ECLASS-10.1 | 27060311 |
| ECLASS-11.1 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ETIM-5.0 | EC001855 |
| customs tariff number | 85444290 |
| GTIN | 4048879613927 |
| Packaging unit | 1 |
| Electrical data Supply | |
| Operating voltage AC max. | 125 V |
| Operating voltage DC max. | 125 V |
| Operating voltage AC (UL-listed) | 30 V |
| Operating voltage DC (UL-listed) | 30 V |
| 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 | 1,5 kV |
| Material group (IEC 60664-1) | 1 |
| 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 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. |
| Conformity | |
| Product standard | DIN EN 61076-2-101 (M12) |
| | |
| Installation Cable | |



stay connected

| Cable Toppe 3 Jacket Cobr black Type of Certificate c.QRus Amount stranding 1 Stranding 5 wires around Core filter twisted Filter yes wire arrangement brown, black, blue, white, green-yellow Cable weight 41.8 g/m Maratiral jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from inspeciatins (jacket) 1.8 mm Otter-diameter (glacket) 4.8 mm Toferance outer diameter (wind an insulation 5 % Material wire insulation 1.25 mm Outer diameter insulation 1.25 mm Improduint fromoses wire insulation 1.25 mm Outer diameter insulation 1.25 mm Improduint flowness wire insulation 1.25 mm Outer diameter (wire) 3.0 mm Conductor type (wire) 42 Conductor type (wire) 3.3 mm² | wire arrangement | brown, black, blue, white, green-yellow |
|--|--------------------------------------|--|
| Jacket Color | Cable identification | 635 |
| Type of Certificate | Cable Type | 3 |
| Amount stranding 1 | Jacket Color | black |
| Stranding | Type of Certificate | cURus |
| Filter yes wire arrangement brown. black, blue, white, green-yellow Cable weigh 41,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,8 mm Tolerance under diameter (heath) 45 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1,25 mm Outer diameter silveness wire insulation 1,25 mm Outer diameter outer silveness 1,25 kW @ 80 s Portantial conductor wire 0,25 kW @ 80 s Portantial conductor wire 0,25 kW @ 80 s Outer diameter outer silveness 1,25 kW @ 80 s Outer diameter outer silveness 1,25 kW @ 80 s Outer diameter outer silveness 1,25 kW @ 80 s Outer diameter outer silveness 1,25 kW @ 80 s Oute | Amount stranding | 1 |
| wire arrangement brown, black, blue, white, green-yellow Cable weight 41,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free Under-diameter (jacket) 4,8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Couter diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter forence core insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Sh | Stranding | 5 wires around Core filler twisted |
| Cabbe weigh 41,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) ± 5 % Material wire insulation £ 5 % Outer diameter (sheath) ± 5 % Material wire insulation £ 5 % Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1, 1mm Conductor yellow wire 0, 1 mm Conductor yellow wire 0, 1 mm Conductor yellow wire 0, 1 mm Conductor yellow (wire) 9, 34 mm² Material conductor wire Stranded copper wire, bare Conductor yellow (wire) 8 trand class 6 Nominal voltage AC max 300 V Current load capacity (standard) to DIN VDE 0298 4 Current load capacity wire. wire 4,5 A Electrical resistance line constant wire 4,5 A | Filler | yes |
| Cabbe weigh 41,8 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) ± 5 % Material wire insulation £ 5 % Outer diameter (sheath) ± 5 % Material wire insulation £ 5 % Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 1, 1mm Conductor yellow wire 0, 1 mm Conductor yellow wire 0, 1 mm Conductor yellow wire 0, 1 mm Conductor yellow (wire) 9, 34 mm² Material conductor wire Stranded copper wire, bare Conductor yellow (wire) 8 trand class 6 Nominal voltage AC max 300 V Current load capacity (standard) to DIN VDE 0298 4 Current load capacity wire. wire 4,5 A Electrical resistance line constant wire 4,5 A | wire arrangement | brown, black, blue, white, green-yellow |
| Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4.8 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter berance core insulation 1,25 mm Shore hardness wire insulation 1,25 fmm 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 recesseding (wire) 0,34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity (strandard) to DIN VDE 398-4 Current load capacity (strandard) to DIN VDE 398-4 Current load capacity win, wire 4,5 A Electrical resistance line constant wire 57 Dkm @ 20 °C <t< td=""><td>Cable weigth</td><td></td></t<> | Cable weigth | |
| Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter risulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 1,25 mm Ingredient freeness wire insulation 10 ± 5 Shore D Ingredient freeness wire insulation 10 ± 5 Shore D Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor or Saccessaction (wire) 0.2 mm Material conductor wire Stranded copper wire, bare Conductor type (wire) 300 V Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298 4 Current load capacity min. wire 4,5 A 4.6 Withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Amaz. operating temperature (static) 40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 to Operation | Material jacket | PUR |
| Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) ± 5 % Material wire insulation PP Amount wires 5 Outer diameter risulation 1,25 mm Outer diameter tolerance core insulation ± 5 % Shore hardness wire insulation 1,25 mm Ingredient freeness wire insulation 10 ± 5 Shore D Ingredient freeness wire insulation 10 ± 5 Shore D Amount strands (wire) 42 Diameter of single wires 0.1 mm Conductor or Saccessaction (wire) 0.2 mm Material conductor wire Stranded copper wire, bare Conductor type (wire) 300 V Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298 4 Current load capacity min. wire 4,5 A 4.6 Withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Amaz. operating temperature (static) 40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 to Operation | Shore hardness jacket | 90 ± 5 Shore A |
| Outer-diameter (jacket) 4,8 mm Tolerance outer diameter (shealth) ± 5 %. Material wire insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter fusulation 1,25 mm Outer diameter fusulation 1,25 mm 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 (rossection (wire) 0,34 mm² Material conductor wire Stranded capper 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 4,5 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 - wire) 2,5 kV @ 60 s Max. operating temperature (static) 40 °C Max. operating temperature (static) 40 °C Ma | | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
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| Material wire insulation PP Amount wires 5 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation 70 ± 5 Shore D 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 orressection (wire) 0.34 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Nominal voltage AC max. 300 V Current load capacity standard 10 DIN VDE 0298-4 Current load capacity min, wire 4,5 A Electrical resistance line constant wire 45 Ok Mm 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance Good, application- | | · |
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| Diameter of single wires 0,1 mm Conductor crosssection (wire) 0,34 mm² 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 4,5 A Electrical resistance line constant wire 57 Okm @ 20 °C AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 Ft2 UL 1581 § 1090 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing | | |
| Conductor crosssection (wire) 0,34 mm² 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 4,5 A Electrical resistance line constant wire 57 0km @ 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 (static) -40 °C Max. operating temperature (inc. (dynamic) 25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1990 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter Bending radius (dynamic) 10 × Outer diameter </td <td></td> <td></td> | | |
| 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 (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Electrical resistance line constant wire 57 \(\Omega \text{W} \) @ 60 s Power frequency withstand voltage (wire - wire) 2,5 kV \(\omega \text{ 0 S} \) Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C / 90 °C \(\omega \text{ 10000 h Operation} \) Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C \(\omega \text{ 10000 h Operation} \) UI * resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 \(\frac{1}{3} \text{ 100 FT2} \) UL 1581 \(\frac{1}{3} \text{ 100 FT2} \) UL 1581 \(\frac{1}{3} \text{ 100 FT2} \) UL 581 \(\ | | · |
| 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 4,5 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) -40 °C 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 § 1100 FT2 UL 1581 § 109 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 × Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C horizontal Traver sing distance (C-track) < | | · |
| Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 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) -40 °C 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 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traver sing distance (C-track) 10 m @ 25 °C horizontal Traver sing distance (C-track) <td></td> <td></td> | | |
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| 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 - iacket) 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 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m | | |
| AC withstand voltage (wire - wire) Power frequency withstand voltage (wire - jacket) Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) A0 °C Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1990 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) No. of bending cycles (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m | | · · · · · · · · · · · · · · · · · · · |
| Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | | |
| jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 m @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m | | 2,0 KV @ 00 3 |
| Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation Operating temperature min. (dynamic) -25 °C Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles ± 180 °/m | | 2,5 kV @ 60 s |
| Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 m@ 25 °C Traversing distance (C-track) 10 m@ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | Min. operating temperature (static) | -40 °C |
| Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | Max. operating temperature (fixed) | 80 °C / 90 °C @ 10000 h Operation |
| UV resistance DIN EN ISO 4892-2 A Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | Operating temperature min. (dynamic) | |
| Flame resistance Clubrate | Operating temperature max. (dynamic) | 80 °C / 90 °C @ 10000 h Operation |
| chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | UV resistance | DIN EN ISO 4892-2 A |
| Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | Flame resistance | UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 |
| Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | 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) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | Gasoline resistance | Good, application-related testing |
| Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | Oil resistance | Good, application-related testing DIN EN 60811-404 |
| No. of bending cycles (C-track) 10 Mio. @ 25 °C Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | Bending radius (fixed) | 5 x Outer diameter |
| Traversing distance (C-track) 10 m @ 25 °C horizontal Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | Bending radius (dynamic) | 10 x Outer diameter |
| Travel speed (C-track) 3 m/s @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | No. of bending cycles (C-track) | 10 Mio. @ 25 °C |
| No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m | Traversing distance (C-track) | 10 m @ 25 °C horizontal |
| Torsion stress ± 180 °/m | Travel speed (C-track) | 3 m/s @ 25 °C |
| | No. of torsion cycles | 2 Mio. |
| Torsion speed 35 cycles/min | Torsion stress | ± 180 °/m |
| | Torsion speed | 35 cycles/min |