

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.

The M8 and M12 sensor-actuator cables are supplied as standard with brass nickel-plated nuts. However if you are looking to use our products in an extremely harsh environment, we can also supply a variant with a plastic nut. This enables use in environments where cables with nickel-plated M8 and M12 nuts would rust.

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, 10 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	1382971000
Туре	SAIP-M8BG-3-10U
GTIN (EAN)	4050118214031
Qty.	1 pc(s).



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Technical data

Colour coding brown, Core cross-section 0.25 m Halogen No Insulation PP Length of torsion 1 m Outer cladding in accordance with UL AWM style 20549 Resistance to oils in acco 60811 Resistant to welding beads No Sheathing colour black Speed 5 m/s Temperature range, moving -2580 Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM	e diameter blue, black m² (80 °C / 300 V) dance with IEC	Bending cycles Bending radius, min., moving Cable length Configurable cable length Core in accordance with UL AWM style Hydrolysis and microbe resistant Irradiation crosslinked Number of poles Outside diameter Resistance to spread of flame	Yes No 3
Bending cycles at torsion > 5 Mic Bending radius, min., stationary 5 x cab Colour coding brown, Core cross-section 0.25 m Halogen No Insulation PP Length of torsion 1 m Outer cladding in accordance with UL AWM style 20549 Resistance to oils in acco 60811 Resistant to welding beads No Sheathing colour black Speed 5 m/s Temperature range, moving -2580 Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 ∨ Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:	e diameter blue, black m² (80 °C / 300 V) dance with IEC	Bending radius, min., moving Cable length Configurable cable length Core in accordance with UL AWM style Hydrolysis and microbe resistant Irradiation crosslinked Number of poles Outside diameter	10 x cable diameter 10 m No 10493 (80 °C / 300 V) Yes No 3
Bending cycles at torsion > 5 Mic Bending radius, min., stationary 5 x cab Colour coding brown, Core cross-section 0.25 m Halogen No Insulation PP Length of torsion 1 m Outer cladding in accordance with UL AWM style 20549 Resistance to oils in acco 60811 Resistant to welding beads No Sheathing colour black Speed 5 m/s Temperature range, moving -2580 Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 ∨ Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:	e diameter blue, black m² (80 °C / 300 V) dance with IEC	Bending radius, min., moving Cable length Configurable cable length Core in accordance with UL AWM style Hydrolysis and microbe resistant Irradiation crosslinked Number of poles Outside diameter	10 x cable diameter 10 m No 10493 (80 °C / 300 V) Yes No 3
Bending radius, min., stationary Colour coding Core cross-section Halogen No Insulation PP Length of torsion Outer cladding in accordance with UL AWM style Resistance to oils in acco 60811 Resistant to welding beads No Sheathing colour Speed Torsion resistance Coding Contact surface Insulation strength Plugging cycles Rated voltage Rated voltage Fom Threaded ring material PoM Ceneral standards Certificate no. (cULus) E3072:	e diameter blue, black m² (80 °C / 300 V) dance with IEC	Cable length Configurable cable length Core in accordance with UL AWM style Hydrolysis and microbe resistant Irradiation crosslinked Number of poles Outside diameter	10 m No 10493 (80 °C / 300 V) Yes No 3
Colour coding brown, Core cross-section 0.25 m Halogen No Insulation PP Length of torsion 1 m Outer cladding in accordance with UL 20549 Resistance to oils in acco 60811 Resistant to welding beads No Sheathing colour black Speed 5 m/s Temperature range, moving -2580 Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength $10^8 \Omega$ Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength $10^8 \Omega$ General standards Certificate no. (cULus) E3072:	olue, black m² (80 °C / 300 V)	Configurable cable length Core in accordance with UL AWM style Hydrolysis and microbe resistant Irradiation crosslinked Number of poles Outside diameter	No 10493 (80 °C / 300 V) Yes No 3
Core cross-section 0.25 m Halogen No Insulation PP Length of torsion 1 m Outer cladding in accordance with UL AWM style 20549 Resistance to oils Resistant to welding beads No Sheathing colour black Speed 5 m/s Temperature range, moving -2580 Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength 10 8 Ω Plugging cycles \geq 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 8 Ω General standards Certificate no. (cULus) E3072:	(80 °C / 300 V)	Core in accordance with UL AWM style Hydrolysis and microbe resistant Irradiation crosslinked Number of poles Outside diameter	10493 (80 °C / 300 V) Yes No 3
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Length of torsion 1 m Outer cladding in accordance with UL 20549 Resistance to oils in acco 60811 Resistant to welding beads No Sheathing colour black Speed 5 m/s Temperature range, moving -2580 Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:	dance with IEC	Number of poles Outside diameter	3
Outer cladding in accordance with UL AWM style AWM style 20549 Resistance to oils in acco 60811 Resistant to welding beads No Sheathing colour black Speed 5 m/s Temperature range, moving -2580 Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus)	dance with IEC	Outside diameter	
AWM style Resistance to oils in acco 60811 Resistant to welding beads No Sheathing colour Speed Temperature range, moving Torsion resistance Coding Contact surface Insulation strength Plugging cycles Protection degree Rated voltage Threaded ring material PoM Female Electrical properties Certificate no. (cULus) E3072:	dance with IEC		
Resistance to oils in acco 60811 Resistant to welding beads No Sheathing colour Speed Speed Som/s Temperature range, moving Torsion resistance Coding A-code Contact surface Insulation strength Plugging cycles Protection degree Rated voltage Threaded ring material Version Electrical properties Certificate no. (cULus) in acco 60811 in acco 6081 in acco 60	dance with IEC	Resistance to spread of flame	
in acco 60811 Resistant to welding beads No Sheathing colour Speed Temperature range, moving Torsion resistance Coding Contact surface Insulation strength Plugging cycles Protection degree Rated voltage Threaded ring material Female Electrical properties Insulation strength Insulation strength PoM Female Electrical properties Certificate no. (cULus) In acco 60811 In acco 6081 In acc 6081 In		Resistance to spread of flame	4.1 mm ± 0.2 mm
Sheathing colour black Speed 5 m/s Temperature range, moving -2580 Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:		nesistance to spread of name	in accordance with IEC 60332-2-2, In accordance with UL1581 UL / CUL FT2
Sheathing colour black Speed 5 m/s Temperature range, moving -2580 Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:		Sheath material	PUR
Temperature range, moving -2580 Torsion resistance General technical data Coding Contact surface Insulation strength Plugging cycles Protection degree Rated voltage Threaded ring material Version Electrical properties Insulation strength 10 ⁸ Ω Female Electrical properties Certificate no. (cULus) -2580 A-code Gold-pl. 10 ⁸ Ω Fold-pl. When s 00 V From the service of the		Shielded	No
Torsion resistance 360 °/r General technical data Coding A-code Contact surface Gold-pl. Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:		Suitable for cable carriers	Yes
General technical data Coding A-code Contact surface Gold-plant Insulation strength 10 ⁸ Ω Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:	°C	Temperature range, stationary	-4080 °C
Coding A-code Contact surface Gold-pla Insulation strength $10^8 \Omega$ Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength $10^8 \Omega$ General standards Certificate no. (cULus) E3072:	1	Welding spark resistance	No
Contact surface Gold-pl. Insulation strength $10^8 \Omega$ Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength $10^8 \Omega$ General standards Certificate no. (cULus) E3072:			
Insulation strength $10^8 \Omega$ Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength $10^8 \Omega$ General standards Certificate no. (cULus) E3072:		Connection thread	M8
Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:	ted	Housing main material	PUR
Plugging cycles ≥ 100 Protection degree IP65, IF when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:		LED	No
when s Rated voltage 60 V Threaded ring material POM Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:		Pollution severity	3
Threaded ring material POM Version Female Electrical properties Insulation strength $10^8 \Omega$ General standards Certificate no. (cULus) E3072:	66, IP67, IP68, crewed in	Rated current	4 A
Version Female Electrical properties Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:		Temperature range of housing	-25+85 °C
Electrical properties Insulation strength $10^8 \Omega$ General standards Certificate no. (cULus) E3072:		Tightening torque	M8: 0.5 - 0.6 Nm
Insulation strength 10 ⁸ Ω General standards Certificate no. (cULus) E3072:	socket, straight	jumpered	No
General standards Certificate no. (cULus) E3072:			
Certificate no. (cULus) E3072:		Rated voltage	60 V
,			
Standards	31	Connector standard	IEC 61076-2-104
Connector standard IEC 610	76-2-104		
Plug, left			
Plug left M8, IP6 straight ed			



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Plug, right

Plug right	free conductor end		
Classifications			
ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	EC001855	ETIM 9.0	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
ECLASS 12.0	27-06-03-11	ECLASS 13.0	27-06-03-11

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	1c533b66-fcff-4da5-b89f-fd55fbf5cb55

Approvals

Approvals



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

Downloads

Engineering Data	CAD data – STEP
Product Change Notification	Technical change to M12 plastic nuts - EN
	Technical change to M12 plastic nuts - DE
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN



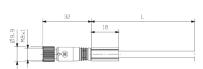
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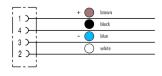
Drawings

Dimensioned drawing

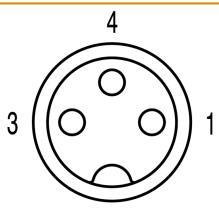


Straight socket

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