Data sheet

# SAIL-M12GM12W-5-0.9U

**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, Connecting line, M12 / M12, Number of poles : 5, 0.9 m, pin, straight - socket, 90°, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No. | 9457270090 |
| Type | SAIL-M12GM12W-5-0.9U |
| GTIN (EAN) | 4032248228966 |
| 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 | 51.57 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 | 0.9 m | Sheathing colour | black |
| Resistance to oils | Yes | Suitable for cable carriers | Yes |
| Core cross-section | 0.34 mm² | Number of wires | 5 |
| 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 | 12 Mio | Resistance to spread of flame | In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2 |
| Speed | 3.3 m/s | Sheath material | PUR |
| Cable length configurable | No | LABS-free | Yes |
| 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) | Type is hybrid cable | No |
| Irradiation crosslinked | No | Welding spark resistance | No |
| Colour coding | brown, white, blue, black, grey | 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 |
| Torsional length | 1 m | Number of poles | 5 |

### General technical data

| | | | |
|---|---|---|---|
| Coding | A-coded | Connection thread | M12 / M12 |
| Contact surface | Gold-plated | LED | No |
| Version | pin, straight - socket, 90° | Housing main material | PUR |
| Insulation resistance | 108 Ω | Contact material | Copper alloy |
| Nominal voltage | 60 V | Nominal current | 4 A |
| AF size | 12 mm | Protection degree | IP65, IP66, IP67, IP68, when screwed in |
| Plugging cycles | ≥ 100 | Pollution severity | 3 |
| Threaded ring material | Diecast zinc | Temperature range of housing | -25...+85 °C |
| Tightening torque | 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 | Certificate no. (cULus) | E307231 |

### Standards

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

### Plug, left

| | |
|---|---|
| Plug left | M12, A-coded, Number of poles: 5, male contact, straight, plug, unshielded |

### Plug, right

| | |
|---|---|
| Plug right | M12, A-coded, Number of poles: 5, female contact, angled 0°, plug, 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 | | |

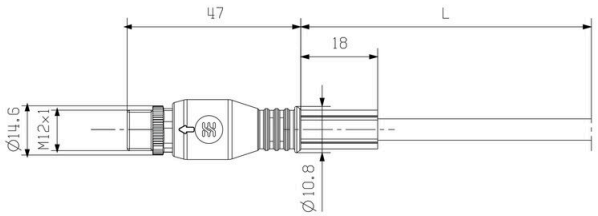
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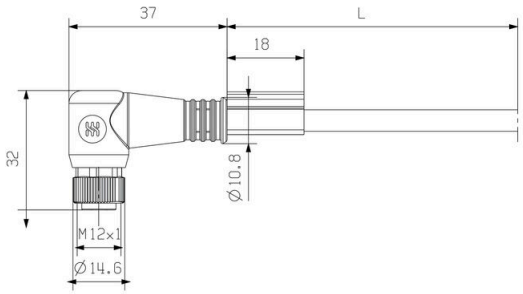
## Drawings

### Dimensioned drawing



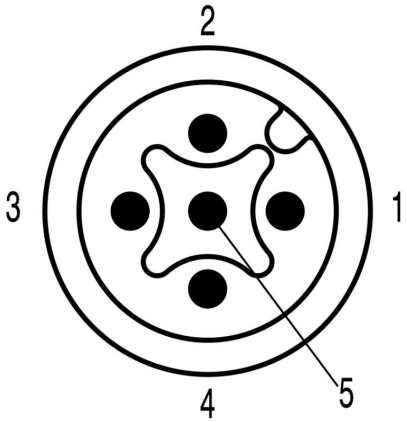

Male, straight

### Dimensioned drawing



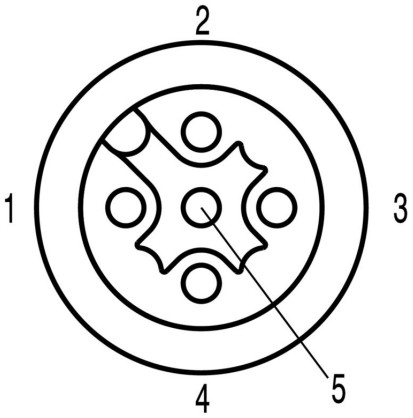

Angled socket

### Pole scheme




Male

### Pole scheme




Socket

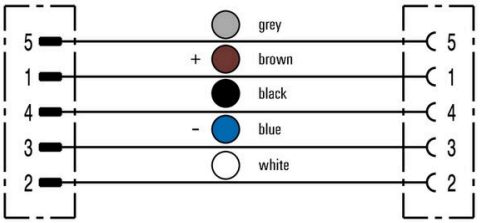
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## Drawings

### 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