

SAIL-ZW-M12BG-3-5.0V**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, Connecting line, M12 / M12, Number of poles : 3, 5 m, Twin cabling, pin, straight, 2x socket, straight, Shielded: No, LED: No, Sheath material: PVC, Halogen: Yes
Order No.	1171890500
Type	SAIL-ZW-M12BG-3-5.0V
GTIN (EAN)	4032248963720
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Net weight	381 g
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Technical specifications for cable

Cable length	5 m	Colour coding	brown, blue, black
Configurable cable length	No	Core cross-section	0.34 mm ²
Halogen	Yes	Insulation	PVC
Number of poles	3	Outer cladding in accordance with UL AWM style	2464 (80 °C / 300 V)
Outside diameter	4.9 mm ± 0.2 mm	Resistant to welding beads	No
Sheath material	PVC	Sheathing colour	black
Shielded	No	Suitable for cable carriers	No
Temperature range, moving	-5...80 °C	Temperature range, stationary	-30...80 °C
Torsion resistance	0 °/m	Welding spark resistance	No

General technical data

AF size	12 mm	Coding	A-coded
Connection thread	M12 / M12	Contact surface	Gold-plated
Housing main material	PUR	Insulation strength	10 ⁸ Ω
LED	No	Plugging cycles	≥ 100
Pollution severity	3	Protection degree	IP67, IP68, when screwed in, IP65, IP66
Rated current	4 A	Rated voltage	250 V
Temperature range of housing	-25...+85 °C	Threaded ring material	Diecast zinc
Tightening torque	M12: 0.8 - 1.2 Nm	Version	Twin cabling, pin, straight, 2x socket, straight
jumpered	No		

Electrical properties

Insulation strength	10 ⁸ Ω	Rated voltage	250 V
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General standards

Certificate No. (CSA)	200039-2372994	Certificate no. (cULus)	E307231
Connector standard	IEC 61076-2-101		

Standards

Connector standard	IEC 61076-2-101
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Plug, left

Plug left	M12, A-coded, IP68, male contact, straight, Plastic, unshielded
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Plug, right

Plug right	M12, A-coded, IP68, female contact, straight, Plastic, unshielded, M12, A-coded, IP68, female contact, straight, Plastic, unshielded
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Creation date August 28, 2024 3:46:02 PM CEST

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Technical data

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	27-06-03-13
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		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	1c533b66-fcff-4da5-b89f-fd55fbf5cb55
RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E307231

Downloads

Product Change Notification	DE - Technische Änderung zu M12 Gewinding mit 6-Kant EN - Technical change to M12 nut with additional hexagonal mounting
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN

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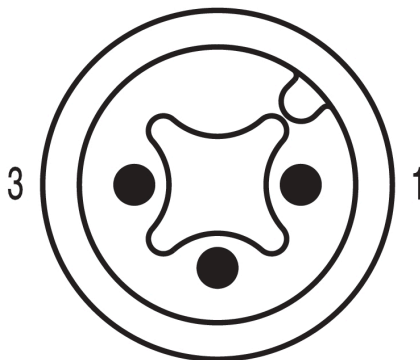
Drawings

Dimensioned drawing



Twin male connector, straight

Pole scheme



Twin male connector

Wiring diagram

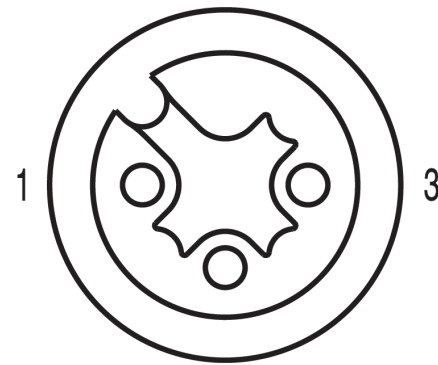


Dimensioned drawing



Straight 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

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Accessories

Screwty® cable gland tool with torque function



The ideal tool for any application

Screwty® is the ideal, all-purpose tool for tightening all common sensor and actuator cables. Even difficult-to-reach round plugs are accessible using the Screwty®. A simple turning movement tightens and loosens the connectors without the need for excessive force. The Screwty® is a unique and global solution since it fits with most cables and plugs from other vendors (over 90 %). The Screwty® consists of a handle with a conventional 1/4" adapter. Thus it can be used for all sizes: for M12 and M8 round plug-in connectors, and for M12F and M8F customisable plugs and sockets, as well as for all M23 plugs and sockets.

General ordering data

Type	SAI-SCREWTY BOX	Version	Packaging
Order No.	1939180000	Bolting tool	Plastic case
GTIN (EAN)	4032248615506		+ form
Qty.	1 pc(s).		insert
Type	SCREWTY-M12-DM	Version	Packaging
Order No.	1900001000	Cable gland tool for moulded M12 lines	Cardboard
GTIN (EAN)	4032248436408		box
Qty.	1 pc(s).		
Type	SCREWTY SW12	Version	Packaging
Order No.	2598970000	Interchangeable blade for cable gland tool	Cardboard
GTIN (EAN)	4050118781151		box
Qty.	1 pc(s).		

Tools



- Stripping tools with automatic self-adjustment
- For flexible and solid conductors
- Ideally suitable for mechanical and plant engineering, railway and rail traffic, wind energy, robot technology, explosion protection as well as marine, offshore and ship building sectors
- Stripping length adjustable via end stop
- Automatic opening of clamping jaws after stripping
- No fanning-out of individual conductors
- Adjustable to diverse insulation thicknesses
- Double-insulated cables in two process steps without special adjustment
- No play in self-adjusting cutting unit
- Long service life
- Optimised ergonomic design

General ordering data

Type	STRIPPER 6-16 RED-LINE	Version
Order No.	9203110000	Stripping and cutting tool
GTIN (EAN)	4032248541423	
Qty.	1 pc(s).	

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www.weidmueller.com**Accessories****Cutting tools**

Cutting tools for conductors up to 8 mm, 12 mm, 14 mm and 22 mm outside diameter. The special blade geometry allows pinch-free cutting of copper and aluminium conductors with minimum physical effort. The cutting tools (KT 8 to KT 22) also come with VDE and GS-tested protective insulation up to 1,000 V in accordance with EN/IEC 60900.

General ordering data

Type	KT 8	Version
Order No.	9002650000	Cutting tools, Cutting tool for one-hand operation
GTIN (EAN)	4008190020163	
Qty.	1 pc(s).	

Tools

Sheathing stripper for PVC cables

**General ordering data**

Type	AM 12	Version
Order No.	9030060000	Tools, Sheathing strippers
GTIN (EAN)	4008190337827	
Qty.	1 pc(s).	

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www.weidmueller.com**Accessories****Blank**

TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are various different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Pre-attachment of sleeves and retrofitting of tags offer excellent versatility

The special contour of TM-I allows easy assembly and secures firm positioning. They are compatible with a number of commercially available sleeves. Thanks to the MultiCard format, the tags can be printed quickly and conveniently with the PrintJet CONNECT, plotter or the STI pen.

- Easy handling of separation and installation thanks to the project marker field.
- Acknowledged and accredited marker for traffic engineering applications
- Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
- Not suited for labelling with P-Ink or STI pen in connection with CLI T sleeves

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	TM-I 18 MC NE WS	Version
Order No.	1718431044	TM-I, Insert markers, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 pc(s).	
Type	TM-I 18 MC NE GE	Version
Order No.	1718431687	TM-I, Insert markers, 18 x 4 mm, yellow
GTIN (EAN)	4008190349028	
Qty.	320 pc(s).	