

#### Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com















Sensor/actuator cables are used for wiring sensors and actuators and for transmitting data or power in various applications. The moulded cable offers connected and tested connection of the plug-in connector to the cable ex-works. The cables may be exposed to a wide range of conditions, such as humidity, dust, heat, cold, shock or vibration.

Our developers have focused specifically on this issue and designed a host of different M8 and M12 sensor-actuator cables so you are bound to find the solution you need for your application.

The M8 and M12 sensor-actuator cables are supplied as standard with brass nickel-plated nuts. However if you are looking to use our products in an extremely harsh environment, we can also supply a variant with a plastic nut. This enables use in environments where cables with nickel-plated M8 and M12 nuts would rust.

Is there something you have not managed to find or you feel needs explanation? Talk to us!

#### General ordering data

| Version    | Sensor/actuator line, Connecting line, M12 /<br>M12, Number of poles : 4, 0.6 m, pin, straight -<br>socket, 90°, Shielded: No, LED: No, Sheath<br>material: PUR, Halogen: No |
|------------|--|
| Order No.  | <u>1108880060</u>  |
| Туре       | SAIP-M12GM12W-4-0.6U   |
| GTIN (EAN) | 4032248924578  |
| Qty.       | 1 pc(s).   |



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# Technical data

| Dimensions and weights |  |
|------------------------|--|
|                        |  |

| Net weight                       | 41 g  |  |                                  |
|----------------------------------|---|--|----------------------------------|
| Technical specifications fo      | r cable   |  |                                  |
|                                  |   |  |                                  |
| Acceleration                     | 5 m/s <sup>2</sup>  | Bending cycles                                 | 12 Mio                           |
| Bending cycles at torsion        | > 5 Mio.  | Bending radius, min., moving                   | 10 x cable diameter              |
| Bending radius, min., stationary | 5 x cable diameter  | Cable length                                   | 0.6 m                            |
| Colour coding                    | brown, white, blue, black   | Configurable cable length                      | No                               |
| Core cross-section               | 0.34 mm <sup>2</sup>  | Core in accordance with UL AWM style           |                                  |
| Halogen                          | No  | Hydrolysis and microbe resistant               | Yes                              |
| Insulation                       | PP  | Irradiation crosslinked                        | No                               |
| LABS-free                        | Yes   | Length of torsion                              | 1 m                              |
| Number of poles                  | 4   | Outer cladding in accordance with UL AWM style | 20549 (80 °C / 300 V)            |
| Outside diameter                 | 4.7 mm ± 0.2 mm   | Resistance to oils                             | in accordance with IEC 60811:404 |
| Resistance to spread of flame    | In accordance with<br>UL1581 UL / CUL FT2,<br>in accordance with IEC<br>60332-2-2 | Resistant to welding beads                     | No                               |
| Sheath material                  | PUR   | Sheathing colour                               | black                            |
| Shielded                         | No  | Speed  | 5 m/s                            |
| Suitable for cable carriers      | Yes   | Temperature range, moving                      | -2580 °C                         |
| Temperature range, stationary    | -4080 °C  | Torsion resistance                             | 360 °/m                          |
| Welding spark resistance         | No  |  | ,                                |
| General technical data           |   |  |                                  |
| Coding                           | A   | Connection thread                              | M12 / M12                        |
| Contact surface                  | Gold-plated   | Housing main material                          | PUR                              |
| Insulation strength              | 10 <sup>8</sup> Ω   | LED  |                                  |
|                                  | 10 Ω<br>≥ 100   |  | No<br>3                          |
| Plugging cycles                  |   | Pollution severity                             | 3                                |
| Protection degree                | IP65, IP66, IP67, IP68,<br>when screwed in  | Rated current                                  | 4 A                              |
| Rated voltage                    | 250 V   | Temperature range of housing                   | -40 +85 ° C                      |
| Threaded ring material           | Plastic   | Tightening torque                              | M12 (plastic): 0.9 - 1.1 Nn      |
| Version                          | pin, straight - socket,   | jumpered                                       | W12 (plastic). 0.3 - 1.1 Ni      |
|                                  | 90°   |  | No                               |
| Electrical properties            |   |  |                                  |
| Insulation strength              | 10 <sup>8</sup> Ω   | Rated voltage                                  | 250 V                            |
| General standards                |   |  |                                  |
|                                  |   |  |                                  |

Connector standard

Certificate no. (cULus)

Connector standard

**Standards** 

E307231

IEC 61076-2-101

IEC 61076-2-101



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# **Technical data**

#### Classifications

| ETIM 6.0    | EC001855    | ETIM 7.0    | EC001855    |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001855    | ECLASS 9.0  | 27-06-03-11 |
| ECLASS 9.1  | 27-06-03-11 | ECLASS 10.0 | 27-06-03-11 |
| ECLASS 11.0 | 27-06-03-11 | ECLASS 12.0 | 27-06-03-11 |

## **Environmental Product Compliance**

| REACH SVHC | Lead 7439-92-1                       |
|------------|--------------------------------------|
| SCIP       | 1c533b66-fcff-4da5-b89f-fd55fbf5cb55 |

#### **Approvals**

Approvals



| ROHS                    | Conform    |
|-------------------------|------------|
| UL File Number Search   | UL Website |
| Certificate no. (cULus) | E307231    |

### **Downloads**

| Engineering Data            | WSCAD                                     |
|-----------------------------|---|
| Product Change Notification | Technical change to M12 plastic nuts - EN |
|                             | Technical change to M12 plastic nuts - DE |
| Catalogues                  | Catalogues in PDF-format                  |
| Brochures                   | FL FIELDWIRING EN                         |



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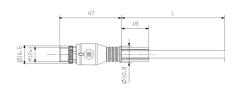
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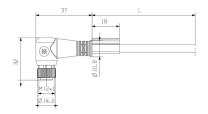
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# **Drawings**

## **Dimensioned drawing**

# **Dimensioned drawing**



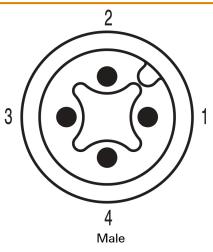


Angled socket

Male, straight

Pole scheme

### Pole scheme

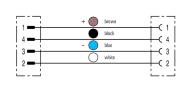




4 Socket

## Wiring diagram

The ideal tool: Screwty ® with torque function





Light, securely screwed-in round plug-in connectors. Screwty set DM / VPE: 1 / Order No.: 192000000 Adapters: M12, M12 F, M8, M8 F