

#### 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>1093190030</u>	
Туре	SAIL-M8BG-3-0.3UGE	
GTIN (EAN)	4050118560558	
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 <sup>2</sup>			
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:-2.3 in accordance with IEC 60332:-2.2           Resistant to welding beads         No           Sheath material         PUR           Sheath material         PUR	Bending radius, min., moving	10 x cable diameter			
Colour coding	Bending radius, min., stationary	5 x cable diameter			
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Halogen	Core cross-section	0.25 mm <sup>2</sup>			
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			
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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			
AWM style         4.1 ± 0.2 mm           Outside diameter         4.1 mm ± 0.2 mm           Outside diameter         biameter         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, 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			
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			
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 Temperature range, stationary -4080 °C Temperature range, stationary, 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 60332-1-2, 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  -2580 °C  Temperature range, moving, min.  -25 °C  Temperature range, stationary  -4080 °C  Temperature range, stationary, min.  -40 °C		Tolerance 0.2 mm			
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**

ROHS

AF size	12 mm	Contact surface	Gold-plated
Housing main material	PUR	Insulation strength	10 <sup>8</sup> Ω
LED	No	Plugging cycles	≥ 100
Pollution severity		Protection degree	IP65, IP66, IP67, IP68
	3		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:	jumpered	
<b>O</b> L 161 11	0.8 - 1.2 Nm		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

Conform



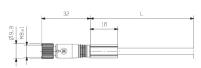
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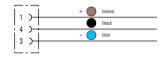
## **Drawings**

## **Dimensioned drawing**

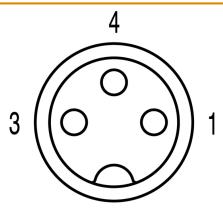


Straight socket

#### 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