

**SAIL-M12BG-4S5.0U****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.

Our sensor cables come with 360° shielding which provides protection against electromagnetic interference. 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, Female socket, straight, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1812540500</a>                                                                                                                                         |
| Type       | SAIL-M12BG-4S5.0U                                                                                                                                                  |
| GTIN (EAN) | 4032248438389                                                                                                                                                      |
| Qty.       | 1 pc(s).                                                                                                                                                           |

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**Technical data****Dimensions and weights**

|            |         |
|------------|---------|
| Net weight | 214.6 g |
|------------|---------|

**Technical specifications for cable**

|                                      |                                                                          |                                                |                                  |
|--------------------------------------|--------------------------------------------------------------------------|------------------------------------------------|----------------------------------|
| Acceleration                         | 5 m/s <sup>2</sup>                                                       | Bending cycles                                 | 2 Mio                            |
| Bending radius, min., moving         | 10 x cable diameter                                                      | Bending radius, min., stationary               | 5 x cable diameter               |
| Cable length                         | 5 m                                                                      | Colour coding                                  | black, brown, white, blue        |
| 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                              |
| Number of poles                      | 4                                                                        | Outer cladding in accordance with UL AWM style | 20549 (80 °C / 300 V)            |
| Outside diameter                     | 5.4 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                             | Yes                                                                      | Speed                                          | 200 m/s                          |
| Suitable for cable carriers          | Yes                                                                      | Temperature range, moving                      | -25...80 °C                      |
| Temperature range, stationary        | -40...80 °C                                                              | Torsion resistance                             | 0 °/m                            |
| Welding spark resistance             | No                                                                       |                                                |                                  |

**General technical data**

|                        |                                         |                              |                   |
|------------------------|-----------------------------------------|------------------------------|-------------------|
| Coding                 | A-coded                                 | 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 | -25...+85 °C      |
| Threaded ring material | Diecast zinc                            | Tightening torque            | M12: 0.8 - 1.2 Nm |
| Version                | Female socket, 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 |
|-------------------------|---------|--------------------|-----------------|

**Standards**

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

**Plug, left**

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

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## Technical data

## Plug, right

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001855    | ETIM 7.0    | EC001855    |
| ETIM 8.0    | EC001855    | ETIM 9.0    | 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 | ECLASS 13.0 | 27-06-03-11 |
| ECLASS 14.0 | 27-06-03-11 |             |             |

## Environmental Product Compliance

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

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate no. (cULus) | E307231    |

## Downloads

|                  |                                          |
|------------------|------------------------------------------|
| Engineering Data | <a href="#">CAD data – STEP</a>          |
| Catalogues       | <a href="#">Catalogues in PDF-format</a> |
| Brochures        | <a href="#">FL FIELDWIRING EN</a>        |

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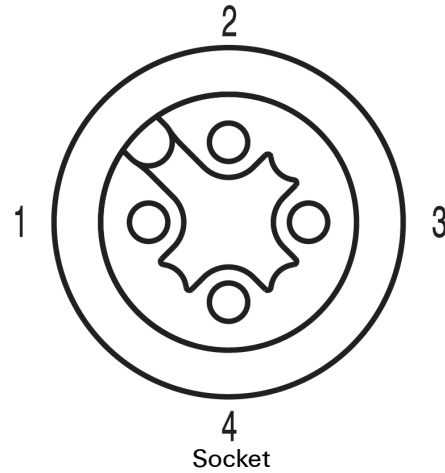
[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

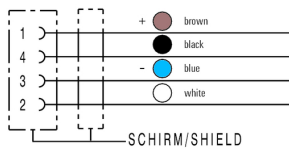
## Dimensioned drawing



## Pole scheme



## Wiring diagram



## The ideal tool: Screwty<sup>®</sup> 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