Data sheet

SAIL-M12BG-8S20U

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.
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 : 8, 20 m, Female socket, straight, Shielded: Yes, LED: No, Sheath material: PUR, Halogen: No
Order No.	1890522000
Type	SAIL-M12BG-8S20U
GTIN (EAN)	4050118121964
Qty.	1 items

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Technical data

Approvals

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

Dimensions and weights

Net weight	1118 g

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

Technical specifications for cable

Cable length	20 m	Sheathing colour	black
Resistance to oils	Yes	Suitable for cable carriers	Yes
Core cross-section	0.25 mm²	Number of wires	8
Shielded	Yes	Halogen	No
Insulation	PP	Acceleration	5 m/s²
Bending radius, min., moving	12 x cable diameter	Bending radius, min., stationary	5 x cable diameter
Bending cycles	1 mill.	Resistance to spread of flame	in accordance with IEC 60332-2-2
Speed	100 m/min	Sheath material	PUR
Cable length configurable	No	LABS-free	Yes
Hydrolysis and microbe resistant	Yes	Outer cladding in accordance with UL AWM style	20549 (80 °C / 300 V)
Core in accordance with UL AWM style	10493 (80 °C / 300 V)	Type is hybrid cable	No
Irradiation crosslinked	No	Welding spark resistance	Yes
Colour coding	white, brown, green, yellow, grey, pink, blue, red	Torsion resistance	360 °/m
Temperature range, stationary	-40...80 °C	Resistant to welding beads	Yes
Temperature range, moving	-30...80 °C	Number of poles	8
Outside diameter	6.3 mm ± 0.2 mm		

General technical data

Coding	A-coded	Connection thread	M12
Contact surface	Gold-plated	LED	No
Version	Female socket, straight	Housing main material	PUR
Insulation resistance	108 Ω	Contact material	Copper alloy
Nominal voltage	30 V	Nominal current	2 A
AF size	13 mm	Protection degree	IP65, IP67, IP68, when screwed in
Plugging cycles	≥ 100	Pollution severity	3
Threaded ring material	Brass, nickel-plated	Temperature range of housing	-40 ... +85 ° C
Tightening torque	M12: 1.0 Nm		

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Electrical properties

Insulation resistance	108 Ω	Nominal voltage	30 V

General standards

Connector standard	IEC 61076-2-101	Certificate no. (cULus)	E307231

Standards

Connector standard	IEC 61076-2-101

Plug, left

Plug left	M12, A-coded, Number of poles: 8, female contact, straight, plug, shielded

Plug, right

Plug right	Free conductor end

Classifications

ETIM 8.0	EC001855	ETIM 9.0	EC001855
ETIM 10.0	EC001855	ECLASS 14.0	27-06-03-11
ECLASS 15.0	27-06-03-11		

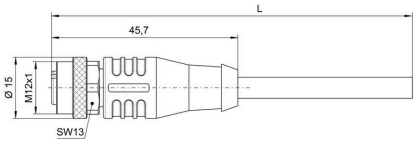
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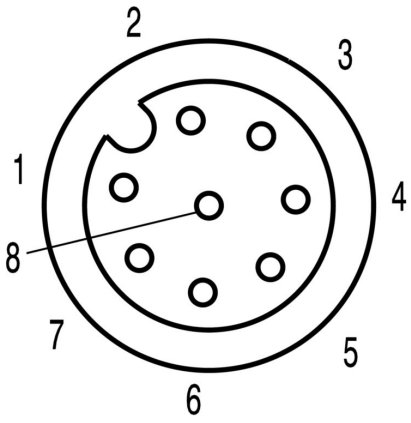
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Drawings

Dimensioned drawing

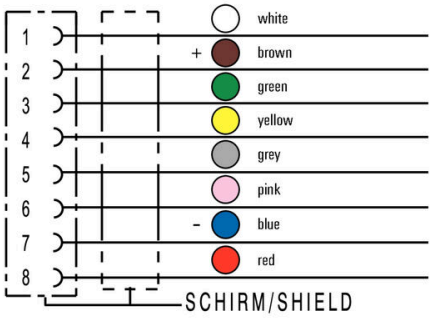


Pole scheme



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

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Drawings