# SAIP-M12GM12SG-5-10U

**Weidmüller Interface GmbH & Co. KG**
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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

| | |
|---|---|
| Type | SAIP-M12GM12SG-5-10U |
| Order No. | 2028151000 |
| Version | Sensor/actuator line, Connecting line, M12 / M12, Number of poles : 5, 10 m, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| GTIN (EAN) | 4050118423488 |
| Qty. | 1 pc(s). |

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## Technical data

### Dimensions and weights

| | |
|---|---|
| Net weight | 387 g |

### Environmental Product Compliance

| | |
|---|---|
| REACH SVHC | Lead 7439-92-1 |

### Technical specifications for cable

| | | | |
|---|---|---|---|
| Number of poles | 5 | Core cross-section | 0.34 mm² |
| Outside diameter | 5 mm ± 0.2 mm | Cable length | 10 m |
| Shielded | No | Insulation | PP |
| Colour coding | brown, white, blue, black, grey | Sheath material | PUR |
| Sheathing colour | black | Halogen | No |
| Temperature range, moving | -25...80 °C | Temperature range, stationary | -40...80 °C |
| Core in accordance with UL AWM style | 10493 (80 °C / 300 V) | Outer cladding in accordance with UL AWM style | 20233 (80 °C / 300 V) |
| Suitable for cable carriers | Yes | Torsion resistance | 360 °/m |
| Bending radius, min., stationary | 5 x cable diameter | Bending radius, min., moving | 10 x cable diameter |
| Acceleration | 5 m/s² | Speed | 5 m/s |
| Bending cycles | 2 Mio | Resistant to welding beads | No |
| Configurable cable length | No | Hydrolysis and microbe resistant | Yes |
| LABS-free | Yes | Resistance to oils | in accordance with IEC 60811:404 |
| Resistance to spread of flame | In accordance with UL1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2 | | |

### General technical data

| | | | |
|---|---|---|---|
| AF size | 12 mm | Connection thread | M12 / M12 |
| Housing main material | PUR | Threaded ring material | Plastic |
| Protection degree | IP65, IP66, IP67, IP68, when screwed in | Contact surface | Gold-plated |
| LED | No | Rated voltage | 125 V |
| Rated current | 4 A | Insulation strength | $10^8$ Ω |
| Temperature range of housing | -25...+80 °C | Plugging cycles | ≥ 100 |
| Pollution severity | 3 | jumpered | No |

### Standards

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

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC001855 | ETIM 7.0 | EC001855 |
| eClass 9.0 | 27-06-03-11 | eClass 9.1 | 27-06-03-11 |
| eClass 10.0 | 27-06-03-11 | | |

### Approvals

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

Creation date May 2, 2020 11:20:17 PM CEST

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# Technical data

### Downloads

| | |
|---|---|
| Brochure/Catalogue | FL FIELDWIRING EN |

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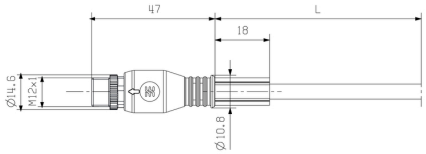
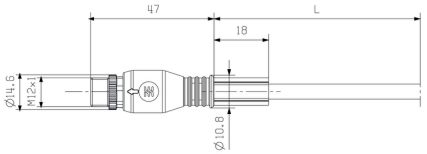
# Drawings

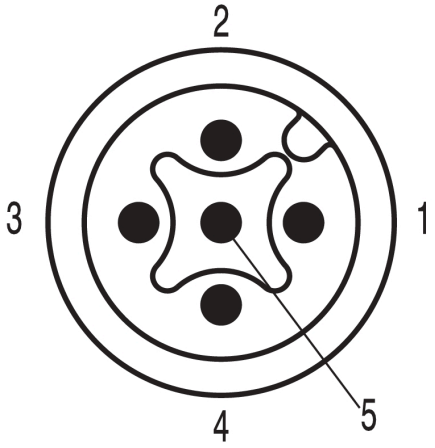
### Dimensioned drawing



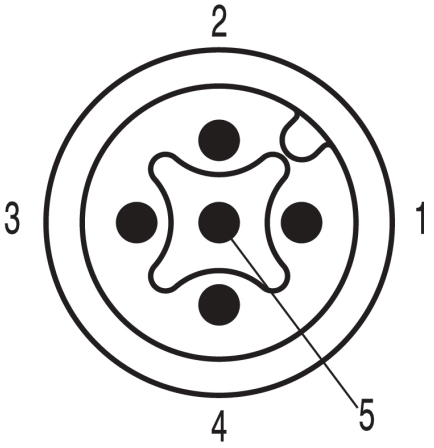

### Dimensioned drawing




### Pole scheme




### Pole scheme




### 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