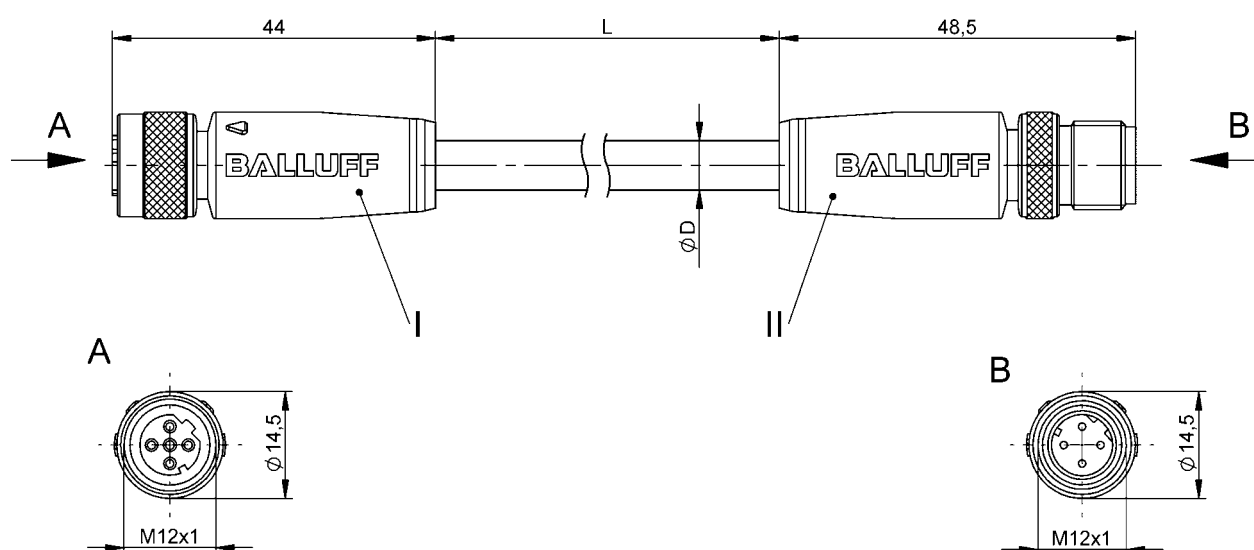


## Double-Ended Cordsets

BCC M415-M414-3D-338-ES24N9-250

Order Code: BCC0J62

**BALLUFF**

## Basic features

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

## Electrical connection

|                                     |                                               |
|-------------------------------------|-----------------------------------------------|
| Bending radius min., flexible cable | 10 x D                                        |
| Cable                               | TPE Shielded Red, 25 m, drag chain compatible |
| Cable diameter D                    | 6.10 mm $\pm$ 0.25 mm                         |
| Cable, bending cycles min.          | 10 mil.                                       |
| Cable, note                         | Ethernet, CAT 5E                              |
| Conductor cross-section             | 24 AWG                                        |
| Connection 1                        | M12x1-Female, straight, 5-pin, D-coded        |
| Connection 2                        | M12x1-Male, straight, 4-pin, D-coded          |
| Number of conductors                | 4                                             |
| System                              | Molded/Molded                                 |

## Electrical data

|                             |                         |
|-----------------------------|-------------------------|
| Cable rated voltage AC max. | 600 V                   |
| Cable rated voltage DC max. | 600 V                   |
| Conductor construction      | 2x2 twisted-pair        |
| Conductor resistance        | $\leq$ 26.0 Ohm/1000 ft |
| Coupling resistance max.    | 100 Ohm $\pm$ 15 Ohm    |
| Operating capacitance       | 13.5 pF/ft              |
| Operating voltage Ub        | 60 VDC                  |
| Rated current (40 °C)       | 1.5 A                   |
| Transfer rate               | 10/100 Mbit/s           |

## Environmental conditions

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

## Material

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

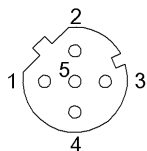
## Mechanical data

|                           |                       |
|---------------------------|-----------------------|
| Cable jacket, color       | Red                   |
| Cable length L            | 25.00 m               |
| Cable properties          | drag chain compatible |
| Tightening torque pigtail | 0.6 Nm/0.6 Nm         |

Remarks

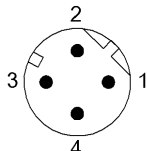
Cable construction acc. to UL CMX Outdoor or AWM Style 2463  
Enclosure rating per IEC 60529, only in screwed state with the associated mating piece.  
360° shield on cover nut

Connector Drawings



I

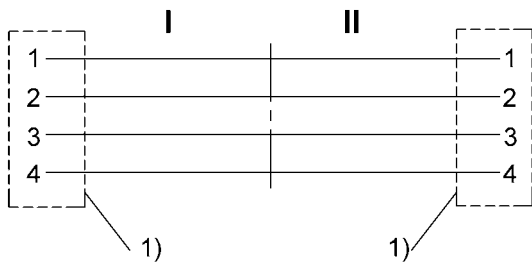
PIN 1: white/orange  
PIN 2: white/green  
PIN 3: orange  
PIN 4: green  
PIN 5: not used



II

PIN 1: white/orange  
PIN 2: white/green  
PIN 3: orange  
PIN 4: green

Wiring Diagrams



1) Shield on cover nut