

**SAIL-M12BW-12S20U**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstraße 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.

Our sensor cables come with 360° shielding which provides protection against electromagnetic interference.

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, M12, Number of poles : 12, 20 m, Socket, angled, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No
Order No.	<a href="#">1424282000</a>
Type	SAIL-M12BW-12S20U
GTIN (EAN)	4099986642539
Qty.	1 pc(s).

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

Net weight	1,000 g
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**Technical specifications for cable**

Acceleration	5 m/s <sup>2</sup>	Bending cycles	1 mill.
Bending radius, min., moving	12 x cable diameter	Bending radius, min., stationary	5 x cable diameter
Cable length		Colour coding	black, yellow, pink, grey / pink, green, white, blue, violet, brown, red, grey, red / blue
	20 m	Core cross-section	0.14 mm <sup>2</sup>
Configurable cable length	No	Halogen	No
Core in accordance with UL AWM style	10493 (80 °C / 300 V)	Irradiation crosslinked	No
Insulation	PP	Outer cladding in accordance with UL AWM style	20549 (80 °C / 300 V)
Number of poles	12	Sheathing colour	black
Sheath material	PUR	Speed	100 m/s
Shielded	Yes	Temperature range, moving	-30...90 °C
Suitable for cable carriers	Yes	Torsion resistance	0 °/m
Temperature range, stationary	-40...90 °C		

**General technical data**

AF size	13 mm	Coding	A-coded
Connection thread	M12	Contact surface	Gold-plated
Housing main material	TPU	LED	No
Pollution severity	3	Protection degree	IP65, IP66, IP67, when screwed in
Rated current	1.5 A	Rated voltage	30 V
Temperature range of housing	-40 ... +85 °C	Threaded ring material	Diecast zinc
Tightening torque	M12: 0.8 - 1.2 Nm	Version	Socket, angled
jumpered	No		

**Electrical properties**

Rated voltage	30 V
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**General standards**

Connector standard	IEC 61076-2-101
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**Standards**

Connector standard	IEC 61076-2-101
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**Plug, left**

Plug left	M12, A-coded, IP67, female contact, angled 90°, Plastic, shielded
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**Plug, right**

Plug right	free conductor end
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**Technical data****Classifications**

ETIM 6.0	EC001855
ETIM 8.0	EC001855
ETIM 10.0	EC001855
ECLASS 9.1	27-06-03-11
ECLASS 11.0	27-06-03-11
ECLASS 13.0	27-06-03-11
ECLASS 15.0	27-06-03-11

ETIM 7.0	EC001855
ETIM 9.0	EC001855
ECLASS 9.0	27-06-03-11
ECLASS 10.0	27-06-03-11
ECLASS 12.0	27-06-03-11
ECLASS 14.0	27-06-03-11

**Approvals**

Approvals



Approvals MAMID [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319222/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319260/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/)

ROHS Conform

**Environmental Product Compliance**

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	e8d8af70-4c85-4483-bc8c-9bc5b598e2a9

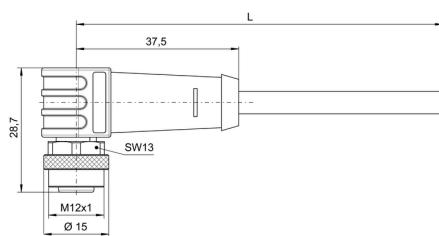
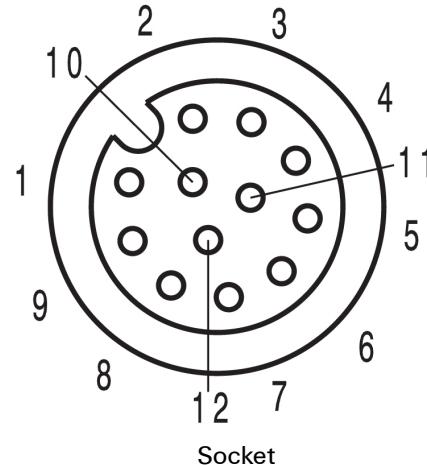
**Downloads**

Catalogues [Catalogues in PDF-format](#)

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**Drawings****Dimensioned drawing****Pole scheme****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

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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	SCREWTY-M12-DM	Version	Packaging
Order No.	<a href="#">1900001000</a>	Cable gland tool for moulded M12 lines	Cardboard box
GTIN (EAN)	4032248436408		
Qty.	1 pc(s).		
Type	SAI-SCREWTY BOX	Version	Packaging
Order No.	<a href="#">1939180000</a>	Bolting tool	Plastic case + form insert
GTIN (EAN)	4032248615506		
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.	<a href="#">9203110000</a>	Stripping and cutting tool
GTIN (EAN)	4032248541423	
Qty.	1 pc(s).	

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**Accessories****Tools**

Sheathing stripper for PVC cables

**General ordering data**

Type	AM 12	Version
Order No.	<a href="#">9030060000</a>	Tools, Sheathing strippers
GTIN (EAN)	4008190337827	
Qty.	1 pc(s).	

**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.	<a href="#">9002650000</a>	Cutting tools, Cutting tool for one-hand operation
GTIN (EAN)	4008190020163	
Qty.	1 pc(s).	

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**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.	<a href="#">1718431044</a>	TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 pc(s).	
Type	TM-I 18 MC NE GE	Version
Order No.	<a href="#">1718431687</a>	TM-I, Insert markers, 1.5 - 22 mm, 18 x 4 mm, yellow
GTIN (EAN)	4008190349028	
Qty.	320 pc(s).	