

## SAIL-M12BG-8S20U

**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, 20 m, Female socket, straight, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">1890522000</a>  |
| Type       | SAIL-M12BG-8S20U  |
| GTIN (EAN) | 4050118121964   |
| 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 | 1118 g |
|------------|--------|

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | e8d8af70-4c85-4483-bc8c-9bc5b598e2a9 |

## Technical specifications for cable

|  |                       |                                  |  |
|--|-----------------------|----------------------------------|--|
| Cable length                                   | 20 m                  | Sheathing colour                 | black  |
| Suitable for cable carriers                    | Yes                   | Core cross-section               | 0.25 mm <sup>2</sup>                               |
| Shielded                                       | Yes                   | Halogen                          | No   |
| Insulation                                     | PP                    | Acceleration                     | 5 m/s <sup>2</sup>                                 |
| Bending radius, min., moving                   | 12 x cable diameter   | Bending radius, min., stationary | 5 x cable diameter                                 |
| Bending cycles                                 | 1 mill.               | Speed                            | 100 m/s  |
| Sheath material                                | PUR                   | Configurable cable length        | No   |
| Outer cladding in accordance with UL AWM style | 20549 (80 °C / 300 V) | Irradiation crosslinked          | No   |
| Welding spark resistance                       | No                    | Colour coding                    | blue, red, white, brown, green, yellow, grey, pink |
| Torsion resistance                             | 360 °/m               | Temperature range, stationary    | -40...80 °C  |
| Resistant to welding beads                     | No                    | Temperature range, moving        | -25...80 °C  |
| Number of poles                                | 8                     | Outside diameter                 | 6.3 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              | 30 V           |
| Nominal current        | 2 A                               | AF size                      | 13 mm          |
| Protection degree      | IP67, when screwed in, IP65, IP66 | Plugging cycles              | ≥ 100          |
| Pollution severity     | 3                                 | jumpered                     | No             |
| Threaded ring material | Brass, nickel-plated              | Temperature range of housing | -40 ... +85 °C |
| Tightening torque      | M12: 1.0 Nm                       |                              |                |

## Electrical properties

|                       |       |                 |      |
|-----------------------|-------|-----------------|------|
| Insulation resistance | 108 Ω | Nominal voltage | 30 V |
|-----------------------|-------|-----------------|------|

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**Technical data**

**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, IP67,<br>female contact, straight,<br>Plastic, shielded |
|-----------|---|

**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**

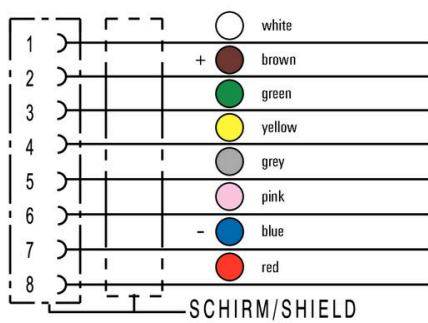
**Dimensioned drawing**



**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

