

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, M8, Number of poles: 4, 20 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No |
|------------|--|
| Order No. | 9457852000 |
| Туре | SAIL-M8BG-4-20U |
| GTIN (EAN) | 4032248753529 |
| Qty. | 1 pc(s). |



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Technical data

| Dimensions and weights | |
|------------------------|-------|
| | |
| Net weight | 494 g |

| 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 | 20 m |
| Colour coding | brown, white, blue, black | Configurable cable length | No |
| Core cross-section | 0.25 mm ² | Core in accordance with UL AWM style | 10493 (80 °C / 300 V |
| Halogen | No | Hydrolysis and microbe resistant | Yes |
| Insulation | PP | Irradiation crosslinked | No |
| LABS-free | Yes | Length of torsion | 1 m |
| Number of poles | 4 | Outer cladding in accordance with UL AWM style | 20549 (80 °C / 300 V |
| Outside diameter | 4.4 mm ± 0.2 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 | | |
| Contract outless | A-coded | Connection thread | M8 |
| Contact surface | Gold-plated | Housing main material | PUR |
| Insulation strength | 10 ⁸ Ω | LED | No |
| Plugging cycles | ≥ 100 | Pollution severity | 3 |
| Protection degree | IP65, IP66, IP67, IP68, when screwed in, IP69 | Rated current 4 A | |
| Rated voltage | 30 V | Temperature range of housing | -25+85 °C |
| Threaded ring material | Brass, nickel-plated | Tightening torque | M8: 0.5 - 0.6 Nm |
| Version | Female socket, straight | jumpered | No |
| | | | |
| Electrical properties | | | |
| Electrical properties Insulation strength | 10 ⁸ Ω | Rated voltage | 30 V |
| | 10 ⁸ Ω | Rated voltage | 30 V |
| Insulation strength General standards | | <u> </u> | |
| Insulation strength | 10 ⁸ Ω E307231 | Rated voltage Connector standard | 30 V IEC 61076-2-104 |
| Insulation strength General standards Certificate no. (cULus) | | <u> </u> | |

Creation date June 9, 2024 4:47:22 AM CEST

Plug left

ed

M8, IP69, female contact, straight, Plastic, unshield-



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Technical data

Plug, right

| Plug right | free conductor end | free conductor end | | |
|-----------------|--------------------|--------------------|-------------|--|
| Classifications | | | | |
| | | | | |
| ETIM 6.0 | EC001855 | ETIM 7.0 | EC001855 | |
| ETIM 8.0 | EC001855 | ETIM 9.0 | 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 | |

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 | CAD data – STEP |
|------------------|--------------------------|
| Catalogues | Catalogues in PDF-format |
| Brochures | FL FIELDWIRING EN |



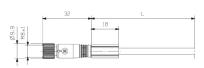
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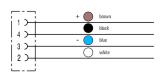
Drawings

Dimensioned drawing

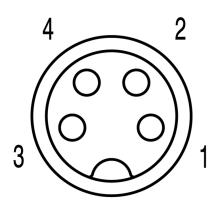


Straight socket

Wiring diagram



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