SAIL-M8BGR-4-3.0U

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-M8BGR-4-3.0U
Order No.	1948530300
Version	Sensor/actuator line, One end without connector, M8, Number of poles : 4, 3 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
GTIN (EAN)	4032248625215
Qty.	1 pc(s).

Creation date May 3, 2020 8:57:51 AM CEST

Weidmüller ⋺Ɛ

SAIL-M8BGR-4-3.0U

Technical data

Dimensions and weights

Net weight	108 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	4	Core cross-section	0.25 mm²
Outside diameter	4.4 mm ± 0.2 mm	Cable length	3 m
Shielded	No	Insulation	PP
Colour coding	brown, white, 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 (80 °C / 300 V)
Suitable for cable carriers	Yes	Torsion resistance	360 °/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
Configurable cable length	No	Hydrolysis and microbe resistant	Yes
LABS-free	Yes	Resistance to oils	in accordance with IEC 60811:404
Resistance to spread of flame	In accordance with UL1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2		

General technical data

AF size	12 mm	Version	Female socket, straight
Connection thread	M8	Housing main material	PUR
Threaded ring material	Diecast zinc	Coding	none
Protection degree	IP65 (in plugged condition)	Contact surface	Gold-plated
LED	No	Rated voltage	30 V
Rated current	4 A	Insulation strength	10^8 Ω
Temperature range of housing	-25...+80 °C	Plugging cycles	≥ 100
Pollution severity	3	jumpered	No

Standards

Connector standard	IEC 61076-2-104	Certificate no. (cULus)	E307231

Classifications

ETIM 6.0	EC001855	ETIM 7.0	EC001855
eClass 9.0	27-06-03-11	eClass 9.1	27-06-03-11
eClass 10.0	27-06-03-11	UNSPSC	26-12-16-13

Creation date May 3, 2020 8:57:51 AM CEST

SAIL-M8BGR-4-3.0U

Technical data

Approvals

Approvals

ROHS   Conform

Downloads

Brochure/Catalogue	FL FIELDWIRING EN
Engineering Data	EPLAN, WSCAD

SAIL-M8BGR-4-3.0U

Drawings

Dimensioned drawing

Straight socket

Wiring diagram

1	+	brown	
4		black	
3	–	blue	
2		white	
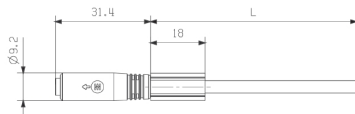
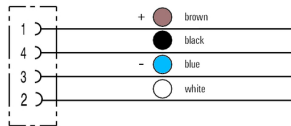### Pole scheme
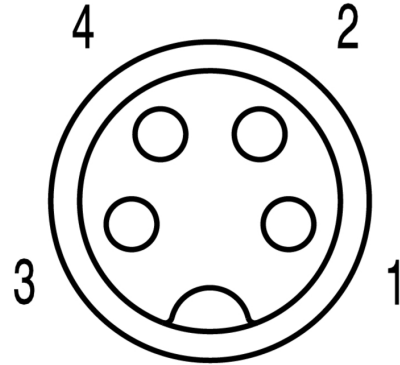
Socket

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

Creation date May 3, 2020 8:57:51 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

4

SAIL-M8BGR-4-3.0U

Accessories

Tool

Tools for stripping the sheathing from uncut power lines and outlet lines, plus screwdrivers for installing Pick-to-Light components.

General ordering data

Type	SCREWTY-M12-DM	Version	
Order No.	1900001000	Tools, Cable gland tool for moulded M12 lines	
GTIN (EAN)	4032248436408		
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, 16mm²	
GTIN (EAN)	4032248541423		
Qty.	1 pc(s).		

Creation date May 3, 2020 8:57:51 AM CEST

SAIL-M8BGR-4-3.0U

Accessories

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

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	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).		

Creation date May 3, 2020 8:57:51 AM CEST

SAIL-M8BGR-4-3.0U

Accessories

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).		

Tools

Sheathing stripper for PVC cables

General ordering data

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

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	
Order No.	1939180000	Tools, Bolting tool	
GTIN (EAN)	4032248615506		
Qty.	1 pc(s).		

Creation date May 3, 2020 8:57:51 AM CEST