

## Technical data sheet

### Connection cable

Part no.: 678059

CB-M12-50000E-5GF

#### Contents

- Technical data
- Electrical connection
- Accessories



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                          | Female                                                                             |
| Handle body material          | PUR                                                                                |
| No. of pins                   | 5 -pin                                                                             |
| Encoding                      | A-coded                                                                            |
| Design                        | 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                      | 50,000 mm                                                                                                                                                                                                       |
| Sheathing material                | PUR                                                                                                                                                                                                             |
| Wire insulation                   | PP                                                                                                                                                                                                              |
| 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 |
|                | UL      |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85444290 |
| eCl@ss 8.0            | 27279218 |
| eCl@ss 9.0            | 27060311 |
| ETIM 5.0              | EC001855 |
| ETIM 6.0              | EC001855 |

## Electrical connection

### Connection 1

|                               |                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------|
| Type of connection            | Connector                                                                          |
| Thread size                   | M12                                                                                |
| Type                          | Female                                                                             |
| Handle body material          | PUR                                                                                |
| No. of pins                   | 5 -pin                                                                             |
| Encoding                      | A-coded                                                                            |
| Design                        | 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 |
|--------------------|----------|

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.