

**SAIL-M12GM8W-3-6.1U****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, 6.1 m, pin, straight - socket, 90°deg., Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
| Order No.  | <a href="#">9457980610</a>                                                                                                                                             |
| Type       | SAIL-M12GM8W-3-6.1U                                                                                                                                                    |
| GTIN (EAN) | 4050118624274                                                                                                                                                          |
| Qty.       | 1 pc(s).                                                                                                                                                               |

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**Technical data****Dimensions and weights**

|            |          |
|------------|----------|
| Net weight | 128.48 g |
|------------|----------|

**Technical specifications for cable**

|                                                |                                  |                                      |                                                                          |
|------------------------------------------------|----------------------------------|--------------------------------------|--------------------------------------------------------------------------|
| Acceleration                                   | 5 m/s <sup>2</sup>               | Bending cycles                       | 12 Mio                                                                   |
| Bending cycles at torsion                      | > 5 Mio.                         | Bending radius, min., moving         | 10 x cable diameter                                                      |
| Bending radius, min., stationary               | 5 x cable diameter               | Cable length                         | 6.1 m                                                                    |
| Colour coding                                  | brown, blue, black               | Configurable cable length            | No                                                                       |
| Core cross-section                             | 0.25 mm <sup>2</sup>             | Core in accordance with UL AWM style | 10493 (80 °C / 300 V)                                                    |
| Halogen                                        | No                               | Hydrolysis and microbe resistant     | Yes                                                                      |
| Insulation                                     | PP                               | Irradiation crosslinked              | No                                                                       |
| Length of torsion                              | 1 m                              | Number of poles                      | 3                                                                        |
| Outer cladding in accordance with UL AWM style | 20549 (80 °C / 300 V)            | Outside diameter                     | 4.1 mm ± 0.2 mm                                                          |
| Resistance to oils                             | in accordance with IEC 60811:404 | Resistance to spread of flame        | in accordance with IEC 60332-2-2, In accordance with UL1581 UL / CUL FT2 |
| Resistant to welding beads                     | No                               | Sheath material                      | PUR                                                                      |
| Sheathing colour                               | black                            | Shielded                             | No                                                                       |
| Speed                                          | 5 m/s                            | Suitable for cable carriers          | Yes                                                                      |
| Temperature range, moving                      | -25...80 °C                      | Temperature range, stationary        | -40...80 °C                                                              |
| Torsion resistance                             | 360 °/m                          | Welding spark resistance             | No                                                                       |

**General technical data**

|                              |                                 |                        |                                    |
|------------------------------|---------------------------------|------------------------|------------------------------------|
| Connection thread            | M12 / M8                        | Contact surface        | Gold-plated                        |
| Housing main material        | PUR                             | Insulation strength    | 10 <sup>8</sup> Ω                  |
| LED                          | No                              | Plugging cycles        | ≥ 100                              |
| Pollution severity           | 3                               | Protection degree      | IP69, IP65, IP66                   |
| Rated current                | 4 A                             | Rated voltage          | 60 V                               |
| Temperature range of housing | -25...+85 °C                    | Threaded ring material | Diecast zinc, Brass, nickel-plated |
| Version                      | pin, straight - socket, 90°deg; |                        |                                    |

**Electrical properties**

|                     |                   |               |      |
|---------------------|-------------------|---------------|------|
| Insulation strength | 10 <sup>8</sup> Ω | Rated voltage | 60 V |
|---------------------|-------------------|---------------|------|

**Plug, left**

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

**Plug, right**

|            |                                                                |
|------------|----------------------------------------------------------------|
| Plug right | M8, IP69, female contact, angled 90°, Plastic, LED, unshielded |
|------------|----------------------------------------------------------------|

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|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001855    | ETIM 7.0    | EC001855    |
| ETIM 8.0    | EC001855    | ETIM 9.0    | EC001855    |
| ETIM 10.0   | EC001855    | ECLASS 9.0  | 27-06-03-11 |
| ECLASS 9.1  | 27-06-03-11 | ECLASS 10.0 | 27-06-03-11 |
| ECLASS 11.0 | 27-06-03-11 | ECLASS 12.0 | 27-06-03-11 |
| ECLASS 13.0 | 27-06-03-11 | ECLASS 14.0 | 27-06-03-11 |
| ECLASS 15.0 | 27-06-03-11 |             |             |

**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 |

**Approvals**

Approvals



|                 |                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a> |
| ROHS            | Conform                                                                                                                                                                                                                                                                                                                                                 |

**Downloads**

|                  |                                          |
|------------------|------------------------------------------|
| Engineering Data | <a href="#">CAD data – STEP</a>          |
| Catalogues       | <a href="#">Catalogues in PDF-format</a> |

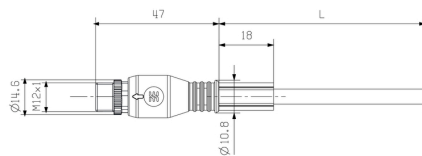
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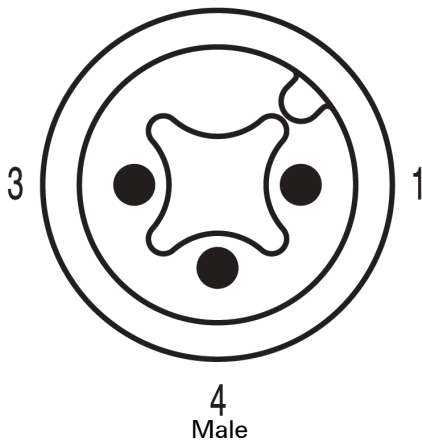
## Drawings

### Dimensioned drawing



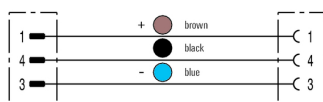
Male, straight

### Pole scheme

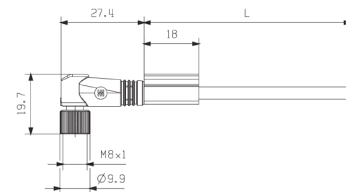


4  
Male

### Wiring diagram

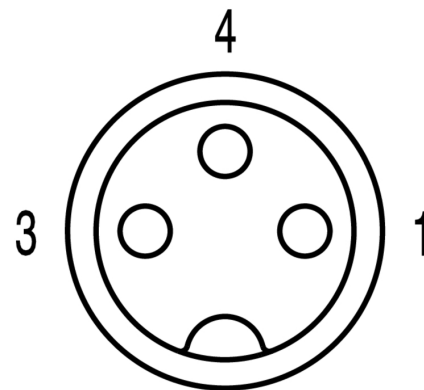


### Dimensioned drawing



Angled socket

### Pole scheme



Socket

### 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