

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

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 /		
	M12, Number of poles : 5, 1.5 m, Shielded: No,		
	LED: No, Sheath material: PUR, Halogen: No		
Order No.	<u>2028150150</u>		
Туре	SAIP-M12GM12SG-5-1.5U		
GTIN (EAN)	4050118423464		
Qty.	1 pc(s).		



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

HalogenNoHydrolysis and nInsulationPPIrradiation crosslLABS-freeYesLength of torsion		
Lead 7439-92-1 Technical specifications for cable		
Lead 7439-92-1 Technical specifications for cable		1-500-00 (-# 44-5 -00)
Acceleration 5 m/s² Bending cycles at torsion > 5 Mio. Bending cycles at torsion > 5 Mio. Bending radius, min., stationary 5 x cable diameter Cable length Configurable cat grey Core cross-section 0.34 mm² Core in accordant Hydrolysis and number of poles Number of poles Sheath material PUR Sheath material PUR Sheath material PUR Sheath material PUR Insulation systems are resistance No Core cross-section Purporation for sion resistance No Core in accordance with public publi		1c533b66-fcff-4da5-b89f fd55fbf5cb55
Bending cycles at torsion S Mio. Bending radius, mending radius, min., stationary S x cable diameter Cable length Configurable call grey Core cross-section 0.34 mm² Core in accordant Hydrolysis and molecular mending in the mo		
Bending cycles at torsion S Mio. Bending radius, meaning radius, min., stationary S x cable diameter Cable length Cable length Configurable call grey Core cross-section O.34 mm² Core in accordant Hydrolysis and more in the properties Core in accordant Core in accordant Hydrolysis and more in the properties Core in accordant Core in accordante		40.14
Sending radius, min., stationary Six cable diameter Cable length Colour coding Servery Core cross-section O.34 mm² Core in accordant Halogen No Hydrolysis and in Irradiation cross Length of torsion Coutrollanding in AWM style Resistance to oil outside diameter Six mm ± 0.2 mm Resistance to spread of flame In accordance with UL 1581 UL / CUL FT2, in accordance with IEC Go332-2-2 Sheath material PUR Sheathing colou Speed Temperature range Shielded No Speed Temperature range Stationary A080 °C Temperature range Shielded No Speed Temperature range Shielded Soutable for cable carriers Yes Temperature range Torsion resistance Torsion resistance Shielded Soutable for cable carriers Yes Temperature range Torsion resistance Torsion resistance Shielded Shiel		12 Mio
Colour coding brown, white, blue, black grey Core cross-section 0.34 mm² Core in accordant Halogen No Hydrolysis and n Insulation PP Irradiation crossl LABS-free Yes Length of torsion Outer cladding in AWM style Resistance to oil AWM style Resistance to oil AWM style Resistance to oil No Speed Suitable for cable carriers Yes Temperature range, stationary 4080 °C Torsion resistance Molusing main material PUR Sheath core No Pollution severity Rated current 4 A Rated current 4 A Rated current No Electrical properties Electrical properties Core in accordance Hydrolysis and n	, min., moving	10 x cable diameter
Grey Core cross-section 0.34 mm² Core in accordar Hydrolysis and normalisulation PP Irradiation cross Length of torsion Outer cladding in AWM style Resistance to oil Resistant to well Resistance to oil Resistant to well		1.5 m
Halogen No Hydrolysis and nonsulation PP Irradiation cross Length of torsion Cuter cladding in AWM style Resistance to spread of flame In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2 Sheath material PUR Sheided No Speed Temperature range, stationary Push Irradiation strength PUR General technical data Connection thread M12 / M12 Contact surface Insulation strength PUR Rated current 4 A Rated voltage Industrial PUR Electrical properties In accordance with IEC 60332-2-2 Sheath material PUR Sheathing colou Speed Temperature range of housing Main material PUR Rated voltage Threaded ring more standards Electrical properties In accordance with IEC 61076-2-101	able length	No
Insulation PP Irradiation cross LABS-free Yes Length of torsion Outer cladding in AWM style Resistance to oil Outside diameter 5.3 mm ± 0.2 mm Resistance to oil Resistance to spread of flame In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2 Resistant to weld Speed Temperature rang Sheeth material Sheath material PUR Sheathing colou Speed Temperature rang Temperature rang, stationary Sheided No Speed Temperature rang Torsion resistance Welding spark resistance No Temperature rang Torsion resistance General technical data M12 / M12 Contact surface Insulation streng Plugging cycles Protection degree General technical material PUR Plugging cycles Protection degree Pollution severity 3 Rated voltage Threaded ring more properties Rated current 4 A Rated voltage Threaded ring more plumpered Electrical properties Insulation strength 10 ⁸ Ω Rated voltage General standards	ance with UL AWM style	10493 (80 °C / 300 V)
LABS-free Yes Length of torsion Number of poles 5 Outer cladding in AWM style Resistance to spread of flame 5.3 mm ± 0.2 mm Resistance to oil Resistance to spread of flame In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2 Resistant to weld IEC 60332-2-2 Sheath material PUR Sheathing colou Speed Shielded No Speed Suitable for cable carriers Yes Temperature ran Temperature range, stationary -4080 °C Torsion resistance Welding spark resistance No Torsion resistance General technical data M12 / M12 Contact surface Insulation streng LED No Plugging cycles Pollution severity Protection degree Rated current 4 A Rated voltage Threaded ring minympered No Electrical properties Insulation strength 10 ⁸ Ω Rated voltage General standards Connector standard IEC 61076-2-101	microbe resistant	Yes
Number of poles Outside diameter 5.3 mm ± 0.2 mm Resistance to spread of flame In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2 Sheath material PUR Sheath material PUR Sheath for cable carriers Temperature range, stationary Welding spark resistance Connection thread Housing main material PUR Mo General technical data Connection severity Pollution severity Rated current Temperature range of housing jumpered No Electrical properties Connector standard IEC 61076-2-101 Outer cladding in AWM style Resistance outloadd Resistance to oil Resistant to weld Condact surface Insulation colou Speed Temperature range Torsion resistance Insulation streng Plugging cycles Protection degree Threaded ring main material No Electrical properties Connector standard IEC 61076-2-101	slinked	No
Sheath material Shielded Suitable for cable carriers Temperature range, stationary Welding spark resistance Connection thread Housing main material PUR No Pollution severity Pollution severity Resistance to simple for cable carriers Temperature range of housing jumpered Resistant to weld Resistan	on	1 m
Outside diameter Resistance to spread of flame 5.3 mm ± 0.2 mm Resistance to oil Resistance to spread of flame In accordance with UL1581 UL / CUL FT2, in accordance with IEC 60332-2-2 Sheath material PUR Sheathing colou Speed Shielded No Speed Temperature ran Temperature range, stationary -4080 °C Torsion resistance Suitable for cable carriers Yes Temperature range range range range, stationary -4080 °C Torsion resistance Welding spark resistance No No Position resistance General technical data M12 / M12 Contact surface Insulation strenge LED No Plugging cycles Pollution severity 3 Rated voltage Rated current 4 A Rated voltage Temperature range of housing jumpered -40 +85 ° C Threaded ring m Insulation strength 10 ⁸ Ω Rated voltage General standards	in accordance with UL	20549 (80 °C / 300 V)
UL1581 UL / CUL FTZ, in accordance with IEC 60332-2-2 Sheath material PUR Sheathing colou Speed Temperature range, stationary -4080 °C Torsion resistance Welding spark resistance No General technical data Connection thread M12 / M12 Contact surface Insulation strenge Pulgaging cycles Protection degree Protection degree Protection degree Threaded ring majumpered No Electrical properties UL1581 UL / CUL FTZ, in accordance with IEC 61076-2-101 Sheathing colou Speed Temperature range of Lead of Speed Temperature range range of Lead of Speed Temperature range rang	ils	in accordance with IEC 60811:404
Sheath material PUR Sheathing colou Shielded No Speed Suitable for cable carriers Yes Temperature ran Temperature range, stationary -4080 °C Torsion resistand Welding spark resistance No Torsion resistand General technical data Connection thread M12 / M12 Contact surface Housing main material PUR Insulation streng LED No Plugging cycles Pollution severity Protection degree Rated current 4 A Rated voltage Threaded ring m No Electrical properties Insulation strength 10 ⁸ Ω Rated voltage General standards Connector standard IEC 61076-2-101	elding beads	No
Shielded No Speed Suitable for cable carriers Yes Temperature ran Temperature range, stationary -4080 °C Torsion resistand Welding spark resistance No Torsion resistand General technical data Connection thread M12 / M12 Contact surface Housing main material PUR Insulation streng LED No Plugging cycles Pollution severity 3 Rated voltage Temperature range of housing -40 +85 ° C Threaded ring m jumpered No Electrical properties Insulation strength 108 Ω Rated voltage General standards IEC 61076-2-101	uir	black
Suitable for cable carriers Temperature range, stationary Welding spark resistance Welding spark resistance No General technical data Connection thread Housing main material LED No Pollution severity Rated current Temperature range of housing jumpered No Electrical properties Insulation strength No Rated voltage Threaded ring m Rated voltage General standards Contact surface Insulation streng Insulation streng Rated current A A Rated voltage Threaded ring m Rated voltage Rated voltage Rated voltage Connector standard	, ui	5 m/s
Temperature range, stationary Welding spark resistance Welding spark resistance No General technical data Connection thread Housing main material LED No Plugging cycles Pollution severity Rated current Temperature range of housing jumpered No Electrical properties Insulation strength 10 ⁸ Ω Rated voltage General standards Torsion resistance Torsion resi	unge moving	-2580 °C
Welding spark resistance No General technical data M12 / M12 Contact surface Connection thread M12 / M12 Contact surface Housing main material PUR Insulation streng LED No Plugging cycles Pollution severity 3 Rated voltage Rated current 4 A Rated voltage Temperature range of housing jumpered -40 +85 ° C Threaded ring m Electrical properties Insulation strength 10 ⁸ Ω Rated voltage General standards Connector standard IEC 61076-2-101		360 °/m
Connection thread Housing main material PUR Plugging cycles Protection degree 3 Rated current 4 A Temperature range of housing Jumpered No Flectrical properties Insulation strength 10 ⁸ Ω Rated voltage Threaded ring material Rated voltage Insulation strength 10 ⁸ Ω Rated voltage	ice	300 /111
Housing main material PUR Insulation streng LED No Plugging cycles Pollution severity Protection degree Rated current 4 A Rated voltage Temperature range of housing jumpered -40 +85 ° C Threaded ring m Insulation strength 108 Ω Rated voltage General standards IEC 61076-2-101		
Housing main material PUR Insulation streng LED No Plugging cycles Pollution severity Protection degree Rated current 4 A Rated voltage Temperature range of housing jumpered -40 +85 ° C Threaded ring m Insulation strength 108 Ω Rated voltage General standards IEC 61076-2-101	-	Caldudatad
No Plugging cycles Pollution severity Rated current 4 A Rated voltage Temperature range of housing -40 +85 ° C Threaded ring m jumpered No Electrical properties Insulation strength 10 ⁸ Ω Rated voltage General standards Connector standard IEC 61076-2-101		Gold-plated
Pollution severity 3 Rated current 4 A Temperature range of housing No Electrical properties Insulation strength 10 ⁸ Ω Rated voltage Threaded ring management of the properties Electrical properties	ngth	10 ⁸ Ω
Rated current 4 A Fremperature range of housing 4 A Fremperature range of housing 4 A Fremperature range of housing No Flectrical properties Insulation strength 10 ⁸ Ω Rated voltage Rated voltage Flectrical properties Insulation strength 10 ⁸ Ω Rated voltage	S	≥ 100
Temperature range of housing $-40 \dots +85 ^{\circ}$ C Threaded ring magnitude plane of No No Selectrical properties Insulation strength $10^{8} \Omega$ Rated voltage General standards Connector standard IEC 61076-2-101	ree	IP65, IP66, IP67, IP68, when screwed in
jumpered No Electrical properties Insulation strength $10^8 \Omega$ Rated voltage General standards Connector standard IEC 61076-2-101		60 V
Electrical properties Insulation strength $10^8 \Omega$ Rated voltage General standards Connector standard IEC 61076-2-101	material	Plastic
Insulation strength $10^8\Omega$ Rated voltage General standards Connector standard IEC 61076-2-101		
General standards Connector standard IEC 61076-2-101		
General standards Connector standard IEC 61076-2-101		60 V
Connector standard IEC 61076-2-101		
Standards		
Connector standard IEC 61076-2-101		

Creation date October 11, 2022 7:51:20 PM CEST



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

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

Approvals

Approvals



ROHS Conform

Downloads

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



Weidmüller Interface GmbH & Co. KG

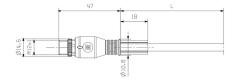
Klingenbergstraße 26 D-32758 Detmold Germany

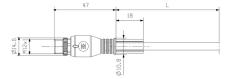
www.weidmueller.com

Drawings

Dimensioned drawing

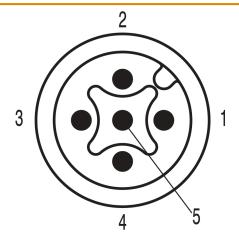
Dimensioned drawing

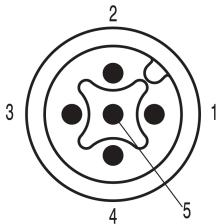




Pole scheme

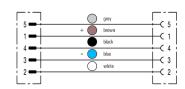
Pole scheme





Wiring diagram

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Weidmuller: 2028150150