

Double-Ended Cordsets  
**BCC M425-M414-3A-650-PW3434-003**  
**Order Code: BCC0878**

**BALLUFF**



**Basic features**

Application	Welding area
Approval/Conformity	CE cULus WEEE

**Display/Operation**

Function indicator (Pin 2)	LED white
Function indicator (Pin 4)	LED yellow
Power indicator	LED green/no

**Electrical connection**

Bending radius min., fixed cable	5 x D
Bending radius min., flexible cable	10 x D
Cable	PUR welding spark resistant Orange, 0.3 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 1	M12x1-Female, angled, 5-pin, A-coded
Connection 2	M12x1-Male, straight, 4-pin, A-coded
Number of conductors	4
System	Molded/Molded

**Electrical data**

Operating voltage U <sub>b</sub>	30 VDC
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...80 °C
IP rating	IP67, IP68, IP69K/IP67, IP68, IP69K

**Interface**

Switching output	PNP NO/NC antivalent
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**Material**

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

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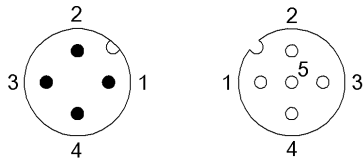
**Mechanical data**

<b>Acceleration max., drag chain</b>	5 m/s <sup>2</sup>	<b>Horizontal travel permitted, drag chain</b>	5 m
<b>Cable jacket, color</b>	Orange	<b>Tightening torque pigtail</b>	0.6 Nm/0.6 Nm
<b>Cable length L</b>	0.30 m	<b>Traverse speed max., drag chain</b>	200 m/min
<b>Cable properties</b>	drag chain compatible	<b>Vertical travel permitted, drag chain</b>	2 m

**Remarks**

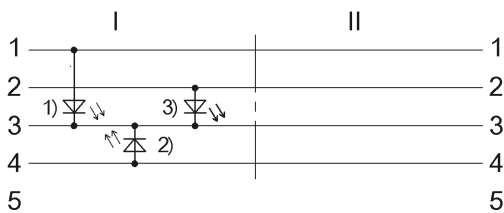
Cable construction acc. to UL-AWM Style 20549  
 Halogen-free per DIN VDE 0472 Part 815  
 Silicone-free  
 Flame resistance per UL FT2  
 Enclosure rating per IEC 60529 or 20653, only in screwed state with the associated mating piece.

**Connector Drawings**



- |              |                 |
|--------------|-----------------|
| <b>II</b>    | <b>I</b>        |
| PIN 1: brown | PIN 1: brown    |
| PIN 2: white | PIN 2: white    |
| PIN 3: blue  | PIN 3: blue     |
| PIN 4: black | PIN 4: black    |
|              | PIN 5: not used |

**Wiring Diagrams**



- 1) Green LED = Power
- 2) Yellow LED = Function
- 3) LED white = Function