

**SAIL-M12BG-8S0.5U****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 : 8, 0.5 m, Female socket, straight, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1890520050</a>                                                                                                                                           |
| Type       | SAIL-M12BG-8S0.5U                                                                                                                                                    |
| GTIN (EAN) | 4032248605217                                                                                                                                                        |
| Qty.       | 1 pc(s).                                                                                                                                                             |

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

Net weight 39 g

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**Technical specifications for cable**

|                                                |                                                    |        |
|------------------------------------------------|----------------------------------------------------|--------|
| Acceleration                                   | 5 m/s²                                             |        |
| Bending cycles                                 | 1 mill.                                            |        |
| Bending radius, min., moving                   | 12 x cable diameter                                |        |
| Bending radius, min., stationary               | 5 x cable diameter                                 |        |
| Cable length                                   | 0.5 m                                              |        |
| Colour coding                                  | blue, red, white, brown, green, yellow, grey, pink |        |
| Configurable cable length                      | No                                                 |        |
| Core cross-section                             | 0.25 mm²                                           |        |
| Halogen                                        | No                                                 |        |
| Housing main material                          | PUR                                                |        |
| Insulation                                     | PP                                                 |        |
| Number of poles                                | 8                                                  |        |
| Number of poles                                | 8                                                  |        |
| Outer cladding in accordance with UL AWM style | 20549 (80 °C / 300 V)                              |        |
| Outer diameter                                 | 6.3 ± 0.2 mm                                       |        |
| Outside diameter                               | 6.3 mm ± 0.2 mm                                    |        |
| Outside diameter                               | Diameter                                           | 6.3 mm |
|                                                | Signs                                              | ±      |
|                                                | Tolerance                                          | 0.2 mm |
| Resistant to welding beads                     | No                                                 |        |
| Sheath material                                | PUR                                                |        |
| Sheathing colour                               | black                                              |        |
| Shielded                                       | Yes                                                |        |
| Speed                                          | 100 m/min                                          |        |
| Suitable for cable carriers                    | Yes                                                |        |
| Temperature range, moving                      | -25...80 °C                                        |        |
| Temperature range, moving, max.                | 80 °C                                              |        |
| Temperature range, moving, min.                | -25 °C                                             |        |
| Temperature range, stationary                  | -40...80 °C                                        |        |
| Temperature range, stationary, max.            | 80 °C                                              |        |
| Temperature range, stationary, min.            | -40 °C                                             |        |
| Torsion resistance                             | 360 °/m                                            |        |

**General technical data**

|                        |                         |                              |                   |
|------------------------|-------------------------|------------------------------|-------------------|
| Coding                 | A                       | 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      | IP67, when screwed in   | Rated current                | 2 A               |
| Rated voltage          | 30 V                    | Temperature range of housing | -25...+80 °C      |
| Threaded ring material | Brass, nickel-plated    | Tightening torque            | M12: 0.8 - 1.2 Nm |
| Version                | Female socket, straight | jumpered                     | No                |

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|             |             |             |             |
|-------------|-------------|-------------|-------------|
| 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 | ECLASS 11.0 | 27-06-03-11 |

**Approvals**

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E307231 |

**Downloads**

|                  |                              |
|------------------|------------------------------|
| Engineering Data | <a href="#">STEP</a>         |
| Engineering Data | <a href="#">EPLAN, WSCAD</a> |

## SAIL-M12BG-8S0.5U

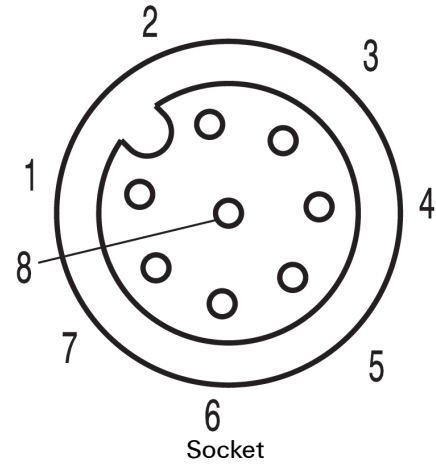
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# Drawings

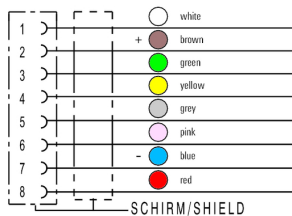
## Dimensioned drawing

## 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