

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.

The M8 and M12 sensor-actuator cables are supplied as standard with brass nickel-plated nuts. However if you are looking to use our products in an extremely harsh environment, we can also supply a variant with a plastic nut. This enables use in environments where cables with nickel-plated M8 and M12 nuts would rust. Is there something you have not managed to find or you

feel needs explanation? Talk to us!

General ordering data

| Sensor/actuator line, Connecting line, M12 / M12, Number of poles : 3, 1 m, pin, straight - socket, 90°, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
|--|
| <u>1150620100</u> |
| SAIP-M12GM12W-2/4-1.0U |
| 4032248937684 |
| 1 pc(s). |
| |

Technical data



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| Dimensions and weights | | | | |
|--------------------------------------|---|--|----------------------------------|--|
| Net weight | 40 g | | | |
| Technical specifications fo | r cable | | | |
| | - / - | | | |
| Acceleration | 5 m/s ² | 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 | <u>1 m</u> | |
| Colour coding | brown, blue, black | Configurable cable length | No | |
| Core cross-section | 0.34 mm ² | Core in accordance with UL AWM style | | |
| Halogen Insulation | No PP | Hydrolysis and microbe resistant Irradiation crosslinked | Yes No | |
| LABS-free | Yes | Length of torsion | 1 m | |
| Number of poles | Tes | Outer cladding in accordance with UL | 1 111 | |
| | 3 | AWM style | 20549 (80 °C / 300 V) | |
| Outside diameter | $4.3 \text{ mm} \pm 0.2 \text{ mm}$ | Resistance to oils | in accordance with IEC 60811:404 | |
| Resistance to spread of flame | In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2 | 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 | -2580 °C | |
| Temperature range, stationary | -4080 °C | Torsion resistance | 360 °/m | |
| Welding spark resistance | No | | | |
| General technical data | | | | |
| Coding | A | Connection thread | M12 / M12 | |
| Contact surface | Gold-plated | Housing main material | PUR | |
| Insulation strength | 10 ⁸ Ω | LED | | |
| | ≥ 100 | | <u>No</u> 3 | |
| Plugging cycles Protection degree | IP65, IP66, IP67, IP68, | Pollution severity Rated current | 3 | |
| Frotection degree | when screwed in | hated current | 4 A | |
| Rated voltage | 250 V | Temperature range of housing | -40 +85 ° C | |
| Threaded ring material | Plastic | Tightening torque | M12 (plastic): 0.9 - 1.1 Nm | |
| Version | pin, straight - socket, 90° | jumpered | 2/4 | |
| Electrical properties | | | | |
| Insulation strength | 10 ⁸ Ω | Rated voltage | 250 V | |
| General standards | | | | |
| Cartificate par (all tra) | F207221 | Compositor stop do | 150 61076 2 101 | |
| Certificate no. (cULus) | E307231 | Connector standard | IEC 61076-2-101 | |
| Standards | | | | |
| Connector standard | IEC 61076-2-101 | | | |



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| ETIM 6.0 | EC001855 | ETIM 7.0 | EC001855 |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | 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 |

Environmental Product Compliance

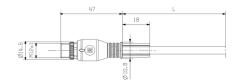
| REACH SVHC | Lead 7439-92-1 |
|------------|--------------------------------------|
| SCIP | 1c533b66-fcff-4da5-b89f-fd55fbf5cb55 |

Approvals

| Approvals | |
|-----------------------------|--|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E307231 |
| Downloads | |
| Engineering Data | WSCAD |
| Product Change Notification | Technical change to M12 plastic nuts - EN Technical change to M12 plastic nuts - DE |
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN |

Drawings

Dimensioned drawing



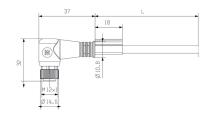


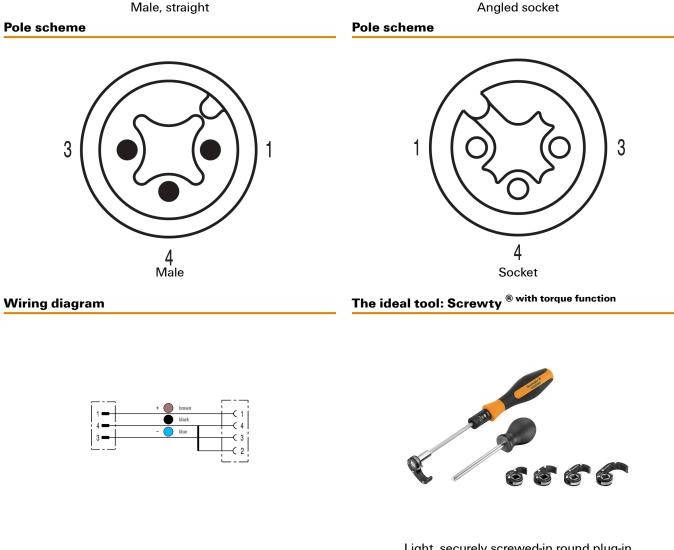
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Dimensioned drawing





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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