

## Technical data sheet

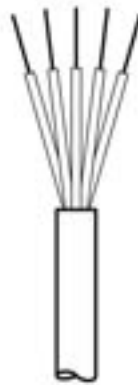
### Connection cable

Part no.: 429281

CB-M12-50000-5GF

#### Contents

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- Electrical connection
- Circuit diagrams
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For illustration purposes only



# Technical data

## Basic data

|             |                             |
|-------------|-----------------------------|
| Application | Oil and lubricant 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 | PUR  |
| Handle body color    | Black  |
| 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                   | Black   |
| Shielded                          | No  |
| Silicone-free                     | Yes   |
| Cable design                      | Connection cable (open on one end)  |
| Cable diameter (external)         | 5 mm  |
| Cable length                      | 50,000 mm   |
| Sheathing material                | PUR   |
| Wire insulation                   | PP  |
| Traverse rate                     | Max. 3.3 m/s with horiz. traverse path of 5m and and max. acceleration of 5m/s <sup>2</sup>   |
| 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 |
| Torsion suitability               | ±180° / m (max. 2 mio. cycles with 35 cycles / min)   |

## Mechanical data

|   |                          |
|---|--------------------------|
| Width across flats                      | 13 mm                    |
| Bending cycles                          | 5,000,000 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   | -25 ... 80 °C |
| Ambient temperature, operation, stationary use | -40 ... 80 °C |

## 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

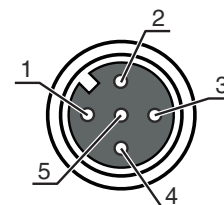
|                      |           |
|----------------------|-----------|
| Type of connection   | Connector |
| Thread size          | M12       |
| Type                 | Female    |
| Handle body material | PUR       |
| Handle body color    | Black     |

# Electrical connection

## Connection 1

|                |  |
|----------------|--|
| 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 |

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

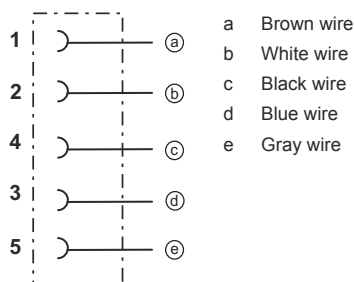


## Connection 2

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

# Circuit diagrams

## Wiring schematic



# Accessories

## General

|  | Part no. | Designation   | Article | Description   |
|--|----------|---------------|---------|---|
|  | 50132266 | TT-Set 0,6-13 | Tool    | Type: Torque key<br>Width across flats: 13 mm<br>Torque: 0.6 N·m<br>Material: Plastic, Stainless steel<br>Ambient temperature: -40 ... 120 °C |

### Note



A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.