

## SAIP-M12GM12G-5-15U

**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, Connecting line, M12 / M12, Number of poles : 5, 15 m, pin, straight-socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1108851500</a>  |
| Type       | SAIP-M12GM12G-5-15U   |
| GTIN (EAN) | 4050118526219   |
| Qty.       | 1 items   |

## SAIP-M12GM12G-5-15U

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

## Technical data

### Approvals

Approvals



ROHS Conform

### Dimensions and weights

Net weight 562 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                         | 15 m                  | Sheathing colour                               | black (similar to RAL 9005)  |
| Resistance to oils                   | Yes                   | Suitable for cable carriers                    | Yes  |
| Core cross-section                   | 0.34 mm <sup>2</sup>  | Number of wires                                | 5  |
| Shielded                             | No                    | Halogen  | No   |
| Insulation                           | PP                    | Acceleration                                   | 5 m/s <sup>2</sup>   |
| 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  |
| Configurable cable length            | 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) | 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...60 °C           | Length of torsion                              | 1 m  |
| Number of poles                      | 5                     | Outside diameter                               | 4.7 mm ± 0.15 mm   |

### General technical data

|                        |   |                              |                                  |
|------------------------|---|------------------------------|----------------------------------|
| Connection thread      | M12 / M12                               | Contact surface              | Gold-plated                      |
| LED                    | No                                      | Version                      | pin, straight - socket, straight |
| 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                     |

**SAIP-M12GM12G-5-15U**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

**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 | M12, A-coded, IP69, male contact, straight, Plastic, unshielded |
|-----------|---|

**Plug, right**

|            |   |
|------------|---|
| Plug right | M12, A-coded, IP69, female contact, straight, Plastic, 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 |             |             |

**SAIP-M12GM12G-5-15U**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

**Drawings**

**Dimensioned drawing**



Male, straight

**Dimensioned drawing**



Straight socket

**Pole scheme**



Male

**Pole scheme**



Socket

# 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