

YF2A14-050UB3N2A14

Sensor/actuator cable

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YF2A14-050UB3N2A14	2095787

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



Detailed technical data

Technical specifications

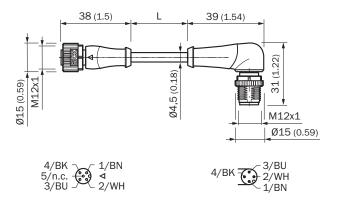
Accessory group Plug connectors and cables Accessory family Connection tables Connection type head B Emaile connector, M12, 4-pin, straight, A-coded Connector material TPU Connector material TPU Connector color Black Locking nut material FKM Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 5 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 personal principal pri	•	
Connection type head A Female connector, M12, 4-pin, straight, A-coded Connection type head B Male connector, M12, 4-pin, angled, 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 5 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 Shelding Unshielded Bending radius Flexible use Stationary position poration pag chain operation pag chain o	Accessory group	Plug connectors and cables
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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 5 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 Prag chain operation Prag chain operation Orac peration Prag chain operation Prag chain opera	Connection type head A	Female connector, M12, 4-pin, straight, A-coded
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Connector color Locking nut material Seal material FKM Tightening torque Width across flats Cable Jacket material Jacket color Cable diameter 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 Rated impulse voltage Calment in diameter Locking nut material Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated FKM Jinc die-cast, nickel-plated Jacket color Black Las munder Jacket color Jacke	Locking plug connector	Screw connection
Locking nut material FKM Tightening torque Width across flats Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Drag chain operation Sov AC Test voltage, cable Reference voltage Rated impulse voltage Current loading FKM FKM O.6 Nm O.8 Nm PUR, halogen-free Black 13 Cable Uns, halogen-free Black 10 Cable diameter A.5 mm Conductor cross section O.34 mm² Unshielded Unshielded Unshielded Stationary position Porag chain operation Drag chain operation Drag chain operation Drag chain operation Sov AC 250 V AC 250 V DC Rated impulse voltage Current loading 4 A	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 5 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 x cable diameter > 10 x cable diameter Stationary position Drag chain operation Drag chain operation > 10 x cable diameter Stationary position Drag chain operation Drag chain operation > 10 x cable diameter Stationary position Drag chain operation Drag chain operation > 10 x cable diameter Stationary position Drag chain operation Drag chain operation > 10 x cable diameter Stationary position Drag chain operation Drag chain operation > 10 x cable diameter Stationary position Drag chain operation Drag chain operation operation Drag chain operation Drag chain operation operation Drag chain operation op	Connector color	Black
Tightening torque Width across flats 13 Cable 5 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 Porag chain operation Bending voltage, cable Test voltage, cable Reference voltage Rated impulse voltage Current loading 13 13 13 13 13 13 13 13 13 1	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 5 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 > 5 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
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Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag cable 10,000,000 Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading PUR, halogen-free Black 4.5 mm 0.34 mm² 10,34 mm² 10,34 mm² 10,34 mm² 10,34 cable diameter 10,34 mm² 10,34 cable diameter 10,000,000 10,000,000 10,000,000 10,000,00	Width across flats	13
Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Prag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading Black 4.5 mm	Cable	5 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Ominal voltage, cable Reference voltage Reference voltage Rated impulse voltage Current loading 4.5 mm 0.34 mm² Unshielded 10,004 2 to x cable diameter > 5 x cable diameter > 10 x cable diameter	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 Unshielded Vacable diameter > 5 x cable diameter > 10 x cable diameter > 20 x cable diameter	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Stationary position Drag chain operation Drag chain operation Stationary position Drag chain operation Drag chain o	Cable diameter	4.5 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading Plexible use > 10 x cable diameter > 10,000,000 > 10,000,000 > 200 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 Drag chain	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		
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°/1m
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.

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For us, that is "Sensor Intelligence."

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