

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, Number of poles: 3, 0.3 m, Shielded: No, LED: No,	
	Sheath material: PUR, Halogen: No	
Order No.	<u>1093220030</u>	
Туре	SAIL-M8BW-3-0.3UGE	
GTIN (EAN)	4050118560565	
Qty.	1 pc(s).	



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Technical data

Dimensions and weights

Net weight	12 g

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

Technical specifications for cable

Acceleration 5 m/s² Bending redius, min, moving 10 x cable diameter Bending radius, min., stationary 5 x cable diameter Cable length 0.3 m Colour coding brown, blue, black Corrigorable 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 20233 (80 °C / 300 V) AWM style 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 Sheathing colour ye		
Bending radius, min., moving 10 x cable diameter Bending radius, min., stationary 5 x cable diameter Cable length 0.3 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 Number of poles 3 Outer cladding in accordance with UL AWM style 4.1 ± 0.2 mm 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 Outside price in accordance with IEC 60311:404 Resistance to oils in accordance with IEC 60311:404 Resistant to welding beads No Sheath material PUR Sheathing colour yellow Sheathing colour yellow	Acceleration	5 m/s ²
Bending radius, min. stationary 5 x cable diameter Cable length 0.3 m Colour coding brown, blue, black Coringurable 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 Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) Outside 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 Sheathing colour yellow Sheathing colour yellow Sheathing colour yellow Sheathing colour	Bending cycles	5 Mio
Cable length 0.3 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 Number of poles 3 Outer cladding in accordance with UL 20233 (80 °C / 300 V) 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 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 IEC 60332:-2.2 Resistant to welding beads No Sheath material PUR Sheath material PUR Sheath mater	Bending radius, min., moving	10 x cable diameter
Colour coding	Bending radius, min., stationary	5 x cable diameter
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 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 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 Sheathing colour yellow Sheath geode 5 m/s Suitable for cable carriers Yes Temperature range, moving, min. -25 °C Temperature range, moving, min. -25 °C	Cable length	0.3 m
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 Quer cladding in accordance with UL. 20233 (80 °C / 300 V) WMM style 20233 (80 °C / 300 V) Outs 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, max. 80 °C Temperature range, stationary, min. -25 °C Temperature range, stat	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 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 Joinmeter 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, max. 80 °C Temperature range, stationary, max. 80 °C <td>Configurable cable length</td> <td>No</td>	Configurable cable length	No
Halogen	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 Insulation PP Number of poles 3 Outer cladding in accordance with UL AWM style 20233 (80 °C / 300 V) AWM style	Halogen	No
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 Diameter 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, max. 80 °C Temperature range, moving, min. -25 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, max. 80 °C	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 ½ 0.2 mm 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, max. 80 °C Temperature range, moving, min. -25 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, 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) Outside diameter 4.1 ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Outside diameter ½ 1 mm ± 0.2 mm Outside diameter 4.1 mm ± 0.2 mm Personance 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 60332-1-3, 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, max. 80 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min. -40 °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 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, max. 80 °C Temperature range, moving, min. -25 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min. -40 °C	Number of poles	3
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Outside diameter Outside diameter Outside diameter Diameter Signs Tolerance Outside diameter Signs Tolerance Outside diameter Signs Tolerance Outside diameter Noterance Outside diameter Signs Tolerance Outside diameter In accordance with IEC 60311:404 In accordance with IEC 60332-1-2, in accordance with IEC 60332-1-2, 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 Signs Tolerance No Speed Sheathing colour yellow Shielded No Speed Signs Sig	3	20233 (80 °C / 300 V)
Outside diameter Diameter 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, max. 80 °C Temperature range, stationary, min. -25 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min. -40 °C	Outer diameter	$4.1 \pm 0.2 \text{ mm}$
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, max. 80 °C Temperature range, stationary, min40 °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, min25 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min40 °C	Outside diameter	Diameter 4.1 mm
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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. Temperature range, moving, min. Temperature range, stationary Temperature range, stationary, min.	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 Temperature range, moving, min25 °C Temperature range, stationary -4080 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min40 °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 Temperature range, moving, min25 °C Temperature range, stationary -4080 °C Temperature range, stationary, max. 80 °C Temperature range, stationary -4080 °C Temperature range, stationary, min40 °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 Temperature range, moving, min. -25 °C Temperature range, stationary -4080 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, max. -40 °C	Sheath material	PUR
Speed 5 m/s Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C Temperature range, moving, min25 °C Temperature range, stationary -4080 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min40 °C	Sheathing colour	yellow
Suitable for cable carriers Yes Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C Temperature range, moving, min. -25 °C Temperature range, stationary -4080 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, max. -40 °C	Shielded	No
Temperature range, moving -2580 °C Temperature range, moving, max. 80 °C Temperature range, moving, min25 °C Temperature range, stationary -4080 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min40 °C	Speed	5 m/s
Temperature range, moving, max. 80 °C Temperature range, moving, min25 °C Temperature range, stationary -4080 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min40 °C	Suitable for cable carriers	Yes
Temperature range, moving, min25 °C Temperature range, stationary -4080 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min40 °C	Temperature range, moving	-2580 °C
Temperature range, stationary -4080 °C Temperature range, stationary, max. 80 °C Temperature range, stationary, min40 °C	Temperature range, moving, max.	80 °C
Temperature range, stationary, max. 80 °C Temperature range, stationary, min40 °C	Temperature range, moving, min.	-25 °C
Temperature range, stationary, min40 °C	Temperature range, stationary	-4080 °C
	Temperature range, stationary, max.	
Torsion resistance 360 °/m	Temperature range, stationary, min.	
	Torsion resistance	360 °/m



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Technical data

General technical data

AF size	12 mm	Contact surface	Gold-plated
Housing main material	PUR	Insulation strength	10 ⁸ Ω
LED	No	Plugging cycles	≥ 100
Pollution severity	3	Protection degree	IP65, IP66, IP67, IP68, when screwed in
Rated current	4 A	Rated voltage	60 V
Temperature range of housing	-25+80 °C	Threaded ring material	Brass, nickel-plated
Tightening torque	M8: 0.5 - 0.6 Nm, M12: 0.8 - 1.2 Nm	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			
ROHS	Conform		
Downloads			
Engineering Data	STEP		



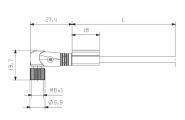
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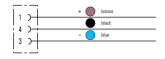
Drawings

Dimensioned drawing

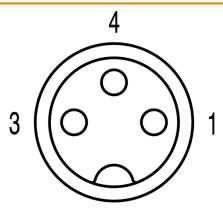


Angled socket

Wiring diagram



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