

M8

0810 0800 ... 3...

## Cordsets M8



Actuator/sensor cordset with overmolded connectors

**Cable end 1:**

M8 male, straight, A-coded, IP67

**Cable end 2:**

M8 female, straight, A-coded, IP67

**Cable:**

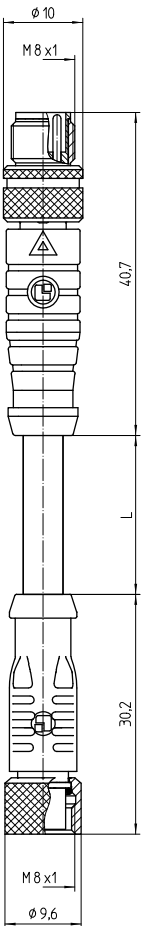
PUR, black

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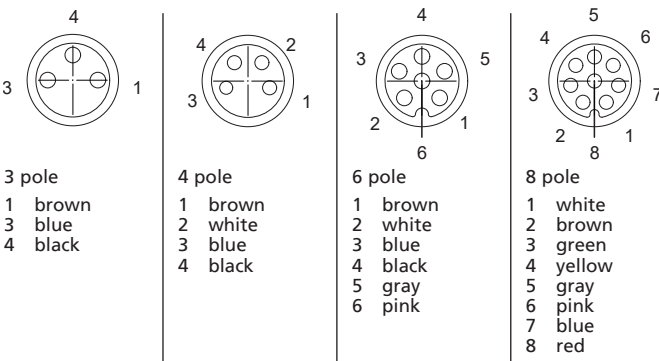
Approvals:



**M8** 0810 0800 ... 3...



Pin assignments for female M8 connectors, A-coded, front view



**Environmental conditions**

Temperature range -25 °C/+80 °C

**Materials**

Insulating body	TPU GF, HB according to UL94
Contact bush	CuZn, pre-nickel and gold-plated
Contact pin	CuZn, pre-nickel and gold-plated
Overmolding/handle	TPU <sup>1</sup>
Knurled screw	CuZn, nickel-plated
Knurled nut	CuZn, nickel-plated
Seal	FKM

<sup>1</sup> gemessen mit einem passenden Gegenstück

**Mechanical data**

Mating cycles	≥ 100
Insertion force	≤ 23 N <sup>1</sup>
Withdrawal force	≤ 23 N <sup>1</sup>
Protection class	IP67 <sup>2</sup>

<sup>1</sup> gemessen mit einem passenden Gegenstück

<sup>2</sup> according to IEC DIN EN 60529, only in locked condition with an appropriate counterpart

**Connected cable**

Outer jacket PUR, black

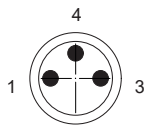
**Electrical data (at T<sub>amb</sub> 20 °C)**

Contact resistance	≤ 10 mΩ
Rated current	4 A (3-4 poles) 1.5 A (6-8 poles) (T <sub>amb</sub> 40 °C)
Rated voltage	48 V AC/60 V DC (3-4 poles) 32 V AC/DC (6-8 poles) (with pollution degree 3)
Rated impulse voltage	1.5 kV (3-4 poles) 0.8 kV (6-8 poles)
Material group	I (IEC)/0 (UL) (CTI = 600)
Overvoltage category	III
Insulation resistance	> 100 MΩ

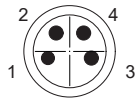
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0810 0800 ... 3...

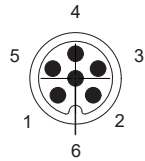
Pin assignments for male M8 connectors, A-coded, front view



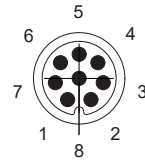
- 3 pole  
1 brown  
3 blue  
4 black



- 4 pole  
1 brown  
2 white  
3 blue  
4 black



- 6 pole  
1 brown  
2 white  
3 blue  
4 black  
5 gray  
6 pink



- 8 pole  
1 white  
2 brown  
3 green  
4 yellow  
5 gray  
6 pink  
7 blue  
8 red

Associated products

Counterparts

- |                                    |                                       |                                  |
|------------------------------------|---------------------------------------|----------------------------------|
| <a href="#">0800 ... 0...</a>      | <a href="#">0800 ... 3...</a>         | <a href="#">0800F1 ... 0...</a>  |
| <a href="#">0800F1 ... 3...</a>    | <a href="#">0805 ... 0...</a>         | <a href="#">0805 ... 3...</a>    |
| <a href="#">0805F1 ... 0...</a>    | <a href="#">0806 ... L1 0...</a>      | <a href="#">0806 ... L1 3...</a> |
| <a href="#">0820 ... T8CW ...</a>  | <a href="#">0821 ... T10CP</a>        | <a href="#">0822 ...S9 T8CP</a>  |
| <a href="#">1210 0800 ... 3...</a> | <a href="#">1210 0806 ... L1 3...</a> | <a href="#">5000 04L1 3...</a>   |
| <a href="#">5000 08L1 3...</a>     | <a href="#">5000 10L1 3...</a>        | <a href="#">5000 12L1 3...</a>   |
| <a href="#">5012 02 MFF</a>        | <a href="#">5012 04L1</a>             | <a href="#">5012 08L1</a>        |
| <a href="#">5012 10L1</a>          | <a href="#">6157 8055 S01 4W</a>      | <a href="#">6157 8055 S03 8W</a> |
| <a href="#">6157 8055 S06 16W</a>  | <a href="#">6157 8055 S09 24W</a>     |                                  |

Accessories

- |                           |                           |
|---------------------------|---------------------------|
| <a href="#">9908 CPF0</a> | <a href="#">9908 CPM0</a> |
|---------------------------|---------------------------|

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Designation	Pole Number	Connected Cable	PU (Pieces)	MDQ (Pieces)	Dimensions L (mm)
0810 0800 03 300 0,3m	3	PUR, black, 3 x 0.34 mm <sup>2</sup> (AWG 22), 910300, UL-style 20549	5	10	300
0810 0800 03 300 0,6m	3	PUR, black, 3 x 0.34 mm <sup>2</sup> (AWG 22), 910300, UL-style 20549	5	10	600
0810 0800 03 300 1m	3	PUR, black, 3 x 0.34 mm <sup>2</sup> (AWG 22), 910300, UL-style 20549	5	10	1000
0810 0800 03 300 1,5m	3	PUR, black, 3 x 0.34 mm <sup>2</sup> (AWG 22), 910300, UL-style 20549	5	10	1500
0810 0800 03 300 2m	3	PUR, black, 3 x 0.34 mm <sup>2</sup> (AWG 22), 910300, UL-style 20549	5	10	2000
0810 0800 04 301 0,6m	4	PUR, black, 4 x 0.34 mm <sup>2</sup> (AWG 22), 910301, UL-style 20549	5	10	600
0810 0800 04 301 1,5m	4	PUR, black, 4 x 0.34 mm <sup>2</sup> (AWG 22), 910301, UL-style 20549	5	10	1500
0810 0800 04 301 2m	4	PUR, black, 4 x 0.34 mm <sup>2</sup> (AWG 22), 910301, UL-style 20549	5	10	2000
0810 0800 04 301 5m	4	PUR, black, 4 x 0.34 mm <sup>2</sup> (AWG 22), 910301, UL-style 20549	1	10	5000
0810 0800 06 337 0,3m	6	PUR, black, 6 x 0.25 mm <sup>2</sup> (AWG 24), 910337, UL-style 20549	5	10	300
0810 0800 06 337 0,6m	6	PUR, black, 6 x 0.25 mm <sup>2</sup> (AWG 24), 910337, UL-style 20549	5	10	600
0810 0800 06 337 2m	6	PUR, black, 6 x 0.25 mm <sup>2</sup> (AWG 24), 910337, UL-style 20549	5	10	2000
0810 0800 06 337 5m	6	PUR, black, 6 x 0.25 mm <sup>2</sup> (AWG 24), 910337, UL-style 20549	1	10	5000
0810 0800 08 331 0,3m	8	PUR, black, 8 x 0.14 mm <sup>2</sup> (AWG 26), 910331, UL-style 20549	5	10	300
0810 0800 08 331 0,6m	8	PUR, black, 8 x 0.14 mm <sup>2</sup> (AWG 26), 910331, UL-style 20549	5	10	600
0810 0800 08 331 2m	8	PUR, black, 8 x 0.14 mm <sup>2</sup> (AWG 26), 910331, UL-style 20549	5	10	2000
0810 0800 08 331 5m	8	PUR, black, 8 x 0.14 mm <sup>2</sup> (AWG 26), 910331, UL-style 20549	1	10	5000

**Packaging:**  
in a plastic bag