

YF2A14-100UB3M2A14

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YF2A14-100UB3M2A14	2096002

Other models and accessories → www.sick.com/Sensor_actuator_cable



Detailed technical data

Technical specifications

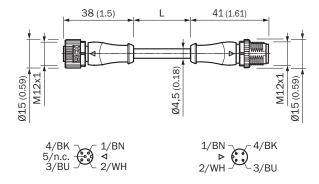
Accessory family Connection cables Connection type head A Female connector, M12, 4-pin, straight, A-coded Connection type head B Male connector, M12, 4-pin, straight, A-coded Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material FKM Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Scatular diameter > 5 x cable diameter Stavitage, cable 2,50 v Ac Reference voltage 250 v Ac 250 v DC Rated impulse voltage 2,5 kW Current loading 4 A	·	
Connection type head A Female connector, M12, 4-pin, straight, A-coded Connection type head B Male connector, M12, 4-pin, straight, A-coded Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position > 10 x cable diameter Stationary position > 5 x cable diameter Nominal voltage, cable 300 v AC Test voltage, cable 2,500 v AC Reference voltage 250 v DC Rated impulse voltage 2,5 kW Current loading 4 A	Accessory group	Plug connectors and cables
Connection type head B Male connector, M12, 4-pin, straight, A-coded Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Pora chain operation Drag chain operation > 10 x cable diameter Nominal voltage, cable 300 v AC Test voltage, cable 300 v AC Reference voltage 250 v AC 250 v DC Rated impulse voltage 2.5 kW Current loading 4 A	Accessory family	Connection cables
Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Flexible use > 5 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Connection type head A	Female connector, M12, 4-pin, straight, A-coded
Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Parag chain operation State of the paragraph of	Connection type head B	Male connector, M12, 4-pin, straight, A-coded
Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Power of the property	Locking plug connector	Screw connection
Locking nut material FKM Tightening torque Width across flats Cable 10 m, 4-wire, PUR, halogen-free Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Nominal voltage, cable Reference voltage Reference voltage Rated impulse voltage Current loading FKM FKM FKM FKM FKM Ann Ann Ann Ann Ann Ann Ann A	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation Drag chain operation > 5 x cable diameter 10,000,000 Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V AC Rated impulse voltage 2.5 kV Current loading 4 A	Connector color	Black
Tightening torque Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free PUR, halogen-free Black Cable diameter 4.5 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage Current loading 4 A 10 m, 4-wire, PUR, halogen-free PUR, halogen-free Black 4.5 mm 0.34 mm² 5 ma 10 x cable diameter 5 x x cable diameter 5	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Volume to x cable diameter > 10 x cable diameter Volume to x cable diameter 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Seal material	FKM
Cable Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Flex voltage, cable Test voltage, cable Reference voltage Rated impulse voltage Current loading PUR, halogen-free PUR, halog	Tightening torque	0.6 Nm
Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Showlade, cable Test voltage, cable Reference voltage Current loading PUR, halogen-free Black 4.5 mm 0.34 mm² Unshielded Unshielded 2.5 x cable diameter > 10	Width across flats	13
Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Showinal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading 4.5 mm 4.	Cable	10 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading 4.5 mm 0.34 mm² 1.0 x cable diameter > 5 x cable diameter > 10 x cable	Jacket material	PUR, halogen-free
Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Nominal voltage, cable Test voltage, cable Reference voltage Rated impulse voltage Current loading O.34 mm² Unshielded Unshielded Unshielded Unshielded Va cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10,000,000 Xood 2,500 V AC 250 V AC 250 V DC Rated impulse voltage 4 A	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading Unshielded > 10 x cable diameter	Cable diameter	4.5 mm
Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading Flexible use > 10 x cable diameter > 10,000,000 300 V AC 2,500 V AC 250 V DC Rated impulse voltage 4 A	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable 2,500 V AC 250 V DC Rated impulse voltage Current loading > 10 x cable diameter > 5 x cable diameter > 10,000,000 300 V AC 2,500 V AC 2,500 V AC 250 V DC 4 A	Shielding	Unshielded
Stationary position Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading > 5 x cable diameter > 10 x cable diameter 10,000,000 AC 250 V AC	Bending radius	
Drag chain operation > 10 x cable diameter 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC Rated impulse voltage 2.5 kV Current loading 4 A	Flexible use	> 10 x cable diameter
Bending cycles 10,000,000 Nominal voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading	Stationary position	> 5 x cable diameter
Nominal voltage, cable Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 300 V AC 2,500 V AC 4 A	Drag chain operation	> 10 x cable diameter
Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Bending cycles	10,000,000
Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Nominal voltage, cable	300 V AC
250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Test voltage, cable	2,500 V AC
250 V DC Rated impulse voltage 2.5 kV Current loading 4 A	Reference voltage	
Rated impulse voltage 2.5 kV Current loading 4 A		250 V AC
Current loading 4 A		
		2.5 kV
Traversing speed 3 m/s	Current loading	4 A
	Traversing speed	3 m/s

Travelling distance	10 m	
Acceleration	≤ 10 m/s²	
Signal type	Sensor/actuator cable	
Torsion force	180° / 1 m	
Torsion cycles	2,000,000	
Cycles per minutes	35	
Application	Zones with oils and lubricants Drag chain operation Robot	
Authorizations	CE UL	
UL File No.	E335179	
Enclosure rating	IP65 / IP66K / IP67	
Ambient operating temperature		
Flexible use	-25 °C +80 °C	
Stationary position	-40 °C +80 °C	
Drag chain operation	-25 °C +80 °C	
Head	-25 °C +85 °C	
Contamination rating	3	
Insulation resistance	100 ΜΩ	
Overvoltage category	III	
Specific insulation resistance	30 mΩ	
Thermal resistance, piping	Flame retardant according to UL 1581, horizontal flame test/CSA FT2 / IEC 60332-1, IEC 60332-2-2	

Classifications

ECLASS 5.0	19030312
ECLASS 5.1.4	19030312
ECLASS 6.0	27060304
ECLASS 6.2	27060304
ECLASS 7.0	27060304
ECLASS 8.0	27060304
ECLASS 8.1	27060304
ECLASS 9.0	27060304
ECLASS 10.0	27060304
ECLASS 11.0	27060304
ECLASS 12.0	27060304
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249
ETIM 8.0	EC003249
UNSPSC 16.0901	26121604

Dimensional drawing (Dimensions in mm (inch))



Recommended accessories

Other models and accessories → www.sick.com/Sensor_actuator_cable

	Brief description	Туре	Part no.	
Other mounting accessories				
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 Nm	TOOL-TW06M12AF13	5337208	

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com

