

M12 male 90° / M12 female 0° A-cod. shielded

PUR AWG24+22 shielded vt UL/CSA+drag ch. 1.4m

DeviceNet, CANopen Male 90° – female straight M12 – M12, 4-pole shielded

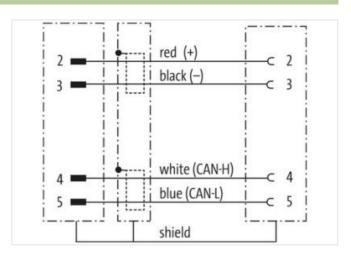
Plastic housings with good resistance against chemicals and oils.

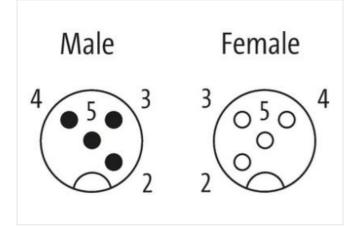
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

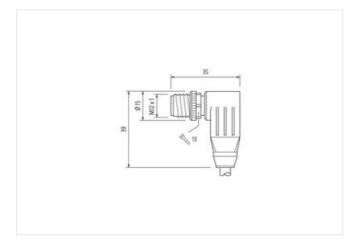
Link to Product

Illustration



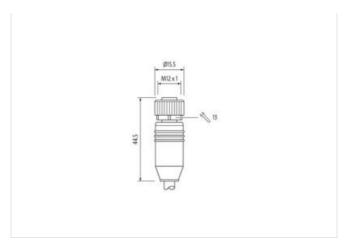








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Product may differ from Image















| Side 1 | |
|-------------------------------------|-------------------|
| | |
| Tightening torque | 0,6 Nm |
| Mounting method | inserted, screwed |
| Family construction form | M12 |
| Thread | M12 x 1 |
| Coding | A |
| Material | PUR |
| No. of poles | 4 |
| Width across flats | SW13 |
| Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |
| Side 2 | |
| Tightening torque | 0,6 Nm |
| Mounting method | inserted, screwed |
| Family construction form | M12 |
| Thread | M12 x 1 |
| Coding | A |
| Material | PUR |
| No. of poles | 4 |
| Width across flats | SW13 |
| Commercial data | |
| ECLASS-6.0 | 27279218 |
| 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 | 4048879603607 |

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| Packaging unit | 1 |
|--|---|
| | ' |
| Electrical data Supply | |
| Operating voltage AC max. | 60 V |
| Operating voltage DC max. | 60 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) | I |
| 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 |
| | inserted, sciewed, 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 | |
| wire arrangement | (white, blue), (black, red) |
| Cable identification | 803 |
| Jacket Color | violet |
| Type of Certificate | cURus |
| Amount stranding | 1 |
| Stranding | 2 wires twisted |
| Amount stranding (type 2) | 1 |
| Stranding (type 2) | 2 Stranded joints twisted |
| Cable shielding (type) | copper braid, tinned |
| Cable shielding (coverage) | 65 % |
| Banding | Foil |
| Drain wire (cross-section) | 22 AWG |
| wire arrangement | (white, blue), (black, red) |
| Cable weigth | 63,12 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) | 6,9 mm |
| Tolerance outer diameter (sheath) | ± 5 % |
| Material wire insulation | PE |
| Amount wires | 2 |
| | |

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| Shore hardness wire insulation 64 ± 5 Shore D Ingredient freeness wire insulation tead free, CFC-free, halogen-free Amount strands (vilve) 19 Diameter of single wires 24 AWG Conductor crossescition (vive) 22 AWG Drain wire (cross-section) 22 AWG Material conductor wire copper stranded wire, tinned Electrical function wire Data Material vive insulation (Data) PE Cuber distances were insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (pata) 2 Amount strands were (Data) 2 Improvement (Seal) 2 Diameter of single were (Data) 2 Diameter of single were (Data) 2 Conductor crossection wire (Data) 2 Diameter of single were (Data) 2 Contract (Pata) 2 | Outer diameter insulation | 2,1 mm |
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| Ingredient freeness wire insulation Ingredient freeness wire insulation Ingredient freeness wire insulation Ingredient freeness wire insulation (wire) Ingredient of single wires 24 AWG | Outer diameter tolerance core insulation | ±5% |
| Amount strands (wire) 19 Diameter of single wires 24 AWG Conductor cross-section (wire) 22 AWG Drain wire (cross-section) 22 AWG Material conductor wire copper stranded wire, tinned Electrical function wire Data Material wire insulation (Pata) PE User disupper wire insulation (Pata) 1,5 mm Tolerance outer diameter wire insulation (pata) 1,5 mm Tolerance outer diameter wire insulation (pata) 2,5 mm Amount strands wire (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor cross-section wire (Data) 22 AWG Malerial conductor wire (Data) 22 AWG Conductor cross-section wire (Cata) 22 AWG Malerial conductor wire (Data) 22 AWG Corrent load capacity (standard) 10 DIN VDE 0298-4 Current load capacity (standard) | Shore hardness wire insulation | 64 ± 5 Shore D |
| Diameter of single wires | Ingredient freeness wire insulation | lead-free, CFC-free, halogen-free |
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| Electrical function wire Data Material wire insulation (Data) PE | Drain wire (cross-section) | 22 AWG |
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| Outer diameter wire insulation (Data) 1,5 mm Tolerance outer diameter wire insulation (Data) ± 58 % Ingredient reseas wire insulation (Data) lead-free, CFC-free, halogen-free Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of sing wires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Conductor wire (Otata) copper stranded wire, tinned Electrical function wire (data) Power Nominal voltage AC max. 300 V Current load capacity firm. wire 4.5 A Current load capacity firm. wire 9 A Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance inconstant wire 78 Ω/km Electrical presistance coaling wire (Data) 54 Ω/km AC withstand voltage (wire - wire) 2 k/ @ 60 s Electrica capacitance </td <td>Electrical function wire</td> <td>Data</td> | Electrical function wire | Data |
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| Ingredient freeness wire insulation (Data) lead-free, CFC-free, halogen-free Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Material conductor wire (Data) 20 AWG Morninal voltage AC max. 300 V Morninal volta | Outer diameter wire insulation (Data) | 1,5 mm |
| Amount wires (Data) 2 Amount strands wire (Data) 19 Diameter of single wires (Data) 22 AWG Conductor crossection wire (Data) 22 AWG Material conductor wire (Data) 22 AWG Current load capacity (Standard) 10 DIN VDE 0298-4 Current load capacity (Standard) 10 DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. wire 24,5 A Electrical function wire (Data) 6 A Electrical function wire (Data) 6 A Electrical function wire (Data) 78 Data Electrical resistance ine constant wire 78 Data Electrical resistance coating wire (Data) 54 C/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electrica resistance (Standard) 2 kV @ 60 s Electrica repeature (Statio) 40 °C Operating temperature (Statio) 40 °C Operating temperature (Statio) 70 °C Flamer resistance (Memerature (Med) 70 °C Operating temperature min. (dynamic) 70 °C Parametric presistance (Standard) 70 °C Bending radius (installation) X Courter diameter Bending radius (installation) X Courter diameter Bending radius (installation) X Courter diameter Bending radius (installation) 5 m Travel speed (C-track) 1 Mio. Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of tersion roveles 4 30 °/m | Tolerance outer diameter wire insulation (data) | ± 53 % |
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| Conductor crosssection wire (Data) 22 AWG Material conductor wire (Data) copper stranded wire, tinned Electrical function wire (data) Power Nominal voitage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.5 A Current load capacity min. Wire (Data) 6 A Electrical function wire (data) Power Characteristic impedance 120 0 ± 10 % @ 1 MHz Electrical function wire (data) Power Characteristic impedance 120 0 ± 10 % @ 1 MHz Electrical resistance line constant wire 78 0 km Electrical resistance coating wire (Data) 54 0/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electric apacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) -40 °C Max. operating temperature (mixed) 80 °C Operating temperature mix. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 | Amount strands wire (Data) | 19 |
| Material conductor wire (Data) Copper stranded wire, tinned | Diameter of single wires (Data) | 22 AWG |
| Electrical function wire (data) | Conductor crosssection wire (Data) | 22 AWG |
| Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,5 A Current load capacity min. Wire (Data) 6 A Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km Electrical resistance coating wire (Data) 54 Ω/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electrical resistance (wire - shield) 2 kV @ 60 s Electrical reparature (fixed) 80 °C Max. operating temperature (fixed) 80 °C Operating temperature max. (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) 6 × Outer diameter Bending radius (fixed) 6 × Outer diameter Bending radius (fixed) 6 × Outer diameter Bending radius (fixed) 6 × Outer diamete | Material conductor wire (Data) | copper stranded wire, tinned |
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| Current load capacity min. Wire (Data) 6 A Electrical function wire Data Electrical function wire (data) Power Characteristic impedance 120 Ω ± 10 % @ 1 MHz Electrical resistance line constant wire 78 Ω/km Electrical resistance coating wire (Data) 54 Ω/km AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 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 (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) </td <td>Current load capacity (standard)</td> <td>to DIN VDE 0298-4</td> | Current load capacity (standard) | to DIN VDE 0298-4 |
| Electrical function wire Data Electrical function wire (data) Power Characteristic impedance $120 \Omega \pm 10 \% (0.1 \text{ MHz})$ Electrical resistance line constant wire $78 \Omega / \text{km}$ Electrical resistance coating wire (Data) $54 \Omega / \text{km}$ AC withstand voltage (wire - wire) $2 \text{ kV} \% 60 \text{ s}$ Electric apacitance 40000 pF/km AC withstand voltage (wire - shield) $2 \text{ kV} \% 60 \text{ s}$ Min. operating temperature (static) $-40 ^{\circ}\text{C}$ Max. operating temperature (fixed) $80 ^{\circ}\text{C}$ Operating temperature min. (dynamic) $-30 ^{\circ}\text{C}$ Operating temperature max. (dynamic) $70 ^{\circ}\text{C}$ Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 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 (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 10 x Ou | Current load capacity min. wire | 4,5 A |
| Electrical function wire (data) Power Characteristic impedance $120 \Omega \pm 10 \% \oplus 1 \text{MHz}$ Electrical resistance line constant wire $78 \Omega / \text{km}$ Electrical resistance coating wire (Data) $54 \Omega / \text{km}$ AC withstand voltage (wire - wire) $2 \text{kV} \oplus 60 \text{s}$ Electric capacitance 40000pF/km AC withstand voltage (wire - shield) $2 \text{kV} \oplus 60 \text{s}$ Min. operating temperature (static) $-40 ^{\circ} \text{C}$ Max. operating temperature (fixed) $80 ^{\circ} \text{C}$ Operating temperature min. (dynamic) $-30 ^{\circ} \text{C}$ Operating temperature max. (dynamic) $70 ^{\circ} \text{C}$ Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 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 (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (dynamic) 1 Mio. Traver sing distance (C- | Current load capacity min. Wire (Data) | 6 A |
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| AC withstand voltage (wire - wire) 2 kV @ 60 s Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 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 (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 5 m Traversing distance (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Electrical resistance line constant wire | 78 Ω/km |
| Electric capacitance 40000 pF/km AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 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 (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Electrical resistance coating wire (Data) | 54 Ω/km |
| AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 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 (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | AC withstand voltage (wire - wire) | 2 kV @ 60 s |
| Min. operating temperature (static) Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Electric capacitance | 40000 pF/km |
| Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 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 (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | AC withstand voltage (wire - shield) | 2 kV @ 60 s |
| Operating temperature min. (dynamic) -30 °C Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Bending radius (c-track) 1 Mio. Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Min. operating temperature (static) | -40 °C |
| Operating temperature max. (dynamic) 70 °C Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Max. operating temperature (fixed) | 80 °C |
| Flame resistance Chemical resistance Good, application-related testing Gasoline resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) Ending radius (fixed) Sending radius (dynamic) Bending radius (dynamic) No. of bending cycles (C-track) Traversing distance (C-track) Travel speed (C-track) Travel speed (C-track) Torsion stress UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 Good, application-related testing Good, application-related testing x Outer diameter x Outer diameter x Outer diameter 10 x Outer diameter 10 x Outer diameter 5 m Travel speed (C-track) Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Operating temperature min. (dynamic) | -30 °C |
| chemical resistanceGood, application-related testingGasoline resistanceDIN EN 60811-404 Good, application-related testingBending radius (installation)x Outer diameterBending radius (fixed)6 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)1 Mio.Traversing distance (C-track)5 mTravel speed (C-track)3 m/sNo. of torsion cycles2 Mio.Torsion stress± 30 °/m | Operating temperature max. (dynamic) | 70 °C |
| Gasoline resistance Good, application-related testing Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Flame resistance | UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 |
| Oil resistance DIN EN 60811-404 Good, application-related testing Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | chemical resistance | Good, application-related testing |
| Bending radius (installation) x Outer diameter Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Gasoline resistance | Good, application-related testing |
| Bending radius (fixed) 6 x Outer diameter Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Oil resistance | DIN EN 60811-404 Good, application-related testing |
| Bending radius (dynamic) 10 x Outer diameter No. of bending cycles (C-track) 1 Mio. Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ±30 °/m | Bending radius (installation) | x Outer diameter |
| No. of bending cycles (C-track) Traversing distance (C-track) Travel speed (C-track) No. of torsion cycles Torsion stress 1 Mio. 2 Mio. Torsion stress | Bending radius (fixed) | 6 x Outer diameter |
| Traversing distance (C-track) 5 m Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Bending radius (dynamic) | 10 x Outer diameter |
| Travel speed (C-track) 3 m/s No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | No. of bending cycles (C-track) | 1 Mio. |
| No. of torsion cycles 2 Mio. Torsion stress ± 30 °/m | Traversing distance (C-track) | 5 m |
| Torsion stress ± 30 °/m | Travel speed (C-track) | 3 m/s |
| | No. of torsion cycles | 2 Mio. |
| Torsion speed 35 cycles/min | Torsion stress | ± 30 °/m |
| | Torsion speed | 35 cycles/min |