

## Technical data sheet

### Connection cable

Part no.: 50154080

KD 05 U-M12-5A-V0-020

#### Contents

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- Electrical connection
- Circuit diagrams



For illustration purposes only



## Technical data

### Basic data

|             |                    |
|-------------|--------------------|
| Application | Chemical resistant |
|-------------|--------------------|

### Electrical data

#### Performance data

|                   |                  |
|-------------------|------------------|
| Operating voltage | Max. 125 V AC/DC |
|-------------------|------------------|

### Connection

#### Connection 1

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Type of connection   | Connector                                                                          |
| Thread size          | M12                                                                                |
| Type                 | Female                                                                             |
| Handle body material | TPU                                                                                |
| No. of pins          | 5 -pin                                                                             |
| Encoding             | A-coded                                                                            |
| Version              | Axial                                                                              |
| Connector, LED       | No                                                                                 |
| Lock                 | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

#### Connection 2

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

#### Cable properties

|                                   |                                                                                                      |
|-----------------------------------|------------------------------------------------------------------------------------------------------|
| Number of conductors              | 5 Piece(s)                                                                                           |
| Wire cross section                | 0.34 mm <sup>2</sup>                                                                                 |
| AWG                               | 22                                                                                                   |
| Sheathing color                   | Gray                                                                                                 |
| Shielded                          | No                                                                                                   |
| Silicone-free                     | Yes                                                                                                  |
| Cable design                      | Connection cable (open on one end)                                                                   |
| Cable diameter (external)         | 5.2 mm                                                                                               |
| Cable length                      | 2,000 mm                                                                                             |
| Sheathing material                | PVC                                                                                                  |
| Wire insulation                   | PVC                                                                                                  |
| Suitability for drag chains       | No                                                                                                   |
| Properties of the outer sheathing | Free of CFC, cadmium, silicone and lead, easily machine-processable                                  |
| Resistance of the outer sheathing | Good oil, gasoline and chemical resistance, flame retardant in accordance with UL 1581 VW1 / CSA FT1 |

### Mechanical data

|                                         |                          |
|-----------------------------------------|--------------------------|
| Width across flats                      | 13 mm                    |
| Net weight                              | 92 g                     |
| Bending cycles                          | 2,000,000 Piece(s)       |
| Bending radius, flexible laying, min.   | Min. 10 x cable diameter |
| Bending radius, stationary laying, min. | Min. 5 x cable diameter  |

### Operation and display

### Environmental data

|                                                |               |
|------------------------------------------------|---------------|
| Ambient temperature, operation, flexible use   | -5 ... 70 °C  |
| Ambient temperature, operation, stationary use | -30 ... 70 °C |

### Certifications

|                      |       |
|----------------------|-------|
| Degree of protection | IP 65 |
|                      | IP 67 |

### 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 |
| ECLASS 15.0           | 27060311 |
| ECLASS 16.0           | 27060311 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |
| ETIM 7.0              | EC001855 |
| ETIM 8.0              | EC001855 |
| ETIM 9.0              | EC001855 |
| ETIM 10.0             | EC001855 |

## Electrical connection

### Connection 1

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| Type of connection   | Connector                                                                          |
| Thread size          | M12                                                                                |
| Type                 | Female                                                                             |
| Handle body material | TPU                                                                                |
| No. of pins          | 5 -pin                                                                             |
| Encoding             | A-coded                                                                            |
| Version              | Axial                                                                              |
| Connector, LED       | No                                                                                 |
| Lock                 | Screw fitting, nickel-plated diecast zinc, recommended torque 0.6 Nm, self-locking |

Electrical connection

| Pin | Conductor color |
|-----|-----------------|
| 1   | Brown           |
| 2   | White           |
| 3   | Blue            |
| 4   | Black           |
| 5   | Gray            |



Connection 2

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

Circuit diagrams

Wiring schematic

