

## M8 male 90° / M12 female 0° A-cod.

PUR 4x0.25 ye UL/CSA+drag ch. 0.6m

Male 90° – female straight

M8 - M12, 4-pole

A-coded

Art-No. 7005 - M12/M8 Lite - (plastic hexagonal screw) on request

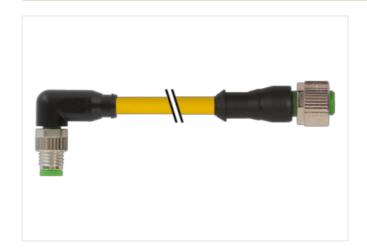
Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

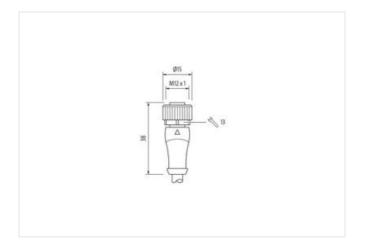
The resistance to aggressive media should be individually tested for your application. Further details on request.

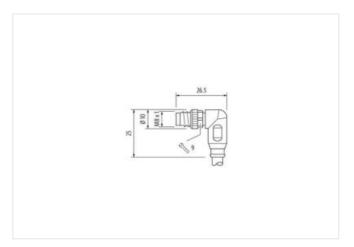
## **Link to Product**

## Illustration

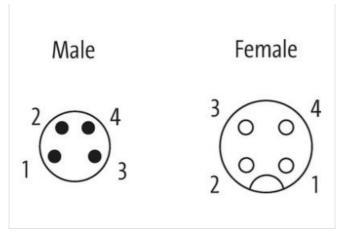












Product may differ from Image











| Mounting method         inserted, screwed           Coating contact         gold pated           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal 0)         6,5 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW9           Side 2           Tightening torque           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal 0)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           With across flats         SW13           Commercial date           ECLASS-6.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311 <th>Cable length</th> <th>0,6 m</th> | Cable length                              | 0,6 m             |
|--|---|-------------------|
| Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         6,5 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW9           Side 2           Tightening torque           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311 </td <td>Side 1</td> <td></td>     | Side 1                                    |                   |
| Coating contact         gold plated           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         6,5 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW9           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311  | Tightening torque                         | 0,4 Nm            |
| Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         6,5 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW9           Side 2         Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           Commercial data         ECLASS-6.0           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311  | Mounting method                           | inserted, screwed |
| Thread         M8 x 1           suitable for corrugated tube (internal Ø)         6,5 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW9           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311  | Coating contact                           | gold plated       |
| suitable for corrugated tube (internal Ø)         6,5 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW9           Side 2           Tightening torque           Mounting method         inserted, screwed           Coaling contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311  | Family construction form                  | M8                |
| Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW9           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311  | Thread                                    | M8 x 1            |
| Material contact         Copper alloy           No. of poles         4           Width across flats         SW9           Side 2           Tightening torque           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           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  | suitable for corrugated tube (internal Ø) | 6,5 mm            |
| No. of poles 4 Width across flats SW9  Side 2  Tightening torque 0,6 Nm Mounting method inserted, screwed  Coating contact gold plated Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm  Coding A Material contact Copper alloy No. of poles 4 Width across flats SW13  Commercial data  ECLASS-6.0 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ECLASS-12.0 27060311  ECLASS-12.0 27060311  | Coding                                    | A                 |
| Width across flats         SW9           Side 2         Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           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  | Material contact                          | 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           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           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   | No. of poles                              | 4                 |
| Tightening torque 0,6 Nm  Mounting method inserted, screwed  Coating contact gold plated  Family construction form M12  Thread M12 x 1  suitable for corrugated tube (internal Ø) 10 mm  Coding A  Material contact Copper alloy  No. of poles 4  Width across flats SW13  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  ECLASS-12.0 27060311  ECLASS-12.0 27060311   | Width across flats                        | SW9               |
| Mounting method inserted, screwed  Coating contact gold plated  Family construction form M12  Thread M12 x 1  suitable for corrugated tube (internal Ø) 10 mm  Coding A  Material contact Copper alloy  No. of poles 4  Width across flats SW13  Commercial data  ECLASS-6.0 27279218  ECLASS-7.0 27279218  ECLASS-9.0 27279218  ECLASS-9.0 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311   | Side 2                                    |                   |
| Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           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   | Tightening torque                         | 0,6 Nm            |
| Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           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   | Mounting method                           | inserted, screwed |
| Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           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  | Coating contact                           | gold plated       |
| suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           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   | Family construction form                  | M12               |
| Coding         A           Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           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   | Thread                                    | M12 x 1           |
| Material contact         Copper alloy           No. of poles         4           Width across flats         SW13           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  | suitable for corrugated tube (internal Ø) | 10 mm             |
| No. of poles 4 Width across flats SW13  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-11.1 27060311  ECLASS-12.0 27060311  | Coding                                    | A                 |
| Width across flats         SW13           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   | Material contact                          | Copper alloy      |
| 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   | No. of poles                              | 4                 |
| 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   | Width across flats                        | SW13              |
| ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27060311  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  | Commercial data                           |                   |
| ECLASS-8.0 27279218  ECLASS-9.0 27060311  ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311   | ECLASS-6.0                                | 27279218          |
| ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311   | ECLASS-7.0                                | 27279218          |
| ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311   | ECLASS-8.0                                | 27279218          |
| ECLASS-11.1 27060311<br>ECLASS-12.0 27060311   | ECLASS-9.0                                | 27060311          |
| ECLASS-12.0 27060311   | ECLASS-10.1                               | 27060311          |
|  | ECLASS-11.1                               | 27060311          |
| ETIM-5.0 EC001855  | ECLASS-12.0                               | 27060311          |
|  | ETIM-5.0                                  | EC001855          |

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: 2024-05-08



stay connected

| Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A   | customs tariff number                    | 85444290  |
|--|--|---|
| Electrical data   Supply         Operating voitinge AC         50 V           Operating voitinge DC         60 V           Operating voitinge DC (UL-listed)         30 V           Operating voitinge DC (UL-listed)         30 V           Current operating per contact max.         4 A           Diagnostics         Total Control (EN IEC 96529)         no           Device protection [EN IEC 96529)         IPSS, IPS7, IPS8, IPS6K           Additional condition protection degine         inserted, screwed           Pollution Degine         3           Rated supe voitinge         1,5 KV           Mechanical data Material data         1           Coating locking         Nicklobid           Material proving in properation data         PIVA           Material proving in properation (EC 96664+1)         1           Mechanical data Material data         PIVA           Mechanical data Material data         PIVA           Material proving         PIVR           Mounting method         Inserted, screwed, Shaking protection           Environmental tehracterialics   Climatic           Operating temperature max.         85 °C           Operating temperature max.         85 °C           Operating properature max.         85 °C           Operat  | GTIN                                     | 4048879121316   |
| Operating voltage AC         50 V           Operating voltage AC (UL-islad)         30 V           Operating voltage AC (UL-islad)         30 V           Operating voltage AC (UL-islad)         30 V           Contract operating per contact max.         4 A           Diagnostics           Status indication LED         no           Device protection [Electrical           Device protection (R IEC 600529)         IP68, IP67, IP68, IP68K           Additional condition protection diagree         inserted, screwed           Pollution Degree           Pollution Degree           Pollution Degree           Pollution Degree           Additional formation of Marketal data           Webanchic data Maretal data           Value of Degree of Pollution Degree           Material gasket         FKM           Material data Maretal data           Maretal data Mounting data           Mounting material         Pollution Degree           Mounting data Mounting data           Mounting partners were made and partners were made a  | Packaging unit                           | 1   |
| Operating voltage DC         69 V           Operating voltage AC (UL-listed)         30 V           Current operating Der Contract max.         4 A           Diagnostics         Image: Contract max.           Status Indication LED         no           Degree of protection [Electrical]         Insert Contract max.           Degree of protection [Electrical]         Insert Contract max.           Degree of protection (EN LEC 000289)         Insert Contract max.           Pollution Degree         3           Facet surge voltage         1,5 kV           Material group IEC 00044 1)         1           Mechanical data Material data         Insert Contract max.           Coating locking         Nickoled           Material proucing         PUR           Cubing nethod         Inserted, screwed, Shaking protection           Environmental characteristics Climitic         Zinc de-casting           Environmental characteristics Climitic         Volumental properature max.         85 °C           Operating temperature max.         85 °C           Operating temperature max.         85 °C           Operating temperature max.         85 °C           Cobing nation roles         Product the connectors by valiable measures from mechanical loads, e.g. by the usage of cable less.   | Electrical data   Supply                 |   |
| Operating voltage DC         69 V           Operating voltage AC (UL-listed)         30 V           Current operating Der Contract max.         4 A           Diagnostics         Image: Contract max.           Status Indication LED         no           Degree of protection [Electrical]         Insert Contract max.           Degree of protection [Electrical]         Insert Contract max.           Degree of protection (EN LEC 000289)         Insert Contract max.           Pollution Degree         3           Facet surge voltage         1,5 kV           Material group IEC 00044 1)         1           Mechanical data Material data         Insert Contract max.           Coating locking         Nickoled           Material proucing         PUR           Cubing nethod         Inserted, screwed, Shaking protection           Environmental characteristics Climitic         Zinc de-casting           Environmental characteristics Climitic         Volumental properature max.         85 °C           Operating temperature max.         85 °C           Operating temperature max.         85 °C           Operating temperature max.         85 °C           Cobing nation roles         Product the connectors by valiable measures from mechanical loads, e.g. by the usage of cable less.   | Operating voltage AC                     | 50 V  |
| Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Diagnotics         Status indication LED         no           Degree of protection (ENIEC 80529)         IP66, IP67, IP68, IP66K           Additional condition protein of person in inserted, screwed         Follution Dargee         3           Rated surge voltage         1,5 kV           Material group (IEC 80684+1)         I           Mechanical datal Material data         Nickeled           Multiral gasket         F.MM           Material pasket         F.MM           Mechanical datal Multiral datal Munting data         Inserted, screwed, Shaking protection           Environmental characteristics [Climatic         Coperating temperature min.           Operating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range depending on cable quality           Important insatiation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fees.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fees.           Installation (Cable         Alternition: Observe the permissible benefing radii w  | · · · · · · · · · · · · · · · · · · ·    |   |
| Operating voltage DC (ULL-listed)         30 V           Current operating per contact max.         4 A           Disagnostics         Status indication LED           Device protection   Electrical         Degree of protection   Electrical           Degree of protection protection agree         Insertion, so consider an insertion and insert   |  | 30 V  |
| Dispractice      |  |   |
| Disposatios         Silatus inficiation LED         no           Device protection [Electrical]         Position protection (EN IECG 60529)         IP66, IP67, IP68, IP68K           Additional condition protection degree         inserted, screwed           Pollution Degree         3         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data I Material data         Mickeled           Material possing         Nickeled           Material possing         PUR           Locking makerial         FVM           Mechanical Material Mounting data         Vince casting           Mechanical Material Mounting data         PUR           Mounting mothed         For Company of Co  |  | 4 A   |
| Device protection   Electrical           Degree of protection (EN IEC 60529)         IP65, IP67, IP68, IP66K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Macterial group (IEC 60664-1)         1           Mechanical data   Material data         Coating locking         Nickeled           Material pussing         PUR           Locking material         Zon deleasting           Mechanical data   Munting data         FKM           Poperating temperature min.         45 °C           Operating temperature min.         85 °C           Additional condition temperature range         depending on  |  |   |
| Degree of protection   Electrical  Degree of protection (EN IEC 60529)   IP65, IP67, IP68, IP66K  Additional condition protection degree   Inserted, screwed  Pollution Degree 3 3  Rated surge voltage 1,5 kV  Material group (IEC 60684-1)   I  Mechanical data   Material data  Coating locking   Nickeled  Material gasket   FKM  Material pushing   PUR  Locking material   Zinc die-casting  Mechanical data   Mounting data  Mechanical data   Mounting data  Mounting method   Inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.   -25 °C  Operating temperature max.   45 °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 fies.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification   031  Cable identification   031  Stranding   4 wires twisted   URus  Amount stranding   1  Stranding   4 wires twisted   10 mg (25 °C) (Indicate   URus  Amount stranding   1  Stranding   4 wires twisted   10 mg (25 °C) (Indicate   URus  Amount stranding   1  Stranding   4 wires twisted   10 mg (25 °C) (Indicate   URus  Amount stranding   1  Stranding   4 wires twisted   10 mg (25 °C) (Indicate   URus  Amount stranding   1  Stranding   4 wires twisted   10 mg (25 °C) (Indicate   URus  Amount stranding   1  Stranding   4 wires twisted   10 mg (25 °C) (Indicate   URus  Amount stranding   1  Stranding   4 wires twisted   10 mg (25 °C) (Indicate   URus  Amount stranding   1  Attention (Indicate   URus   UR |  | no  |
| Degree of protection (EN IEC 80329)         IP65, IP67, IP68, IP66K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 80664-1)         I           Coating locking         Nickeled           Material data Insterial data           Coating locking         Nickeled           Material gasket         FKM           Material pasket         FKM           Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climate           Coperating temperature min.         25 °C           Operating temperature rams.         85 °C           Additional condition temperature rang.         85 °C           Additional condition temperature rang.         45 °C           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fies.           Installation   Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Installation   Cable         2 <th< td=""><td></td><td></td></th<>  |  |   |
| 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  Costing locking Nickeled Material gasket FKM Material housing PUR Locking material Decision   PUR Locking material   Control of Co | •  | IDES IDES IDES IDESK  |
| Pollution Degree         3           Rated surge voitage         1,5 kV           Material group (IEC 60664-1)         I           Material goup (IEC 60664-1)         I           Mechanical date International Material date         Nickeled           Material gasket         FKM           Material pasket         PUR           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         Protect the connectors by suitable measures from mechanical loads, e.g., by the usage of cable tes.           Note on bending radius         Attention: Observe the permissible bending radi when laying cables, as the IP protection class can be endanguered by excessive bending forces.           Installation (Cable         Cable identification           Cable identification         031           Cable identification         031           Cable of type         3           Jacket Color         yollow           Type   |  |   |
| Rate of surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data   Material date         I           Coaling locking         Nickeled           Material gasket         FKM           Material housing         PUR           Locking material         Zinc die-casting           Mechanical data   Mounting data         Mounting method           Environmental characteristics   Climatic         Coperating temperature min.         -25 °C           Operating temperature min.         -25 °C         Coperating temperature may.         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 brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable identification         031           Cable identification         031           Cable identification         031           Cable wight         4 wires wisted           Vive or win  |  |   |
| Material group (IEC 60664-1)         I           Mechanical data   Material data           Coating locking         Nickeled           Material spasket         FKM           Material housing         PUR           Locking material         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.         -25 °C           Operating temperature max.         85 °C         Activational condition temperature range         depending on cable quality           Important installation notes         Vivident of the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           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         Cable identification         031           Cable Type         3           Jacket Color         yellow           Type of Certificate         cURus           Amount stranding         1           Traversing distance (C-track)         10 m@ 25 °C   horizontal           Soble wei   |  |   |
| Mechanical data   Material data         Nickeled           Material gasket         FKM           Material pasket         PLM           Locking material         Zinc die-casting           Mechanical data   Mounting data           Mechanical characteristics   Climatic           Cereating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Total 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           Cable identification         031           Cable identification         031           Cable identification         031           Type of Certificate         cuRus           Amount stranding         1           Stranding         4           wire swisted         prown, black, blue, white           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weight         33 g/m           Material jacket   |  | · · · · · · · · · · · · · · · · · · ·   |
| Coating locking         Nickeled           Material pasket         FKM           Material housing         PUR           Locking material         Zinc die-casting           Mechanical data   Mounting data         Mounting method           Environmental characteristics   Climatic         Comparing temperature min.         -25 °C           Operating temperature man.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           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           Cable identification         031           Cable reper dentification         031           Cable reper dentification         031           Cable reper dentificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Traversing distance (C-track)         10 m@   |  |   |
| Material gasket FKM Material housing PUR Locking material Mechanical data   Mounting data Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on stain 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  Cable identification 031  Cable Type 3  Jacket Color yellow  Type of Certificate culffust  Avires striating 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m@ 25 °C   horizontal  Cable weigh 33 g/m  Material jacket PUR  Shore hardness jacket PUR  Shore hardness jacket PUR  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount strond ingredients (jacket) 1,25 mm   |  | NEsterial   |
| Material housing PUR  Locking material Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  |  |   |
| Locking material         Zinc die-casting           Mechanical data   Mounting data         Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Comparing temperature man.         25 °C           Operating temperature man.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         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           Cable identification         031           Cable identification         031           Cable Color         yellow           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           vire arrangement         brown, black, blue, white           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weigth         33 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free   |  |   |
| Mechanical data   Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         25 °C           Operating temperature min.         -25 °C           Operating temperature max.         35 °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         Cable identification         031           Cable identification         031         3           Cable Type         3         3           Jacket Color         yellow         4           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weigth         33 g/m           Material jacket         PIR           Shore hardness jacket         90 ± 5 Shore A           Freed  |  |   |
| Mounting method inserted, screwed, Shaking protection    Forumental characteristics   Climatic   |  | Zinc die-casting  |
| Environmental characteristics   Climatic Operating temperature min25 °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 Cable identification 031 Cable Type 3 Jacket Color yellow Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal Cable weight Material jacket PUR Shore hardness Jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 0uter-diameter (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material javies insulation PP Amount wires 4 Outer diameter insulation 1,25 mm  |  |   |
| 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  Cable identification 031 Cable Type 3 Jacket Color yellow Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted  wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weight 33 g/m  Material 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 PP  Amount wires 4  Amount stries 4  Outer diameter insulation 1,25 mm  | Mounting method                          | inserted, screwed, Shaking protection   |
| 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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable  Cable identification 031  Cable Type 3  Jacket Color yellow  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weight 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 44  Outer diameter insulation 1,25 mm  | Environmental characteristics   Climatic |   |
| 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  Cable identification 031  Cable Type 3  Jacket Color yellow  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weight 33 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 PP  Amount wires 4  Outer diameter insulation 1,25 mm   | Operating temperature min.               | -25 °C  |
| 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           Cable identification         031           Cable Type         3           Jacket Color         yellow           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weigth         33 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         4,5 mm           Outer-diameter (jacket)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm   | Operating temperature max.               | 85 °C   |
| 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    Cable identification 031  Cable Type 3  Jacket Color yellow  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  | Additional condition temperature range   | depending on cable quality  |
| 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         Cable identification       031         Cable Type       3         Jacket Color       yellow         Type of Certificate       cURus         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, black, blue, white         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Cable weigth       33 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)       4,5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       1,25 mm   | Important installation notes             |   |
| Installation   Cable  Cable identification 031  Cable Type 3  Jacket Color yellow  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 4.5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm   | Note on strain relief                    | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. |
| Cable identification         031           Cable Type         3           Jacket Color         yellow           Type of Certificate         cURus           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, black, blue, white           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Cable weigth         33 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)         4,5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         4           Outer diameter insulation         1,25 mm  | Note on bending radius                   |   |
| Cable Type 3 Jacket Color yellow Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal Cable weigth 33 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm  | Installation   Cable                     |   |
| Cable Type 3 Jacket Color yellow Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Traversing distance (C-track) 10 m @ 25 °C   horizontal Cable weigth 33 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm  | Cable identification                     | 031   |
| Jacket Color yellow Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 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) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm   |  |   |
| Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 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) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm   |  |   |
| Amount stranding  1 Stranding  4 wires twisted  wire arrangement  brown, black, blue, white  Traversing distance (C-track)  10 m @ 25 °C   horizontal  Cable weigth  33 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)  4,5 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  4  Outer diameter insulation  1,25 mm  |  | •   |
| Stranding 4 wires twisted wire arrangement brown, black, blue, white  Traversing distance (C-track) 10 m @ 25 °C   horizontal  Cable weigth 33 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) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm   | Amount stranding                         |   |
| Traversing distance (C-track)  10 m @ 25 °C   horizontal  Cable weigth  33 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)  4,5 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  4  Outer diameter insulation  1,25 mm   |  | 4 wires twisted   |
| Cable weigth       33 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)       4,5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       4         Outer diameter insulation       1,25 mm  | wire arrangement                         | brown, black, blue, white   |
| 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)     4,5 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm  | Traversing distance (C-track)            | 10 m @ 25 °C   horizontal   |
| Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  | Cable weigth                             | 33 g/m  |
| Freedom from ingredients (jacket)  Outer-diameter (jacket)  7 olerance outer diameter (sheath)  Anount wires  4  Outer diameter insulation  PP  Amount wires  4  Outer diameter insulation  1,25 mm  | Material jacket                          | PUR   |
| Outer-diameter (jacket)     4,5 mm       Tolerance outer diameter (sheath)     ± 5 %       Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm  | Shore hardness jacket                    | 90 ± 5 Shore A  |
| Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  | Freedom from ingredients (jacket)        | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free                                      |
| Material wire insulation     PP       Amount wires     4       Outer diameter insulation     1,25 mm   | Outer-diameter (jacket)                  | 4,5 mm  |
| Amount wires 4 Outer diameter insulation 1,25 mm   | Tolerance outer diameter (sheath)        | ± 5 %   |
| Outer diameter insulation 1,25 mm  | Material wire insulation                 | PP  |
|  | Amount wires                             | 4   |
| Outer diameter tolerance core insulation ± 5 %   | Outer diameter insulation                | 1,25 mm   |
|  | Outer diameter tolerance core insulation | ± 5 %   |



| 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)                             | 32   |
| Diameter of single wires                          | 0,1 mm   |
| Conductor crosssection (wire)                     | 0,25 mm <sup>2</sup>   |
| 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                   | 3,6 A  |
| Electrical resistance line constant wire          | 79 Ω/km @ 20 °C  |
| AC withstand voltage (wire - wire)                | 2,5 kV @ 60 s  |
| Power frequency withstand voltage (wire - jacket) | 2,5 kV @ 60 s  |
| Min. operating temperature (static)               | -40 °C   |
| Max. operating temperature (fixed)                | 80 °C / 90 °C @ 10000 h Operation                              |
| Operating temperature min. (dynamic)              | -25 °C   |
| Operating temperature max. (dynamic)              | 80 °C / 90 °C @ 10000 h Operation                              |
| 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                                    | Good, application-related testing   DIN EN 60811-404           |
| Bending radius (fixed)                            | 5 x Outer diameter   |
| Bending radius (dynamic)                          | 10 x Outer diameter  |
| Travel speed (C-track)                            | 10 Mio. @ 25 °C  |
| No. of torsion cycles                             | 2 Mio.   |
| Torsion stress                                    | ± 180 °/m  |
| Torsion speed                                     | 35 cycles/min  |