

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, One end without connector, M8, Number of poles: 3, 1.5 m, Socket, angled, Shielded: No, LED: Yes, Sheath material: PUR, Halogen: No
Order No.	<u>1093210150</u>
Туре	SAIL-M8BW-3L1.5UGE
GTIN (EAN)	4032248864775
Qty.	1 pc(s).

Creation date March 22, 2021 11:48:55 PM CET



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Technical data

Dimensions and weights

Net weight 40 g

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

Technical specifications for cable

Acceleration 5 m/s² Bending cycles 5 Mio Bending radius, min., moving 10 x cable diameter Bending radius, min., stationary 5 x cable diameter Cable length 1.5 m Colour coding brown, blue, black Configurable cable length No Core in accordance with UL AWM style 10493 (80 °C / 300 V) Halogen No Housing main material PUR Hydrolysis and microbe resistant Yes Insulation PP Number of poles 3 3 Outer cladding in accordance with UL AWM style Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with UL 1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour		
Bending radius, min., moving 10 x cable diameter Bending radius, min., stationary 5 x cable diameter Cable length 1.5 m Colour coding brown, blue, black Corin accordance with UL AWM style No Core in accordance with UL AWM style 10493 (80 °C / 300 V) Halogen No Housing main material PUR Hydrolysis and microbe resistant Yes Insulation PP Number of poles 3 Number of poles 3 Quer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with UL 1581 UL / CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheath material PUR Sheath material	Acceleration	5 m/s ²
Bending radius, min., stationary 5 x cable diameter Cable length 1.5 m Colour coding brown, blue, black Configurable cable length No Core cross-section 0.25 mm² Core in accordance with UL AWM style 10493 (80 °C / 300 V) Housing main material PUR Hydrolysis and microbe resistant Yes Insulation PP Number of poles 3 Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter Diameter 4.1 mm Signs ± Tolerance 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with UL 1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded	Bending cycles	5 Mio
Cable length 1.5 m Colour coding brown, blue, black Configurable cable length No Core cross-section 0.25 mm² Core in accordance with UL AWM style 10493 (80 °C / 300 V) Halogen No Housing main material PUR Hydrolysis and microbe resistant Yes Insulation PP Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with IEC 60811:404 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Sheathing colour yellow Sheed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C <tr< td=""><td>Bending radius, min., moving</td><td>10 x cable diameter</td></tr<>	Bending radius, min., moving	10 x cable diameter
Colour coding	Bending radius, min., stationary	5 x cable diameter
Configurable cable length No Core cross-section 0.25 mm² Core in accordance with UL AWM style 10493 (80 °C / 300 V) Halogen No Housing main material PUR Hydrolysis and microbe resistant Yes Insulation PP Number of poles 3 Number of poles 3 Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with IEC 60811:404 Resistant to welding beads No Sheath material PUR Sheath material PUR Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers <t< td=""><td>Cable length</td><td>1.5 m</td></t<>	Cable length	1.5 m
Core cross-section 0.25 mm² Core in accordance with UL AWM style 10493 (80 °C / 300 V) Halogen No Housing main material PUR Hydrolysis and microbe resistant Yes Insulation PP Number of poles 3 Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with UL 1581 UL / CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max 80 °C	Colour coding	brown, blue, black
Core in accordance with UL AWM style 10493 (80 °C / 300 V) Halogen No Housing main material PUR Hydrolysis and microbe resistant Yes Insulation PP Number of poles 3 Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm Signs ± Tolerance 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with UL 1581 UL / CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Configurable cable length	No
Halogen No Housing main material PUR Hydrolysis and microbe resistant Yes Insulation PP Number of poles 3 Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm Signs ± Tolerance 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistant to welding beads In accordance with UL 1581 UL / CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Core cross-section	0.25 mm ²
Housing main material	Core in accordance with UL AWM style	10493 (80 °C / 300 V)
Hydrolysis and microbe resistant Yes	Halogen	No
Number of poles 3	Housing main material	PUR
Number of poles 3 Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter 4.1 mm Signs ± Tolerance 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with UL 1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-1-3, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Hydrolysis and microbe resistant	Yes
Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outs diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter Diameter 4.1 mm Signs ± Tolerance 0.2 mm 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 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max 80 °C	Insulation	PP
Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outer diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter biameter Signs ± Tolerance 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with UL 1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Number of poles	3
AWM style 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter Diameter 4.1 mm Signs ± Tolerance 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame In accordance with UL 1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Number of poles	3
Outside diameter Outside diameter Diameter Signs Tolerance Tolerance 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 Resistant to welding beads No Sheath material PUR Sheathing colour Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	•	20233 (80 °C / 300 V)
Outside diameter Diameter Signs	Outer diameter	$4.1\pm0.2~\text{mm}$
Signs ± Tolerance 0.2 mm Resistance to oils in accordance with IEC 60811:404 Resistance to spread of flame IEC 60332-1-3, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Outside diameter	$4.1 \text{ mm} \pm 0.2 \text{ mm}$
Tolerance 0.2 mm 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 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Outside diameter	Diameter 4.1 mm
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 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C		Signs ±
Resistance to spread of flame In accordance with UL1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 60332-2-2 Resistant to welding beads No Sheath material PUR Sheathing colour Shielded No Speed 5 m/s Suitable for cable carriers Temperature range, moving Temperature range, moving, max. In accordance with UL1581 UL/ CUL FT1, in accordance with IEC 60332-1-2, in accordance with IEC 603		Tolerance 0.2 mm
Resistant to welding beads No Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Resistance to oils	in accordance with IEC 60811:404
Sheath material PUR Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Resistance to spread of flame	- , ,
Sheathing colour yellow Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Resistant to welding beads	No
Shielded No Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Sheath material	PUR
Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Sheathing colour	yellow
Suitable for cable carriers Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Shielded	No
Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C	Speed	5 m/s
Temperature range, moving, max. 80 °C	Suitable for cable carriers	Yes
	Temperature range, moving	-2580 °C
	Temperature range, moving, max.	80 °C
Temperature range, moving, min25 °C	Temperature range, moving, min.	-25 °C
Temperature range, stationary -4080 °C	Temperature range, stationary	
Temperature range, stationary, max. 80 °C	Temperature range, stationary, max.	
Temperature range, stationary, min40 °C	Temperature range, stationary, min.	
Torsion resistance 360 °/m	Torsion resistance	360 °/m



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Technical data

General technical data

AF size	12 mm	Coding	none
Connection thread	M8	Contact surface	Gold-plated
Housing main material	PUR	Insulation strength	10 ⁸ Ω
LED	Yes	Plugging cycles	≥ 100
Pollution severity		Protection degree	IP65, IP66, IP67, IP68,
	3		when screwed in
Rated current	4 A	Rated voltage	24 V
Temperature range of housing	-25+80 °C	Threaded ring material	Brass, nickel-plated
Tightening torque	M8: 0.5 - 0.6 Nm, M12:	Version	
	0.8 - 1.2 Nm		Socket, angled
jumpered	No		

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	ECLASS 11.0	27-06-03-11

Approvals

Approvals



ROHS	Conform
UL File Number Search	E307231

Downloads

Engineering Data	<u>STEP</u>	
Engineering Data	EPLAN, WSCAD	



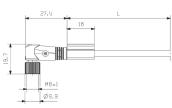
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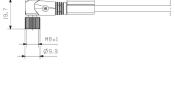
Drawings

Dimensioned drawing



Angled socket

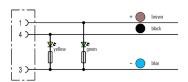
Wiring diagram



Socket

The ideal tool: Screwty ® with torque function

Pole scheme





Light, securely screwed-in round plug-in connectors. Screwty set DM / VPE: 1 / Order No.: 192000000 Adapters: M12, M12 F, M8, M8 F