Data sheet

# SAIL-M12BW-4S50U

**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.
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, Connecting line, M12, Number of poles : 4, 50 m, Socket, angled, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No |
| Order No. | 1808975000 |
| Type | SAIL-M12BW-4S50U |
| GTIN (EAN) | 4050118516159 |
| Qty. | 1 items |

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# Technical data

### Approvals

| | |
|---|---|
| Approvals | |
| ROHS | Conform |

### Dimensions and weights

| | |
|---|---|
| Net weight | 2012 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 | 50 m | Sheathing colour | black |
| Resistance to oils | Yes | Suitable for cable carriers | Yes |
| Core cross-section | 0.34 mm² | Number of wires | 4 |
| Shielded | Yes | Halogen | No |
| Insulation | PP | Cable Material | PUR halogen-free |
| Acceleration | 5 m/s² | Bending radius, min., moving | 10 x cable diameter |
| Bending radius, min., stationary | 5 x cable diameter | Bending cycles | 2 Mio |
| Resistance to spread of flame | in accordance with IEC 60332-1 / UL 1581 FT2, in accordance with IEC 60332-2-2 | Speed | 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 | Drain wire integrated | No |
| Colour coding | brown, white, blue, black | Torsion resistance | 180 °/m |
| Temperature range, stationary | -40...80 °C | Resistant to welding beads | No |
| Bending cycles at torsion | > 1 Mio. | Temperature range, moving | -25...80 °C |
| Torsional length | 1 m | Sheath material hygroscopic | No |
| Number of poles | 4 | Outside diameter | 5 mm ± 0.2 mm |

### General technical data

| | | | |
|---|---|---|---|
| Coding | A-coded | Connection thread | M12 |
| Contact surface | Gold-plated | LED | No |
| Version | Socket, angled | Housing main material | PUR |
| Insulation resistance | 109 Ω | Contact material | Copper alloy |
| Nominal voltage | 250 V | Nominal current | 4 A |
| Protection degree | IP65, IP66, IP67, IP68, when screwed in | Plugging cycles | ≥ 100 |
| Pollution severity | 3 | Threaded ring material | Brass, nickel-plated |
| 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 | 109 Ω | Nominal voltage | 250 V |

### General standards

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

### Standards

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

### Plug, left

| | |
|---|---|
| Plug left | M12, A-coded, Number of poles: 4, female contact, angled 0°, plug, 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 | | |

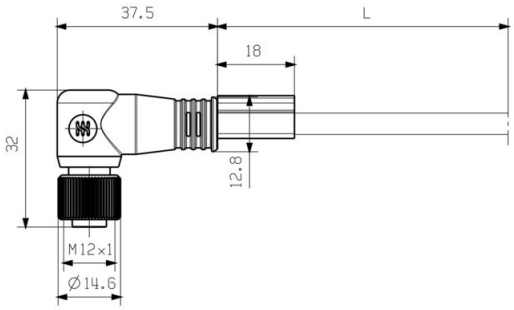
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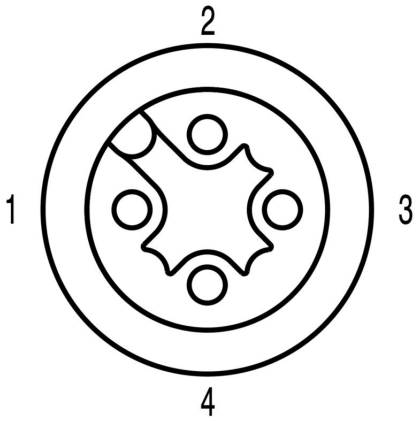
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## Drawings

### Dimensioned drawing

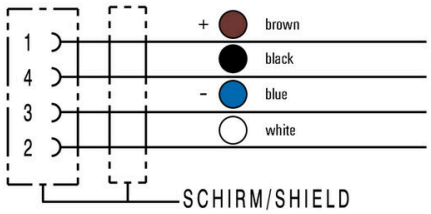



### Pole scheme




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