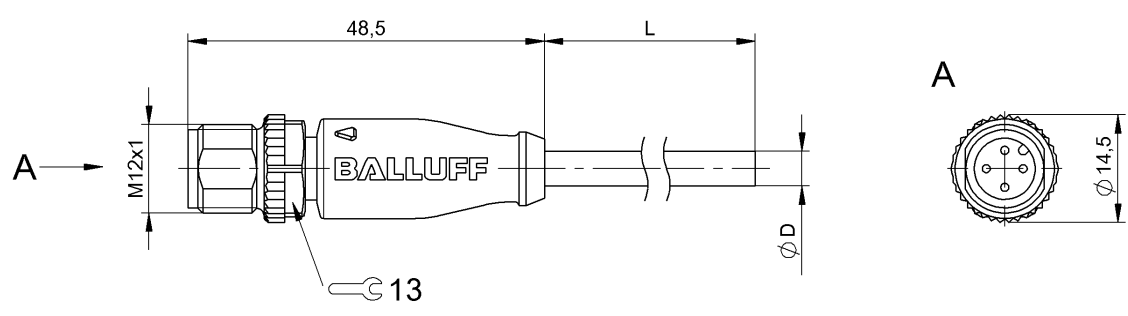


Single-Ended Cordsets  
BCC M414-0000-2A-003-PW0434-100  
Order Code: BCC0AK0



Basic features

|                     |                     |
|---------------------|---------------------|
| Application         | Welding area        |
| Approval/Conformity | CE<br>cULus<br>WEEE |

Electrical connection

|                                     |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| Bending radius min., fixed cable    | 5 x D                                                             |
| Bending radius min., flexible cable | 10 x D                                                            |
| Cable                               | PUR welding spark resistant black,<br>10 m, drag chain compatible |
| Cable diameter D                    | 4.30 mm ±0.10 mm                                                  |
| Cable, bending cycles min.          | 10 mil.                                                           |
| Cable, torsion stress               | ±360°/m                                                           |
| Conductor cross-section             | 0.34 mm <sup>2</sup>                                              |
| Connection                          | M12x1-Male, straight, 4-pin, A-<br>coded                          |
| Connector configuration             | Straight                                                          |
| Number of conductors                | 4                                                                 |
| Number of pins                      | 4                                                                 |
| System                              | Molded                                                            |

Electrical data

|                                  |                   |
|----------------------------------|-------------------|
| Operating voltage U <sub>b</sub> | 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 |

Interface

|                  |               |
|------------------|---------------|
| Switching output | Complementary |
|------------------|---------------|

Material

|                             |                         |
|-----------------------------|-------------------------|
| Cable jacket material, note | welding spark resistant |
| Cable jacket, material      | PUR                     |
| Material contact carrier    | PUR                     |
| Material contacts           | Brass                   |
| Material cover nut          | Die-cast zinc           |
| Material grip               | PUR                     |

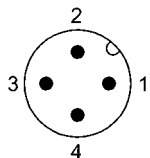
Mechanical data

|                                         |                       |
|-----------------------------------------|-----------------------|
| Acceleration max., drag chain           | 5 m/s <sup>2</sup>    |
| Cable jacket, color                     | black                 |
| Cable length L                          | 10.00 m               |
| Cable properties                        | drag chain compatible |
| Horizontal travel permitted, drag chain | 5 m                   |
| Tightening torque pigtail               | 0.6 Nm                |
| Traverse speed max., drag chain         | 200 m/min             |
| Vertical travel permitted, drag chain   | 2 m                   |

Remarks

Cable construction acc. to UL-AWM Style 20549  
Halogen-free per DIN VDE 0472 Part 815  
Silicone-free  
Flame resistance per UL FT2  
Enclosure rating per IEC 60529 or 20653, only in screwed state with the associated mating piece.

Connector Drawings



PIN 1: brown  
PIN 2: white  
PIN 3: blue  
PIN 4: black

Wiring Diagrams

