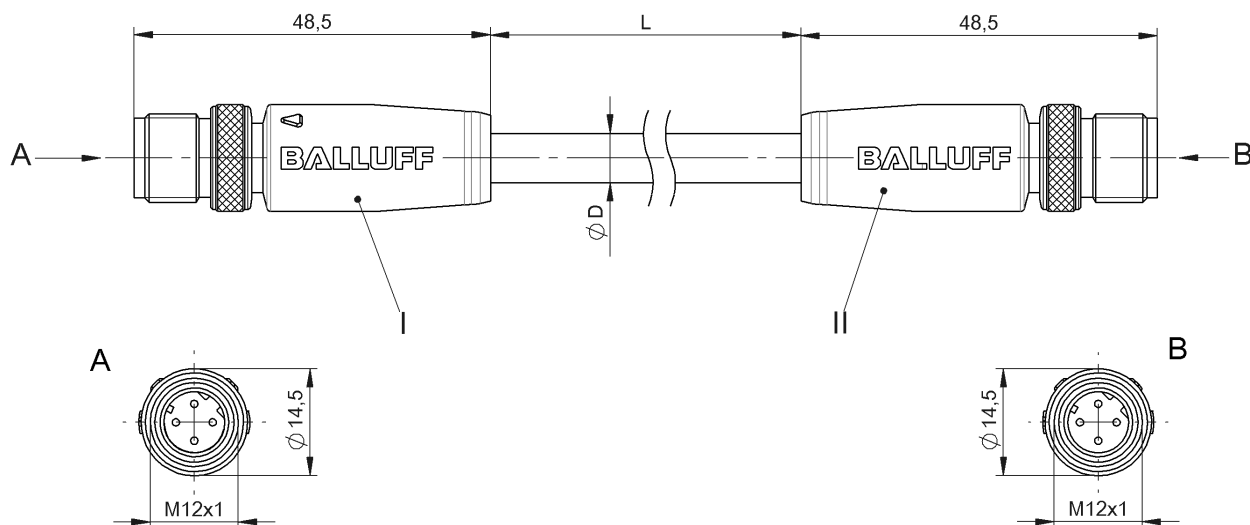


Double-Ended Cordsets  
**BCC M414-M414-6D-331-PS54N2-210**  
**Order Code: BCC0JFP**

**BALLUFF**



4MT5  
(CYJV CABLE ASSEMBLY)



### Electrical connection

|                                     |                                                 |
|-------------------------------------|-------------------------------------------------|
| Bending radius min., fixed cable    | 5 x D                                           |
| Bending radius min., flexible cable | 15 x D                                          |
| Cable                               | PUR Shielded green, 21 m, Drag chain compatible |
| Cable diameter D                    | 6.70 mm ±0.30 mm                                |
| Cable, bending cycles min.          | 2 million                                       |
| 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  | 250 VDC / 250 VAC |
| Rated current (40 °C) | 4.0 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   |

### General data

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

### 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                                       |

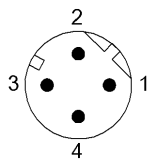
### Mechanical data

|                                         |                       |
|-----------------------------------------|-----------------------|
| Acceleration max., drag chain           | 2 m/s <sup>2</sup>    |
| Cable jacket, color                     | green                 |
| Cable length L                          | 21.00 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                   |

Remarks

Cable construction acc. to UL-AWM Style 20236  
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

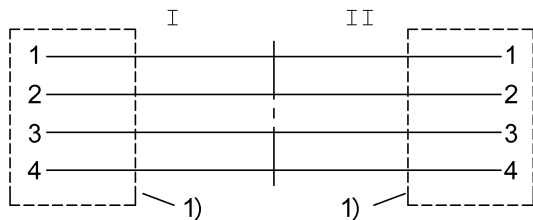
PIN 1: yellow

PIN 2: white

PIN 3: orange

PIN 4: blue

Wiring Diagrams



1) Shield on cover nut