

## Technical data sheet

### Connection cable

Part no.: 678052

CB-M12-15000E-5GM

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- Electrical connection
- Circuit diagrams
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Figure can vary



## Technical data

### Electrical data

|                  |             |
|------------------|-------------|
| Insulation grade | Category 2  |
| Insulation grade | IEC 60644-1 |

### Performance data

|                   |                 |
|-------------------|-----------------|
| Operating voltage | Max. 60 V AC/DC |
|-------------------|-----------------|

### Connection

#### Connection 1

|                               |  |
|-------------------------------|--|
| Type of connection            | Connector  |
| Thread size                   | M12  |
| Type                          | Male   |
| Handle body material          | PUR  |
| No. of pins                   | 5 -pin   |
| Encoding                      | A-coded  |
| Version                       | Axial  |
| Operating current per contact | 4 A  |
| 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                          | Yes  |
| Silicone-free                     | Yes  |
| Cable design                      | Connection cable (open on one end)   |
| Cable diameter (external)         | 6.3 mm   |
| Cable length                      | 15,000 mm  |
| Sheathing material                | PUR  |
| Wire insulation                   | PP   |
| Suitability for drag chains       | No   |
| 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

|   |                          |
|---|--------------------------|
| Width across flats                      | 13 mm                    |
| Bending radius, flexible laying, min.   | Min. 15 x cable diameter |
| Bending radius, stationary laying, min. | Min. 10 x cable diameter |

### Environmental data

|  |               |
|--|---------------|
| Ambient temperature, operation, flexible use   | -25 ... 80 °C |
| Ambient temperature, operation, stationary use | -50 ... 80 °C |

### Certifications

|                |               |
|----------------|---------------|
| Certifications | c UL US<br>UL |
|----------------|---------------|

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85444290 |
| eCl@ss 5.1.4          | 27279201 |
| eCl@ss 8.0            | 27279218 |
| eCl@ss 9.0            | 27060311 |
| eCl@ss 10.0           | 27060311 |
| eCl@ss 11.0           | 27060311 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |
| ETIM 7.0              | EC001855 |

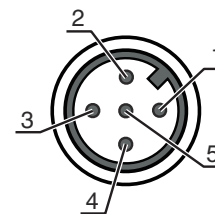
## Electrical connection

### Connection 1

|                               |  |
|-------------------------------|--|
| Type of connection            | Connector  |
| Thread size                   | M12  |
| Type                          | Male   |
| Handle body material          | PUR  |
| No. of pins                   | 5 -pin   |
| Encoding                      | A-coded  |
| Version                       | Axial  |
| Operating current per contact | 4 A  |
| 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            |

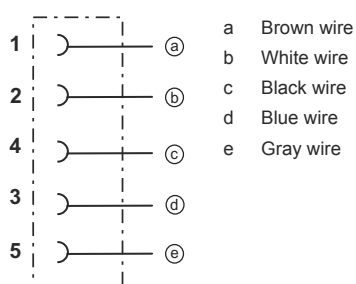


## Connection 2

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

# Circuit diagrams

## Wiring schematic



# 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.