

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, Connecting line, M12 / M8, Number of poles: 3, 1.5 m, pin, straight - socket, 90°, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	1220620150
Туре	SAIP-M12GM8W-3-1.5U
GTIN (EAN)	4050118215939
Qty.	1 pc(s).



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Technical data

Bending cycles at torsion > Bending radius, min., stationary 5 Colour coding by Core cross-section 0 Halogen N Insulation P Length of torsion 1 Outer cladding in accordance with UL AWM style 2 Resistance to oils in 6 Resistant to welding beads N Sheathing colour by Speed 5 Temperature range, moving -2 Torsion resistance 3 General technical data Coding N Contact surface G Insulation strength 1 Plugging cycles ≥ Protection degree IF Rated voltage 6 Threaded ring material	m/s ² 5 Mio. x cable diameter rown, blue, black .25 mm ²	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 Sheath material Shielded Suitable for cable carriers Temperature range, stationary Welding spark resistance	Yes No 3 4.1 mm ± 0.2 mm in accordance with IEC
Bending cycles at torsion > Bending radius, min., stationary 5 Colour coding by Core cross-section 0 Halogen N Insulation P Length of torsion 1 Outer cladding in accordance with UL AWM style 2 Resistance to oils in 6 Resistant to welding beads N Sheathing colour by Speed 5 Temperature range, moving -2 Torsion resistance 3 General technical data Coding N Contact surface G Insulation strength 1 Plugging cycles ≥ Protection degree IF Rated voltage 6 Threaded ring material	5 Mio. x cable diameter rown, blue, black .25 mm² lo P m 0549 (80 °C / 300 V) n accordance with IEC 0811:404 lo lack m/s 2580 °C	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 Sheath material Shielded Suitable for cable carriers Temperature range, stationary	10 x cable diameter 1.5 m No 10493 (80 °C / 300 V) Yes No 3 4.1 mm ± 0.2 mm in accordance with IEC 60332-2-2, In accordance with UL1581 UL / CUL FT2 PUR No Yes -4080 °C
Bending cycles at torsion Bending radius, min., stationary Colour coding Core cross-section Halogen Insulation Length of torsion Outer cladding in accordance with UL AWM style Resistance to oils Insulation Bending in accordance with UL AWM style Resistance to oils Insulation General technical data Coding Contact surface Insulation strength Plugging cycles Protection degree Insulation stread of threaded ring material	5 Mio. x cable diameter rown, blue, black .25 mm² lo P m 0549 (80 °C / 300 V) n accordance with IEC 0811:404 lo lack m/s 2580 °C	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 Sheath material Shielded Suitable for cable carriers Temperature range, stationary	10 x cable diameter 1.5 m No 10493 (80 °C / 300 V) Yes No 3 4.1 mm ± 0.2 mm in accordance with IEC 60332-2-2, In accordance with UL1581 UL / CUL FT2 PUR No Yes -4080 °C
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Resistant to welding beads Sheathing colour Speed 5 Temperature range, moving -2 Torsion resistance 3 General technical data Coding Contact surface Insulation strength Plugging cycles Protection degree IF Rated voltage Threaded ring material	lack m/s 2580°C	Shielded Suitable for cable carriers Temperature range, stationary	PUR No Yes -4080 °C
Sheathing colour Speed 5 Temperature range, moving -2 Torsion resistance 3 General technical data Coding Contact surface Insulation strength Plugging cycles Protection degree Rated voltage Threaded ring material	lack m/s 2580 °C	Shielded Suitable for cable carriers Temperature range, stationary	Yes -4080 °C
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Temperature range, moving -2 Torsion resistance 3 General technical data Coding Contact surface Insulation strength Plugging cycles Protection degree Rated voltage Threaded ring material	2580 °C	Temperature range, stationary	-4080 °C
Torsion resistance 3 General technical data Coding M Contact surface G Insulation strength 1 Plugging cycles ≥ Protection degree IF Rated voltage 6 Threaded ring material	60°/m		No
General technical data Coding M Contact surface G Insulation strength 1 Plugging cycles ≥ Protection degree IF Rated voltage 6 Threaded ring material		3 1	
Contact surface G Insulation strength 1 Plugging cycles ≥ Protection degree IF Rated voltage 6 Threaded ring material	112 = A, M8 = none	Connection thread	M12 / M8
Insulation strength 1 Plugging cycles ≥ Protection degree IF Rated voltage 6 Threaded ring material	old-plated	Housing main material	PUR
Plugging cycles ≥ Protection degree IF W Rated voltage 6 Threaded ring material	0 ⁸ Ω	LED	No
Protection degree IF W Rated voltage 6 Threaded ring material	100	Pollution severity	3
Threaded ring material	P65, IP66, IP67, IP68, when screwed in	Rated current	4 A
•	0 V	Temperature range of housing	-40 +85 ° C
P	lastic	Tightening torque	M8: 0.5 - 0.6 Nm, M12 (plastic): 0.9 - 1.1 Nm
•	in, straight - socket, 0°	jumpered	No
Electrical properties			
Insulation strength 1	0 ⁸ Ω	Rated voltage	60 V
General standards	<u> </u>		
Commontou atourdoud	C 61076 2 101 JEC		
	EC 61076-2-101, IEC 1076-2-104		
Standards			
Connector standard IE	EC 61076-2-101, IEC		



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Classifications

ETIM 6.0	EC001855	ETIM 7.0	EC001855
ETIM 8.0	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

Environmental Product Compliance

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

Approvals

Approvals



Downloads

Engineering Data	WSCAD
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 FL FIELDWIRING EN



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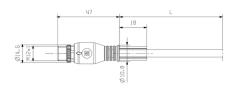
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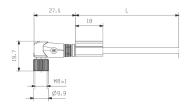
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Drawings

Dimensioned drawing

Dimensioned drawing

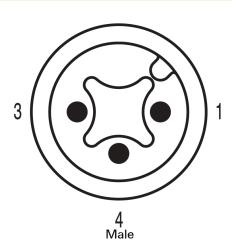




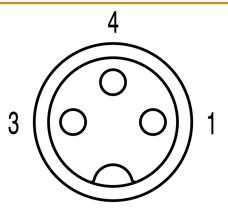
Male, straight

Angled socket

Pole scheme



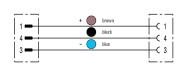
Pole scheme



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.: 192000000 Adapters: M12, M12 F, M8, M8 F