

## SAIL-M12GM8G-3-1.0U

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.

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 / M8, Number of poles : 3, 1 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">9457770100</a>  |
| Type       | SAIL-M12GM8G-3-1.0U   |
| GTIN (EAN) | 4032248661022   |
| Qty.       | 1 items   |

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

|          |        |            |         |
|----------|--------|------------|---------|
| Diameter | 3.6 mm | Net weight | 29.92 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                         | 1 m  | Sheathing colour                               | black (similar to RAL 9005) |
| Resistance to oils                   | Yes  | Suitable for cable carriers                    | Yes                         |
| Core cross-section                   | 0.25 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                                 | 5 Mio                       |
| Resistance to spread of flame        | in accordance with IEC 60332-2-2, In accordance with UL1581 UL / CUL FT2 | Speed  | 3.33 m/s                    |
| Sheath material                      | PUR  | Configurable cable length                      | No                          |
| 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   | Drain wire integrated                          | No                          |
| Colour coding                        | brown, blue, black   | 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                                | 3                           |
| Outside diameter                     | 3.6 mm + 0.15 mm   |  |                             |

## General technical data

|                              |                                  |                        |   |
|------------------------------|----------------------------------|------------------------|---|
| Coding                       | M12 = A-coded / M8 = none        | Connection thread      | M12 / M8                                      |
| 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, IP69 |
| Plugging cycles jumpered     | ≥ 100                            | Pollution severity     | 3   |
| Temperature range of housing | -25...+85 °C                     | Threaded ring material | Brass, nickel-plated, Diecast zinc            |
|                              |                                  | Tightening torque      | M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm           |

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**Technical data**

**Electrical properties**

|                       |       |                 |      |
|-----------------------|-------|-----------------|------|
| Insulation resistance | 108 Ω | Nominal voltage | 60 V |
|-----------------------|-------|-----------------|------|

**General standards**

|                    |                                  |
|--------------------|----------------------------------|
| Connector standard | IEC 61076-2-101, IEC 61076-2-104 |
|--------------------|----------------------------------|

**Standards**

|                    |                                  |
|--------------------|----------------------------------|
| Connector standard | IEC 61076-2-101, IEC 61076-2-104 |
|--------------------|----------------------------------|

**Plug, left**

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

**Plug, right**

|            |  |
|------------|--|
| Plug right | M8, IP69, female contact, straight, Plastic, LED, 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 |             |             |

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**Drawings**

**Dimensioned drawing**

**Dimensioned drawing**

Male, straight

Straight socket

**Pole scheme**

**Pole scheme**



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# 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