

## SAIP-M12G-4-5.0U

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, One end without connector, M12, Number of poles : 4, 5 m, pin, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1108810500</a>  |
| Type       | SAIP-M12G-4-5.0U  |
| GTIN (EAN) | 4032248888191   |
| Qty.       | 1 pc(s).  |

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## Technical data

## Dimensions and weights

Net weight 164 g

## Technical specifications for 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                                   | 5 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           | 10493 (80 °C / 300 V)            |
| 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 UL1581 UL / CUL FT2, in accordance with IEC 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                      | -25...80 °C                      |
| Temperature range, stationary    | -40...80 °C  | Torsion resistance                             | 360 °/m                          |
| Welding spark resistance         | No   |  |                                  |

## General technical data

|                        |   |                              |                                 |
|------------------------|---|------------------------------|---------------------------------|
| Coding                 | A                                       | Connection thread            | M12                             |
| Contact surface        | Gold-plated                             | Housing main material        | PUR                             |
| Insulation strength    | 10 <sup>8</sup> Ω                       | LED                          | No                              |
| Plugging cycles        | ≥ 100                                   | Pollution severity           | 3                               |
| Protection degree      | IP65, IP66, IP67, IP68, 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 nut): 0.6 - 0.8 Nm |
| Version                | pin, straight                           | jumpered                     | No                              |

## Electrical properties

Insulation strength 10<sup>8</sup> Ω      Rated voltage 250 V

## General standards

Certificate no. (cULus) E307231      Connector standard IEC 61076-2-101

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## 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            | <a href="#">CAD data – STEP</a>  |
| Engineering Data            | <a href="#">WSCAD</a>  |
| Product Change Notification | <a href="#">Technical change to M12 plastic nuts - EN</a><br><a href="#">Technical change to M12 plastic nuts - DE</a> |
| Catalogues                  | <a href="#">Catalogues in PDF-format</a>   |
| Brochures                   | <a href="#">FL FIELDWIRING EN</a>  |

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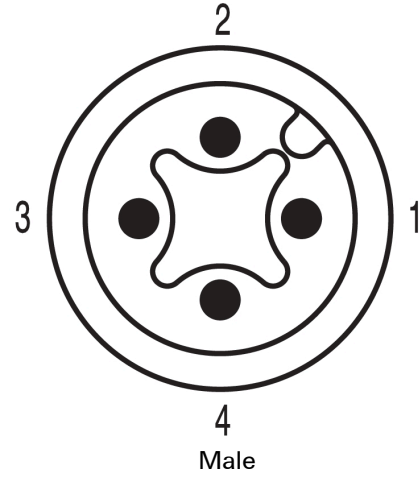
**Drawings**

**Dimensioned drawing**



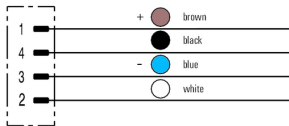
Male, straight

**Pole scheme**



Male

**Wiring diagram**



**The ideal tool: Screwty® with torque function**



Light, securely screwed-in round plug-in connectors. Screwty set DM / VPE: 1 / Order No.: 1920000000 Adapters: M12, M12 F, M8, M8 F