

YF2A13-050UB1XLEAX

Sensor/actuator cable





Ordering information

Туре	Part no.
YF2A13-050UB1XLEAX	2095605

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



Detailed technical data

Technical specifications

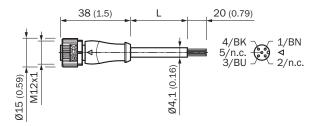
Connection type head B Female connector, M12, 3-pin, straight, A-coded Connector type head B Flying leads Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Seal material FKM Uightening torque 0.6 Nm Width across flats 13 Cable 5 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unskelded Bending radius Flexible use Stationary position poration > 10 x cable diameter Drag chain operation 10 x cable diameter Stationary position 2 10 x cable diameter Stationary position 2 5 x cable diameter Stationary position 2 50 x cable diameter Stationary position 2 50 x cable diameter Stationary position 2 50 x cable diameter Stationary position 2 5		
Locking plug connector Screw connection 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, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Paragical in operation Paragical in	Connection type head A	Female connector, M12, 3-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 5 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Prag chain operation Prag chain operation Prag chain operation Stationary position Prag chain operation Prag chain operation Stationary Prag chain operatio	Connection type head B	Flying leads
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, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 5 x cable diameter Drag chain operation > 10 x cable diameter Poly Company (a) = 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	Locking plug connector	Screw connection
Cocking nut material	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 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 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2,5 kV Current loading \$ 4 A	Connector color	Black
Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Nominal voltage, cable 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC 2.5 kV Current loading ≤ 4 A	Locking nut material	Zinc die-cast, nickel-plated
Width across flats 13 Cable 5 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter Nominal voltage, cable 10,000,000 Reference voltage 250 V AC 250 V DC 250 V DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A	Seal material	FKM
Cable 5 m, 3-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Pag chain operat	Tightening torque	0.6 Nm
Jacket material Jacket color Black Cable diameter 4.1 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 250 V AC 250 V DC Rated impulse voltage Current loading PUR, halogen-free Black 4.1 mm 0.34 mm² Unshielded 10,34 mm² 10 x cable diameter > 5 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10,000,000 AC 250 V AC 250 V AC 250 V DC Rated impulse voltage 2.5 kV < 4 A	Width across flats	13
Jacket color Black Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Paragchain operation Paragchain operation > 10 x cable diameter Drag chain operation Paragchain Ope	Cable	5 m, 3-wire, PUR, halogen-free
Cable diameter 4.1 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter 10 x cable diameter 10 x cable diameter 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Jacket material	PUR, halogen-free
Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation > 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 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A	Jacket color	Black
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Sending cycles Nominal voltage, cable Test voltage, cable Reference voltage 250 ∨ AC 250 ∨ DC Rated impulse voltage Current loading Unshielded 10 x cable diameter > 10 x cable diameter	Cable diameter	4.1 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles 10,000,000 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 Flexible use > 10 x cable diameter > 10,000,000 > 20 x cable diameter > 10,000,000 > 20 x cable diameter	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 Reference voltage 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 24 A	Shielding	Unshielded
Stationary position Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage Current loading > 5 x cable diameter > 10,000,000 300 V AC 2,500 V AC 250 V AC 250 V 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 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC 250 V DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A	Stationary position	> 5 x cable diameter
Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC 250 V DC Rated impulse voltage 2.5 kV Current loading ≤ 4 A	Drag chain operation	> 10 x cable diameter
Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC 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		250 V DC
	Rated impulse voltage	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	Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation
Authorizations	CE UL
UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
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		
Others					
	Connection type head A: Male connector, M12, 5-pin, straight, A-coded Description: Unshielded, Head A: male connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² Note: For field bus technology	STE-1205-G	6022083		
	Connection type head A: Female connector, M12, 5-pin, straight, A-coded Description: Unshielded, Head A: female connector, M12, 5-pin, straight, unshielded, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm²	DOS-1205-G	6009719		

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