Data sheet

# SAIP-M12GM12SG-5-3.0U

**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 / M12, Number of poles : 5, 3 m, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No. | 2028150300 |
| Type | SAIP-M12GM12SG-5-3.0U |
| GTIN (EAN) | 4050118423532 |
| Qty. | 1 items |

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# Technical data

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |

### Dimensions and weights

| | |
|---|---|
| Net weight | 124 g |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 1c533b66-fcff-4da5-b89f-fd55fbf5cb55 |

### Technical specifications for cable

| | | | |
|---|---|---|---|
| Cable length | 3 m | Sheathing colour | black |
| Resistance to oils | Yes | Suitable for cable carriers | Yes |
| Core cross-section | 0.34 mm² | Number of wires | 5 |
| Shielded | No | Halogen | No |
| Insulation | PP | Acceleration | 5 m/s² |
| Bending radius, min., moving | 10 x cable diameter | Bending radius, min., stationary | 5 x cable diameter |
| Bending cycles | 12 Mio | Resistance to spread of flame | In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2 |
| Speed | 3.33 m/s | Sheath material | PUR |
| Cable length configurable | No | LABS-free | Yes |
| Hydrolysis and microbe resistant | Yes | Outer cladding in accordance with UL AWM style | 20549 (80 °C / 300 V) |
| Core in accordance with UL AWM style | 10493 (80 °C / 300 V) | Type is hybrid cable | No |
| Irradiation crosslinked | No | Welding spark resistance | No |
| Colour coding | brown, white, blue, black, grey | Torsion resistance | 180 °/m |
| Temperature range, stationary | -50...80 °C | Resistant to welding beads | No |
| Bending cycles at torsion | > 5 Mio. | Temperature range, moving | -25...80 °C |
| Torsional length | 1 m | Number of poles | 5 |
| Outside diameter | 4.7 mm ± 0.15 mm | | |

### General technical data

| | | | |
|---|---|---|---|
| Coding | A-coded | Connection thread | M12 / M12 |
| Contact surface | Gold-plated | LED | No |
| Housing main material | PUR | Insulation resistance | 108 Ω |
| Nominal voltage | 60 V | Nominal current | 4 A |
| Protection degree | IP65, IP66, IP67, IP68, when screwed in | Plugging cycles | ≥ 100 |
| Pollution severity | 3 | jumpered | No |
| Threaded ring material | Plastic | Temperature range of housing | -25...+85 °C |

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## Technical data

### Electrical properties

| | | | |
|---|---|---|---|
| Insulation resistance | 108 Ω | Nominal voltage | 60 V |

### General standards

| | |
|---|---|
| Connector standard | IEC 61076-2-101 |

### Standards

| | |
|---|---|
| Connector standard | IEC 61076-2-101 |

### Plug, left

| | |
|---|---|
| Plug left | connector, M12, A-coded,<br>Number of poles: 5,<br>male contact, straight,<br>unshielded |

### Plug, right

| | |
|---|---|
| Plug right | connector, M12, A-coded,<br>Number of poles: 5,<br>male contact, straight,<br>unshielded |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC001855 | ETIM 9.0 | EC001855 |
| ETIM 10.0 | EC001855 | ECLASS 14.0 | 27-06-03-11 |
| ECLASS 15.0 | 27-06-03-11 | | |

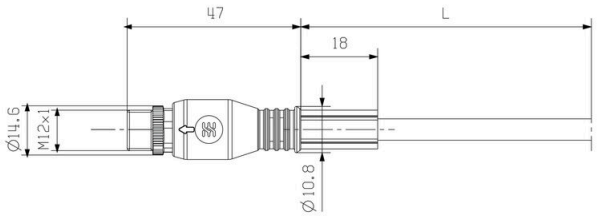
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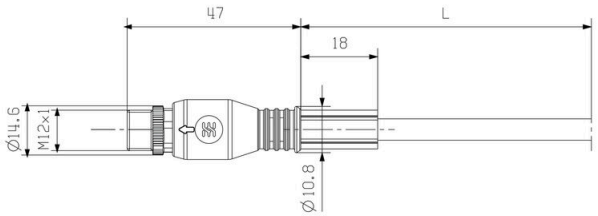
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## Drawings

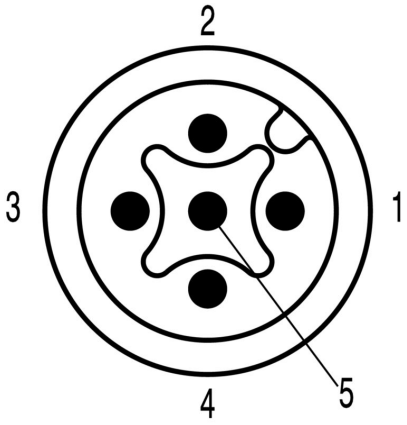
### Dimensioned drawing



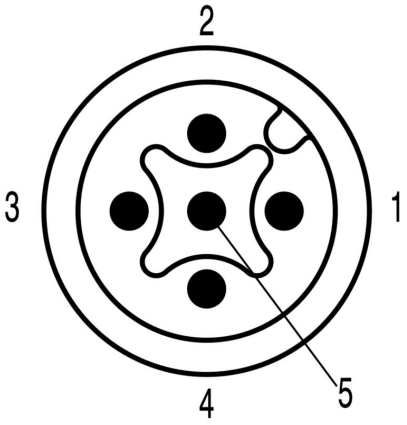

### Dimensioned drawing




### Pole scheme




### Pole scheme



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## Drawings

### 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