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SAIL-M8GM12G-3-1.0U

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

Type	SAIL-M8GM12G-3-1.0U
Order No.	1937950100
Version	Sensor/actuator line, Connecting line, M8 / M12, Number of poles : 3, 1 m, pin, straight - socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
GTIN (EAN)	4032248632602
Qty.	1 pc(s).

Creation date November 27, 2018 6:46:52 AM CET

SAIL-M8GM12G-3-1.0U

Technical data

Dimensions and weights

Net weight	35.88 g

Temperatures

Operating temperature, max.	80 °C	Operating temperature, min.	-25 °C

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Technical specifications for cable

Number of poles	3	Core cross-section	0.25 mm²
Outside diameter	4.1 ± 0.2 mm	Cable length	1 m
Shielded	No	Insulation	PP
Colour coding	brown, blue, black	Sheath material	PUR
Sheathing colour	Black	Halogen	No
Temperature range, moving	-25...80 °C	Temperature range, stationary	-40...80 °C
Core in accordance with UL AWM style	10493 (80 °C / 300 V)	Outer cladding in accordance with UL AWM style	20233/21198 (80 °C / 300 V)
Suitable for cable carriers	Yes	Torsion resistance	0 °/m
Bending radius, min., stationary	5 x cable diameter	Bending radius, min., moving	10 x cable diameter
Acceleration	5 m/s²	Speed	5 m/s
Bending cycles	2 Mio	Resistant to welding beads	No
Hybrid cable	No	Irradiation crosslinked	No
Configurable cable length	No		

General technical data

Version	pin, straight - socket, straight	Connection thread	M8 / M12
Housing main material	PUR	Threaded ring material	Brass, nickel-plated
Coding	M12 = A, M8 = none	Protection degree	IP65, IP66, IP67, IP68, when screwed in
Contact surface	Gold-plated	LED	No
Rated voltage	60 V	Rated current	4 A
Insulation resistance	10^8 Ω	Temperature range of housing	-25...+85 °C
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm	Plugging cycles	≥ 100
Pollution severity	3	jumpered	No

Standards

Connector standard	IEC 61076-2-101, IEC 61076-2-104	Certificate No. (cURus)	E307231

Classifications

ETIM 3.0	EC001855	ETIM 4.0	EC001855
ETIM 5.0	EC001855	ETIM 6.0	EC001855
UNSPSC	30-21-18-01	eClass 5.1	27-06-91-90
eClass 6.2	27-06-91-90	eClass 7.1	27-06-91-90
eClass 8.1	27-06-91-90	eClass 9.0	27-06-91-90
eClass 9.1	27-06-03-11		

Creation date November 27, 2018 6:46:52 AM CET

SAIL-M8GM12G-3-1.0U

Technical data

Product information

Descriptive text technical data	Chapter W includes additional technical specifications for the cable

Approvals

Approvals	EAC
ROHS	Conform

Downloads

Brochure/Catalogue	FL FIELDWIRING EN
Engineering Data	EPLAN, WSCAD

Creation date November 27, 2018 6:46:52 AM CET

SAIL-M8GM12G-3-1.0U

Drawings

Dimensioned drawing
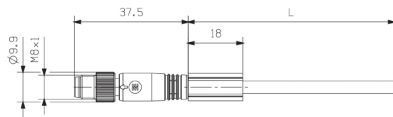
Male, straight
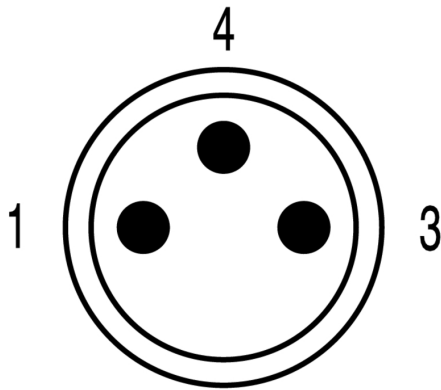
Dimensioned drawing
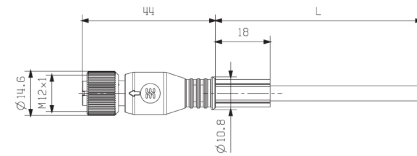
Straight socket

Pole scheme

Male

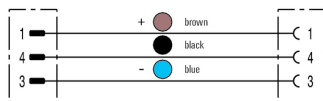### Pole scheme
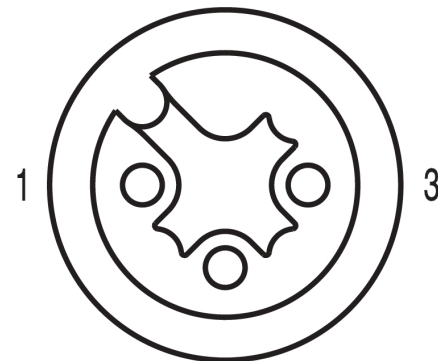
Socket

Wiring diagram

The ideal tool, the 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 November 27, 2018 6:46:52 AM CET

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SAIL-M8GM12G-3-1.0U

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	Order No.	Version	GTIN (EAN)	Qty.
Screwty-M12-DM	1900001000	Tools, Cable gland tool for moulded M12 lines	4032248436408	1 pc(s).
SAI-SCREWTY BOX	1939180000	Tools, Bolting tool	4032248615506	1 pc(s).

Creation date November 27, 2018 6:46:52 AM CET

SAIL-M8GM12G-3-1.0U

Accessories

Blank

TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are five 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 SMark laser printer, PrintJet ADVANCED, plotter, MC-Mobilo 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	Order No.	Version	GTIN (EAN)	Qty.
TM-I 18 MC NE WS	1718431044	TM-I, Insert markers, 18 x 4 mm, White	4008190349011	320 pc(s).
TM-I 18 MC NE GE	1718431687	TM-I, Insert markers, 18 x 4 mm, Yellow	4008190349028	320 pc(s).

Cutting tools for outside diameters up to 22 mm

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 also come with VDE and GS-tested protective insulation up to 1,000 V in accordance with EN/IEC 60900.

General ordering data

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

Creation date November 27, 2018 6:46:52 AM CET

SAIL-M8GM12G-3-1.0U

Accessories

Tools

- For PVC-insulated round cable
- For ribbon cable
- For UTP and STP data cables

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
AM 12	9030060000	Accessories, Sheathing strippers, UTP and STP data cables	4008190337827	1 pc(s).

Creation date November 27, 2018 6:46:52 AM CET