SAIP-M12BG-3-1.5U

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, M12, Number of poles : 3, 1.5 m, Female socket, straight, Shielded: No, LED: No, Sheath material: PUR, Halogen: No
Order No.	1108730150
Type	SAIP-M12BG-3-1.5U
GTIN (EAN)	4032248888498
Qty.	1 pc(s).

SAIP-M12BG-3-1.5U

Technical data

Dimensions and weights

Net weight	49 g

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Technical specifications for cable

Acceleration	5 m/s²		
Bending cycles	12 Mio		
Bending radius, min., moving	10 x cable diameter		
Bending radius, min., stationary	5 x cable diameter		
Cable length	1.5 m		
Colour coding	brown, blue, black		
Configurable cable length	No		
Core cross-section	0.34 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		
LABS-free	Yes		
Number of poles	3		
Number of poles	3		
Outer cladding in accordance with UL AWM style	20233/21198 (80 °C / 300 V)		
Outer diameter	4.3 ± 0.2 mm		
Outside diameter	4.3 mm ± 0.2 mm		
Outside diameter	Diameter	4.3 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 60332-1-3, in accordance with IEC 60332-2-2		
Resistant to welding beads	No		
Sheath material	PUR		
Sheathing colour	black		
Shielded	No		
Speed	5 m/s		
Suitable for cable carriers	Yes		
Temperature range, moving	-25...80 °C		
Temperature range, moving, max.	80 °C		
Temperature range, moving, min.	-25 °C		
Temperature range, stationary	-40...80 °C		
Temperature range, stationary, max.	80 °C		
Temperature range, stationary, min.	-40 °C		
Torsion resistance	360 °/m		

SAIP-M12BG-3-1.5U

Technical data

General technical data

AF size	12 mm	Coding	A
Connection thread	M12	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	250 V
Temperature range of housing	-25...+80 °C	Threaded ring material	Plastic
Tightening torque	M12 (plastic nut): 0.6 - 0.8 Nm	Version	
			Female socket, straight
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

Approvals

ROHS	Conform
UL File Number Search	E307231

Downloads

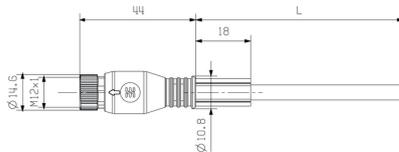|	
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
Product Change Notification	Technical change to M12 plastic nuts - EN
	Technical change to M12 plastic nuts - DE

Creation date March 23, 2021 12:23:47 AM CET
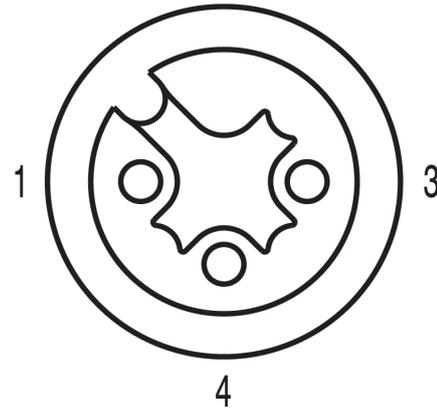
SAIP-M12BG-3-1.5U

Drawings

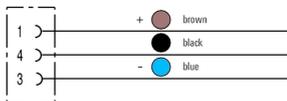### Dimensioned drawing

Straight socket

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.: 1920000000 Adapters: M12, M12 F, M8, M8 F

Creation date March 23, 2021 12:23:47 AM CET