



## CAB-M8-4P-FN00-1m-R-UL

Connection cable M8 socket 4-POL  
with open cable end  
Robotic-Cable, UL approved



Made in GERMANY © evotron 2018-08

### Properties, application areas

Due to its properties, this cable with M8 round connector can be used in the many fields of automation technology.

- Suitable for cable carriers
  - high dynamic load capacity
  - 5 million bending cycles
  - mechanically robust cable sheath
- Suitable for robots
  - high torsional resistance up to  $\pm 180^\circ / m$
  - 2 million torsion cycles
- High current capability  
Compared to traditional M8 sensor cables, this low-resistance cable has high current-carrying capacity, making it particularly suitable for low-loss transmission of power pulses in the flash mode of LED lighting.
- Chemical resistance
  - good resistance against oil, gasoline and chemicals
- Thermal resistance  
flame resistant according to UL 1581 VW1 / CSAFT1 / IEC 60332-1 und IEC 332-2-2

### Pin assignment of the M8 socket

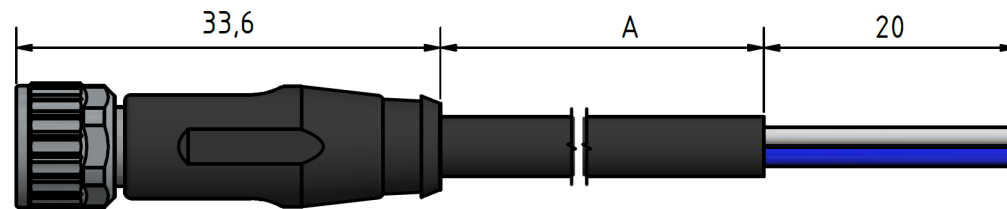


front view

### Pin assignment and color coding of the wires

<b>PIN 1</b>	brown	
<b>PIN 2</b>	white	
<b>PIN 3</b>	blue	
<b>PIN 4</b>	black	

### Dimensions



Cable length without connector = 3000 mm

All dimensions in mm

### Technical Data

#### Mechanical Parameters

Cable length (without connector)	1.0 m + 5%
Number of wires	4
Material conductor	bar Cu wire
Outer diameter cable	4.9 mm $\pm$ 5%
Material jacket	PUR
Color jacket	black
Bending radius fixed	5 x Cable - $\emptyset$
Bending radius at moving	10 x Cable - $\emptyset$
Bending cycles	max. $5 \times 10^6$
Torsional	$\pm 180^\circ / m$
Torsion cycles	max. $2 \times 10^6$
Diameter core including insulation	1.4 mm $\pm$ 5%
Diameter Cu conductor	0.19 mm
Cross section Cu conductor	4 x 0.5 mm <sup>2</sup>
AWG	similar AWG 20
Country of origin	Germany

#### Electrical Parameters

	Min	Nom	Max
Resistance Cu conductor 100 m @ 20 °C			3.9 Ohm
Continuous current Cu conductor @ 40 °C			5 A
Nominal voltage		50 V AC / 60 V DC	
Testing voltage AC		2500 V	

#### Thermal Parameters

	Min	Nom	Max
Temperature range fixed installation	-40 °C	20 °C	+80 °C
Temperature range at moving	-25 °C	20 °C	+80 °C
Thermal resistance	UL 1581 VW1 / CSA FT 1 / IEC 60332-1, IEC 60332-2-2		



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## Intended Use

This cable is designed to connect LED lighting, cameras, power supplies and PLC control signals to LED lighting controllers with M8 rund plugs.

Fields of application are the industrial automation technology, the laboratory metrology and the industrial image processing.

The permissible conditions and instructions for the installation and operation of the cable must be respected.



### Safety Notes

The plugging and unplugging of the cable may only be carried out in the de-energized state.

## Mounting

①

Align the M8 connector and the M8 connector axially to each other according to the marking arrows on the housing and push them into each other with slight pressure.

②

Screw the two union nuts together hand-tight.

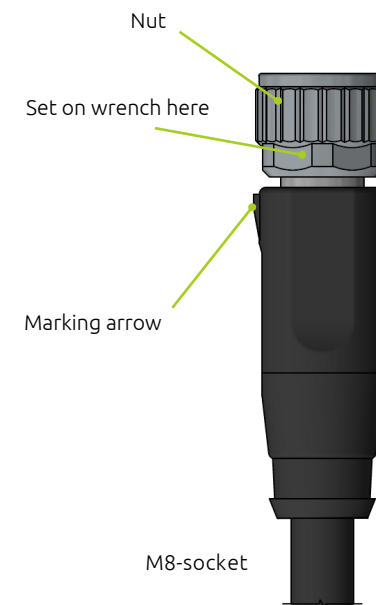
③

Using a torque wrench SW 9 and a set torque of 0.4 Nm, screw the M8 plug and the M8 socket tightly together.



### Achtung!

Too high torque when tightening the nut can damage the plug contacts.



## Technical Support

Questions concerning our products will be answered by our technical support:

[support@evotron-gmbh.de](mailto:support@evotron-gmbh.de)

+49 (0) 3681 / 4529951

## Disposal

This product is RoHS compliant.

Instructions for the proper disposal of old devices can be obtained from the manufacturer, local sales partner or relevant national authority.

Alternatively, this product may be returned to the manufacturer for proper disposal.

Packaging and packaging aids are recyclable and should always be recycled.

The product itself must not be disposed of in the domestic waste.



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