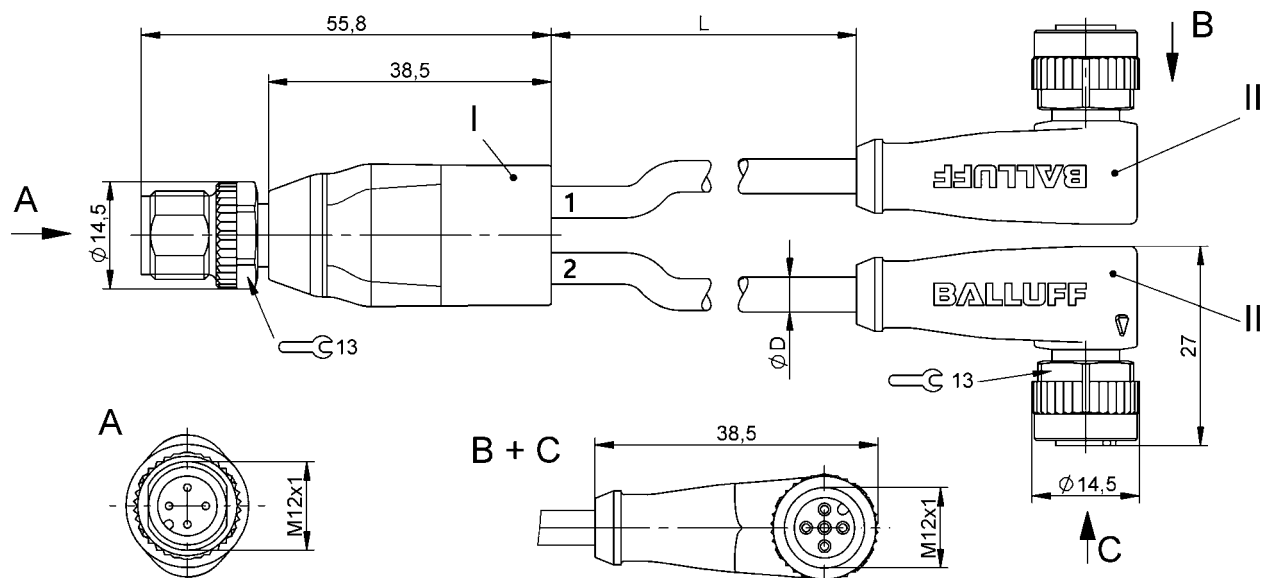


BCC M414-M425-M425-U2028-006

Order Code: BCC0CA0

# BALLUFF



## Basic features

|                     |      |
|---------------------|------|
| Approval/Conformity | CE   |
|                     | WEEE |

## Electrical connection

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| Bending radius min., fixed cable    | 5 x D                                |
| Bending radius min., flexible cable | 10 x D                               |
| Cable diameter D                    | 4.30 mm ±0.20 mm                     |
| Cable, bending cycles min.          | 5 mil.                               |
| Cable, torsion stress               | ±180°/m                              |
| Conductor cross-section             | 0.34 mm <sup>2</sup>                 |
| Connection 1                        | M12x1-Male, straight, 4-pin, A-coded |
| Connection 2                        | M12x1-Female, angled, 5-pin, A-coded |
| Connection 3                        | M12x1-Female, angled, 5-pin, A-coded |
| Connector 01, version               | straight                             |
| Connector 02, version               | angled                               |
| Connector 03, version               | angled                               |
| Number of conductors                | 3/3                                  |
| Number of pins                      | 4/5/5                                |
| System                              | Molded/Molded/Molded                 |

### Electrical data

|                         |                   |
|-------------------------|-------------------|
| Operating voltage $U_b$ | 250 VDC / 250 VAC |
| Rated current (40 °C)   | 4.0 A             |

## Environmental conditions

|                                             |                                     |
|---------------------------------------------|-------------------------------------|
| Cable temperature UL max., fixed routing    | 80 °C                               |
| Cable temperature UL max., flexible routing | 80 °C                               |
| Cable temperature, drag chain               | -25...60 °C                         |
| Cable temperature, fixed routing            | -50...90 °C                         |
| Cable temperature, flexible routing         | -25...90 °C                         |
| IP rating                                   | IP67, IP68, IP69K/IP67, IP68, IP69K |

## Material

|                          |                                           |
|--------------------------|-------------------------------------------|
| Cable jacket, material   | PUR                                       |
| Material contact carrier | PUR/PUR/PUR                               |
| Material contacts        | Brass/Bronze/Bronze                       |
| Material cover nut       | Die-cast zinc/Die-cast zinc/Die-cast zinc |
| Material grip            | PUR/PUR/PUR                               |

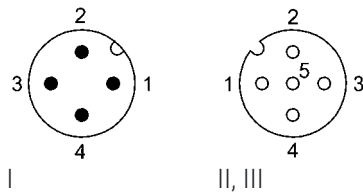
## Mechanical data

|                                         |                       |
|-----------------------------------------|-----------------------|
| Acceleration max., drag chain           | 5 m/s <sup>2</sup>    |
| Cable jacket, color                     | black                 |
| Cable length L                          | 0.60 m                |
| Cable properties                        | drag chain compatible |
| Horizontal travel permitted, drag chain | 5 m                   |
| Tightening torque pigtail               | 0.6 Nm/0.6 Nm/0.6 Nm  |
| Traverse speed max., drag chain         | 200 m/min             |
| Vertical travel permitted, drag chain   | 5 m                   |

Remarks

Enclosure rating per IEC 60529, only in screwed state with the associated mating piece.  
Halogen-free per DIN VDE 0472 Part 815  
Cable construction acc. to UL-AWM Style 20549  
Flame resistance per IEC 60332-2-2  
Silicone-free

Connector Drawings



Wiring Diagrams

