SAIL-M12GM8G-4-1.0U

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 : 4, 1 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	9456660100
Type	SAIL-M12GM8G-4-1.0U
GTIN (EAN)	4050118392623
Qty.	1 pc(s).

Creation date June 16, 2025 5:44:37 PM CEST

SAIL-M12GM8G-4-1.0U

Technical data

Dimensions and weights

Net weight	36.08 g

Technical specifications for cable

Acceleration	5 m/s²	Bending cycles	5 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	1 m
Colour coding	brown, white, blue, black	Configurable cable length	No
Core cross-section	0.25 mm²	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	20233 (80 °C / 300 V)
Outside diameter	4.4 mm ± 0.2 mm	PE function	No
Resistance to oils	Yes	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	200 m/min	Suitable for cable carriers	Yes
Temperature range, moving	-25...80 °C	Temperature range, stationary	-50...80 °C
Torsion resistance	360 °/m	Welding spark resistance	No

General technical data

AF size	12 mm	Coding	M12 = A-coded / M8 = none
Connection thread	M12 / M8	Contact material	CuZn35PB2
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, IP69, when screwed in	Rated current	4 A
Rated voltage	30 V	Temperature range of housing	-25...+85 °C
Threaded ring material	Brass, nickel-plated, Diecast zinc	Version	pin, straight - socket, straight
jumpered	No		

Electrical properties

Insulation strength	10^8 Ω	Rated voltage	30 V

General standards

Connector standard	IEC 61076-2-101, IEC 61076-2-104

Standards

Connector standard	IEC 61076-2-101, IEC 61076-2-104

Creation date June 16, 2025 5:44:37 PM CEST

SAIL-M12GM8G-4-1.0U

Technical data

Plug, left

Plug left	connector, M12, A-coded, Number of poles: 4, IP69, male contact, straight, un-shielded

Plug, right

Plug right	connector, M8, Number of poles: 4, IP69, female contact, straight, unshielded

Classifications

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	CE UKCA
Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/
ROHS	Conform

Downloads

Engineering Data	CAD data – STEP
Product Change Notification	DE - Technische Änderung zu M12 Gewindering mit 6-Kant EN - Technical change to M12 nut with additional hexagonal mounting
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN

Creation date June 16, 2025 5:44:37 PM CEST

SAIL-M12GM8G-4-1.0U

Drawings

Dimensioned drawing

Dimensioned drawing

Male, straight
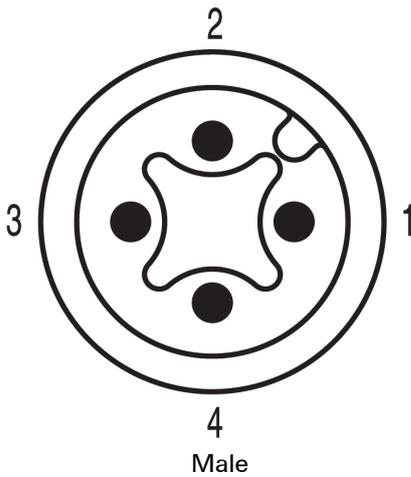
Straight socket

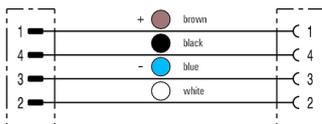**Pole scheme**

Pole scheme

Male

Socket
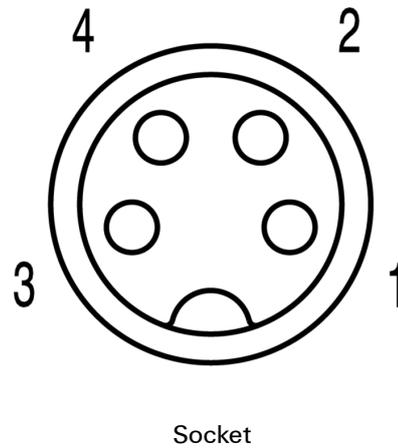
Wiring diagram

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

Creation date June 16, 2025 5:44:37 PM CEST

Catalogue status 07.06.2025 / We reserve the right to make technical changes.

4