

Technical data sheet

Connection cable

Part no.: 50146481

KD U-M12-HA-P1-030

Contents

- Technical data
- Electrical connection



For illustration purposes only



Technical data

Basic data

| | |
|-------------|-----------------------------|
| Application | Oil and lubricant resistant |
|-------------|-----------------------------|

Electrical data

Performance data

| | |
|-------------------|-----------------|
| Operating voltage | Max. 30 V AC/DC |
|-------------------|-----------------|

Connection

Connection 1

| | |
|----------------------|--|
| Type of connection | Connector |
| Thread size | M12 |
| Type | Female |
| Handle body material | TPU |
| No. of pins | 17 -pin |
| Encoding | A-coded |
| Connector, LED | No |
| Lock | Screw fitting, nickel-plated diecast zinc, recommended torque 0.4 Nm, self-locking |

Connection 2

| | |
|--------------------|----------|
| Type of connection | Open end |
|--------------------|----------|

Cable properties

| | |
|-----------------------------|---|
| Number of conductors | 17 Piece(s) |
| Wire cross section | 0.14 mm ² |
| AWG | 26 |
| Sheathing color | Black |
| Shielded | No |
| Silicone-free | Yes |
| Cable design | Connection cable (open on one end) |
| Cable diameter (external) | 8 mm |
| Cable length | 3,000 mm |
| Sheathing material | PUR |
| Wire insulation | PP |
| Traverse rate | Max. 3m/s with horiz. traverse path of 5m and max. acceleration of 10m/s ² |
| Suitability for drag chains | Yes |

| | |
|-----------------------------------|--|
| Properties of the outer sheathing | Free of CFC, cadmium, silicone, halogen and lead, matt, low-adhesion, abrasion-resistant, easily machine-processable |
|-----------------------------------|--|

| | |
|-----------------------------------|---|
| Resistance of the outer sheathing | Hydrolysis and microbe resistant, good oil, gasoline and chemical resistance in accordance with VDE 0472 part 803 test B, flame retardant in accordance with UL 1581 VW1 / CSA FT1 / IEC 60332-1, IEC 60332-2-2 |
|-----------------------------------|---|

Mechanical data

| | |
|---|---------------------------|
| Bending cycles | 400,000 Piece(s) |
| Bending radius, flexible laying, min. | Min. 7.5 x cable diameter |
| Bending radius, stationary laying, min. | Min. 7.5 x cable diameter |

Operation and display

Environmental data

| | |
|--|---------------|
| Ambient temperature, operation, flexible use | -5 ... 80 °C |
| Ambient temperature, operation, stationary use | -40 ... 80 °C |

Certifications

| | |
|----------------------|-------|
| Degree of protection | IP 67 |
| | IP 68 |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 85444290 |
| ECLASS 5.1.4 | 27279201 |
| ECLASS 8.0 | 27279218 |
| ECLASS 9.0 | 27060311 |
| ECLASS 10.0 | 27060311 |
| ECLASS 11.0 | 27060311 |
| ECLASS 12.0 | 27060311 |
| ECLASS 13.0 | 27060311 |
| ECLASS 14.0 | 27060311 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |
| ETIM 8.0 | EC001855 |
| ETIM 9.0 | EC001855 |

Electrical connection

Connection 1

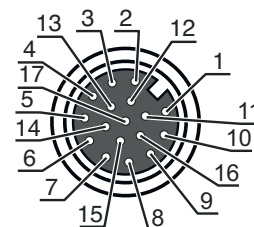
| | |
|--------------------|-----------|
| Type of connection | Connector |
| Thread size | M12 |
| Type | Female |
| Material | Metal |

Electrical connection

Connection 1

| | |
|----------------------|--|
| Handle body material | TPU |
| No. of pins | 17 -pin |
| Encoding | A-coded |
| Connector, LED | No |
| Lock | Screw fitting, nickel-plated diecast zinc, recommended torque 0.4 Nm, self-locking |

| Pin | Conductor color |
|-----|-----------------|
| 1 | Brown |
| 2 | Blue |
| 3 | White |
| 4 | Green |
| 5 | Pink |
| 6 | Yellow |
| 7 | Black |
| 8 | Gray |
| 9 | Red |
| 10 | Violet |
| 11 | gray / pink |
| 12 | red / blue |
| 13 | white / green |
| 14 | brown / green |
| 15 | white / yellow |
| 16 | yellow / brown |
| 17 | white / gray |



Connection 2

| | |
|--------------------|----------|
| Type of connection | Open end |
|--------------------|----------|