

## SAIV-M12BG-2/4-15U

**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 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 stainless-steel nut. This enables use in environments where cables with nickel-plated M12 nuts would rust and cables with a plastic nut are unsuitable for mechanical reasons.

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, 15 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1939411500</a>   |
| Type       | SAIV-M12BG-2/4-15U   |
| GTIN (EAN) | 4032248615698  |
| Qty.       | 1 items  |

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## Technical data

### Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate no. (cULus) | E307231                    |

### Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 409 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                 |
| Resistance to oils                             | in accordance with IEC 60811:404   | Suitable for cable carriers          | Yes                   |
| Core cross-section                             | 0.34 mm <sup>2</sup>   | 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                                | 5 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, blue, black   | Torsion resistance                   | 360 °/m               |
| Temperature range, stationary                  | -40...80 °C  | Resistant to welding beads           | No                    |
| Bending cycles at torsion                      | > 5 Mio.   | Temperature range, moving            | -25...80 °C           |
| Length of torsion                              | 1 m  | Number of poles                      | 4                     |
| Outside diameter                               | 4.3 mm ± 0.2 mm  |                                      |                       |

### General technical data

|                              |                         |                        |   |
|------------------------------|-------------------------|------------------------|---|
| Coding                       | A-coded                 | Connection thread      | M12                                     |
| Contact surface              | Gold-plated             | LED                    | No                                      |
| Version                      | Female socket, straight | Housing main material  | PUR                                     |
| Insulation resistance        | 108 Ω                   | Nominal voltage        | 250 V                                   |
| Nominal current              | 4 A                     | Protection degree      | IP65, IP66, IP67, IP68, when screwed in |
| Plugging cycles jumpered     | ≥ 100<br>2/4            | Pollution severity     | 3                                       |
| Temperature range of housing | -25...+85 °C            | Threaded ring material | Stainless steel 1.4404 (316L)           |
|                              |                         | Tightening torque      | M12: 0.8 - 1.2 Nm                       |

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### Electrical properties

|                       |       |                 |       |
|-----------------------|-------|-----------------|-------|
| Insulation resistance | 108 Ω | Nominal voltage | 250 V |
|-----------------------|-------|-----------------|-------|

### General standards

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

### Standards

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

### Plug, left

|           |   |
|-----------|---|
| Plug left | M12, A-coded, IP69,<br>female contact, straight,<br>Plastic, unshielded |
|-----------|---|

### Plug, right

|            |                    |
|------------|--------------------|
| Plug right | free conductor end |
|------------|--------------------|

### 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 |             |             |

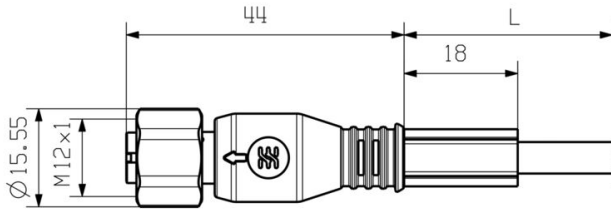
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**Drawings**

**Dimensioned drawing**



Straight socket

**Pole scheme**



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.: 1920000000 Adapters: M12, M12 F, M8, M8 F

