Data sheet

# SAIL-M12BG-12-20U

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

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, One end without connector, M12, Number of poles : 12, 20 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No. | 1879712000 |
| Type | SAIL-M12BG-12-20U |
| GTIN (EAN) | 4032248850730 |
| Qty. | 1 items |

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# Technical data

### Approvals

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

### Dimensions and weights

| | |
|---|---|
| Net weight | 738 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 | 0.14 mm² |
| Shielded | No | Halogen | No |
| Insulation | PP | Acceleration | 5 m/s² |
| Bending radius, min., moving | 10 x cable diameter | Bending radius, min., stationary | 5 x cable diameter |
| Bending cycles | 1 mill. | Speed | 5 m/s |
| Sheath material | PUR | Cable length configurable | No |
| 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 | yellow, pink, grey / pink, green, white, blue, violet, brown, red, grey, red / blue, black | Torsion resistance | 180 °/m |
| Temperature range, stationary | -40...80 °C | Resistant to welding beads | No |
| Temperature range, moving | -25...80 °C | Number of poles | 12 |
| Outside diameter | 5.6 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 | 1.5 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 | | |

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## Technical data

### Electrical properties

| | | | |
|---|---|---|---|
| Insulation resistance | 108 Ω | Nominal voltage | 30 V |
| Rated current | 2 A (8-pole) / 1.5 A (12-pole) | | |

### 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, female contact, straight, 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 | | |

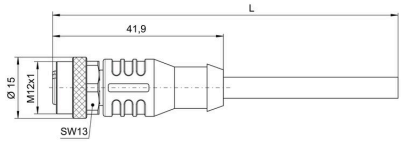
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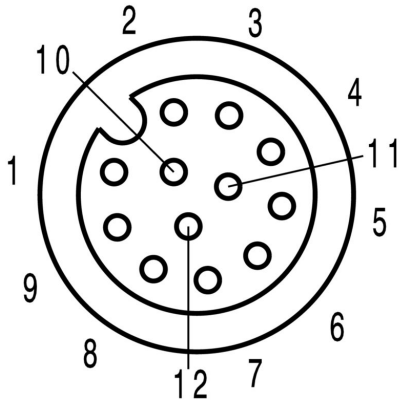
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## Drawings

### Dimensioned drawing

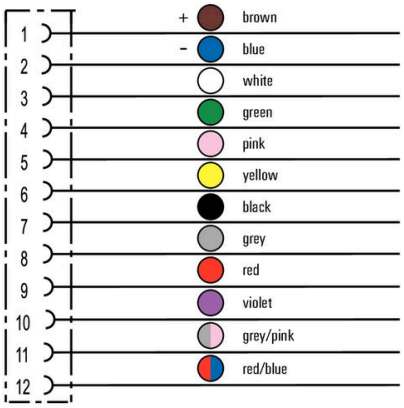



### Pole scheme




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

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## Drawings