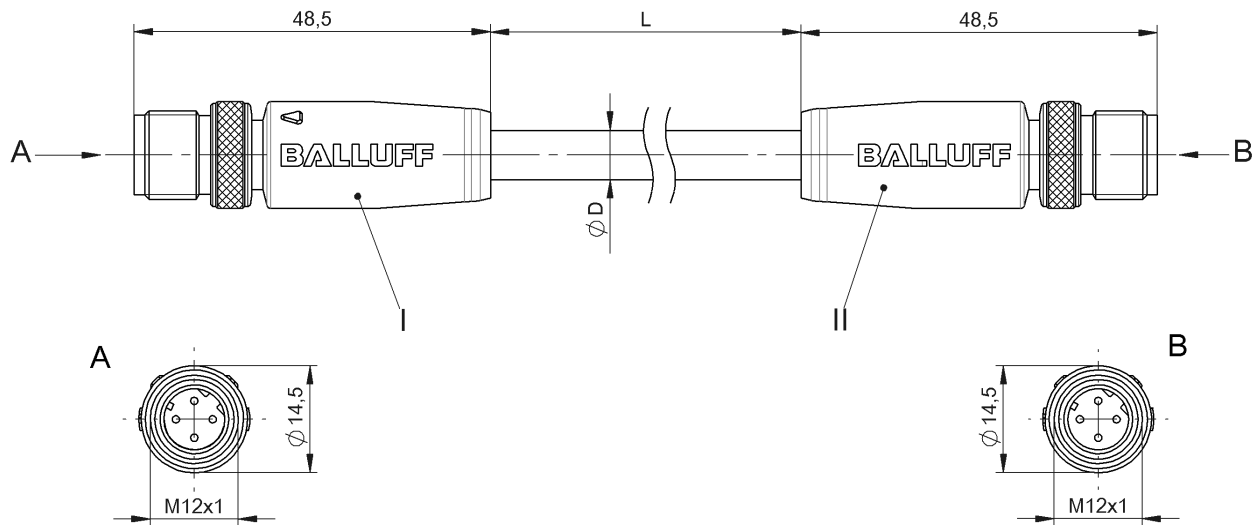


Double-Ended Cordsets  
**BCC M414-M414-6D-331-PS54N2-250**  
Order Code: BCC0KPA

**BALLUFF**



#### Basic features

|                     |                     |
|---------------------|---------------------|
| Application         | Profinet , CAT 5    |
| Approval/Conformity | CE<br>cULus<br>WEEE |

#### Electrical connection

|                                     |                                                 |
|-------------------------------------|-------------------------------------------------|
| Bending radius min., fixed cable    | 5 x D                                           |
| Bending radius min., flexible cable | 15 x D                                          |
| Cable                               | PUR Shielded Green, 25 m, drag chain compatible |
| Cable diameter D                    | 6.70 mm $\pm$ 0.30 mm                           |
| Cable, bending cycles min.          | 2 mil.                                          |
| Cable, note                         | Profinet Type C, CAT 5E by IEC 61156-6          |
| Conductor cross-section             | 22 AWG                                          |
| Connection 1                        | M12x1-Male, straight, 4-pin, D-coded            |
| Connection 2                        | M12x1-Male, straight, 4-pin, D-coded            |
| Number of conductors                | 4                                               |
| System                              | Molded/Molded                                   |

#### Electrical data

|                       |               |
|-----------------------|---------------|
| Operating voltage Ub  | 60 VDC        |
| Rated current (40 °C) | 1.5 A         |
| Transfer rate         | 10/100 Mbit/s |

#### Environmental conditions

|                                     |             |
|-------------------------------------|-------------|
| Cable temperature, fixed routing    | -40...80 °C |
| Cable temperature, flexible routing | -20...60 °C |
| IP rating                           | IP67/IP67   |

#### Material

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Cable jacket material, note | Shielded                                      |
| Cable jacket, material      | PUR                                           |
| Cable shield                | Aluminum foil and copper braid                |
| Material contact carrier    | PUR/PUR                                       |
| Material contacts           | Brass/Brass                                   |
| Material cover nut          | Brass<br>nickel-plated/Brass<br>nickel-plated |
| Material grip               | PUR/PUR                                       |

#### Mechanical data

|                                         |                       |
|-----------------------------------------|-----------------------|
| Acceleration max., drag chain           | 2 m/s <sup>2</sup>    |
| Cable jacket, color                     | Green                 |
| Cable length L                          | 25.00 m               |
| Cable properties                        | drag chain compatible |
| Horizontal travel permitted, drag chain | 5 m                   |
| Tightening torque pigtail               | 0.6 Nm/0.6 Nm         |
| Traverse speed max., drag chain         | 200 m/min             |
| Vertical travel permitted, drag chain   | 5 m                   |

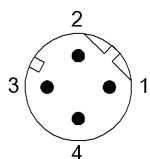
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Remarks

Cable construction acc. to UL-AWM Style 20549  
Halogen-free per DIN VDE 0472 Part 815  
Silicone-free  
Flame resistance acc. to FT1  
Enclosure rating per IEC 60529, only in screwed state with the associated mating piece.  
360° shield on cover nut

Connector Drawings



I , II

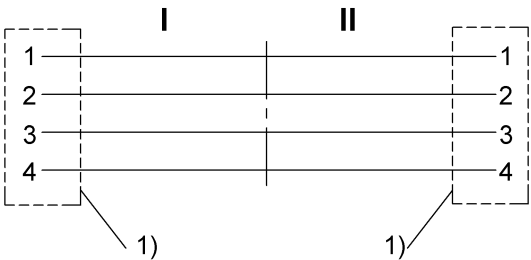
PIN 1: yellow

PIN 2: white

PIN 3: orange

PIN 4: blue

Wiring Diagrams



1) Shield on cover nut