

YF2A25-050UB6XLEAX

Sensor/actuator cable

PLUG CONNECTORS AND CABLES



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Ordering information

Туре	Part no.
YF2A25-050UB6XLEAX	2095733

Other models and accessories -> www.sick.com/Sensor_actuator_cable



Detailed technical data

Technical specifications

Accessory gaupPlug connectors and cablesAccessory familyConnection, cablesConnection type head AFinal connector, M12, 5-pin, straight, AcodedConnection type head AFinal connection, M12, 5-pin, straight, AcodedConnection type head ASea connection, Straight, AcodedConnector onBiokConnector onBiokConnector onBiokConnector onBiokConnector onBiokContextor onSin Survice, Plug A, Survice, Plug A		
Connection type head AFemale connector, M12, S-pin, straight, A-codedConnection type head BFing leadsLocking plug connectorGrew connectionConnector materialTPUConnector colorBlackLocking nut materialRind Caractan	Accessory group	Plug connectors and cables
Connection spe head B Flying leads Locking plug connector Sore connection Connector onaterial TPU Connector color Back Locking nut material Sind increase Seal material FKM Tightening torque 0.6 Nm Vidth across flats 13 Cable Sin Swire, PUR, halogen-free Jacket naterial Back Conductor coss section Back Cable diameter Sin Sinder Cable diameter Sin Sinder Stationary points Sinder Stationary points Sinder Fereibuse Sinder Stationary points Sinder Stationary points Sinder Sinder Stationary points Sinder Sinder Sinder Sinder Sinder Sinder Sinde	Accessory family	Connecting cables
Locking pictore Serve connection Connector material TPJ Connector color Back Locking nut material Cinciecast, nickel-plated Seal material KM Tightening torque 0.6 Nm Vidth across flats 13 Cable Sm, Swire, PUR, halogen-free Jacket naterial Nm, Swire, PUR, halogen-free Jacket color Back Jacket color Sm, Swire, PUR, halogen-free Jacket color Sm, Swire, PUR, halogen-free Conductor coss section Sm, Swire, PUR, halogen-free Shelding Sm, Swire, PUR, halogen-free Conductor coss section Sm, Swire, PUR, halogen-free Shelding Sm, Swire, PUR, halogen-free Ferking Sm, Swire, PUR, halogen-free Ferking Sm, Swire, PUR, halogen-free Shelding radius Sm, Swire, PUR, halogen-free Ferking Sm, Swire, PUR, halogen-free Ferking radiu Sm (Sm (Sm (Sm (Sm (Sm (Sm (Sm (Sm (Sm (Connection type head A	Female connector, M12, 5-pin, straight, A-coded
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Tightening torque0.6 NmWith across flats13Cable5m,5wire, PUR, halogen-freeJacket materialPUR, halogen-freeJacket colorBlackCable diameter5.6 mmConductor cross section0.34 mm²SheldingblaidedShelding radius-Flexible>10x cable diameterStationary position>10x cable diameterTorque factor cost section0.00,000Bending radius-Flexible>000,000Torque factor cost section300 VACReference voltage-Kording factor cost section-Solo Cost cost section-Stationary position-Stationary position <t< th=""><th>Locking nut material</th><th>Zinc die-cast, nickel-plated</th></t<>	Locking nut material	Zinc die-cast, nickel-plated
Width across flats13CableSm. Swire, PUR, halogen-freeJacket materialPUR, halogen-freeJacket colorBickJacket colorSin Swire, PUR, halogen-freeCable diameterSin Swire, PUR, halogen-freeConductor cross sectionSin Swire, PUR, halogen-freeSheldingSin Swire, PUR, halogen-freeBending radiusSin Swire, PUR, halogen-freeFreizieneSin Swire, PUR, halogen-freeStationary positionSin Scable diameterDrag chain operationSin Swire, PUR, halogen-freeBending ryclesSon Swire, PUR, halogen-freeNominal voltage, cableSon Swire, PUR, halogen-freeReference voltageSwire, PUR, halogen-freeKefference voltageSwire, PUR, halogen-freeStation operationSwire, PUR	Seal material	FKM
CableSin, Swine, PUR, halogen-freeJacket materialPIR, halogen-freeJacket colorBiakJacket colorBiakCable diameterSin Swine, PUR, halogen-freeConductor coss sectionSin Swine, PUR, AlongSheldingSin Swine, PUR, AlongBending radiusSin Swine, PUR, AlongStationary positionSin Scable diameterDarg chain operationSin Swine, PUR, AlongBending routesSin Swine, PUR, AlongStationary positionSin Scable diameterDarg chain operationSin Sun Sun Sun Sun Sun Sun Sun Sun Sun Su	Tightening torque	0.6 Nm
Jacket material PUR, halogen-free Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm² Shielding Shieldea Bending radius - Flexibure >10 x cable diameter Stationary position >10 x cable diameter </th <th>Width across flats</th> <th>13</th>	Width across flats	13
Jacket color Black Cable diameter 5.6 mm Conductor cross section 0.34 mm ² Shielding bhielded Bending radius 5.1 cable diameter Flexible tas 5.0 cable diameter Stationary positin 5.1 cable diameter Drag chain operation 1.0 x cable diameter Bending cycles 5.000,000 Nominal voltage, cable 3.00 V.AC Reference voltage 6.00 V.AC Gov AC 6.00 V.AC	Cable	5 m, 5-wire, PUR, halogen-free
Cable diameter 5.6 mm Conductor cross section 0.34 mm ² Shielding bhelde Shending radius 5.6 cable diameter Flexible >10x cable diameter Stationary position >5.5 cable diameter Drag chain opperation >10x cable diameter Stationary position >10x cable diameter Drag chain opperation >10x cable diameter Stationary position >10x cable diameter Nominal voltage, cable 5.000,000 Reference voltage 000 VAC Got VAC Sind VAC Stationary position	Jacket material	PUR, halogen-free
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Shielding Bielded Bending radius - Flexible >10 x cable diameter Stationary position >10 x cable diameter Drag chain operation >10 x cable diameter Bending radius >10 x cable diameter Drag chain operation >10 x cable diameter Drag chain operation >10 x cable diameter Stationary position >10 x cable diameter Bending cycles \$00 x 000 Reference voltage >00 x 0XC Go X AG Sing Constant Status Sing Constant Bieldid Sing Constant	Cable diameter	5.6 mm
Bending radius Flexible us Flexible us >10 x cable diameter Stationary position >5 x cable diameter Drag chain operation >10 x cable diameter Bending cycles >000 000 Nominal voltage, cable 300 V AC Reference voltage - 60 V AC 60 V AC	Conductor cross section	0.34 mm ²
Flexible is> 10 x cable diameterStationary position> 5 x cable diameterDrag chain operation> 10 x cable diameterBending cycles5,000,000Nominal voltage, cable300 V ACTest voltage, cable2,000 V ACBeference voltage-Berding cycles-Berding cycles- <th>Shielding</th> <th>Shielded</th>	Shielding	Shielded
Stationary position > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage - 00 V AC -	Bending radius	
Drag chain operation > 10 x cable diameter Bending cycles 5,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC Over AC 60 V AC Over AC 60 V AC	Flexi	ble use > 10 x cable diameter
Bending cycles5,000,000Nominal voltage, cable300 V ACTest voltage, cable2,000 V ACReference voltage600 V ACOUT DOUBLING600 V AC	Stationary p	position > 5 x cable diameter
Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC 60 V DC	Drag chain op	eration > 10 x cable diameter
Test voltage, cable 2,000 V AC Reference voltage 60 V AC 60 V DC 60 V DC	Bending cycles	5,000,000
Reference voltage 60 V AC 60 V DC	Nominal voltage, cable	300 V AC
60 V AC 60 V DC	Test voltage, cable	2,000 V AC
60 V DC	Reference voltage	
		60 V AC
Rated impulse voltage 1.5 kV		
	Rated impulse voltage	1.5 kV

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- ·· ·	
Current loading	4 A
Traversing speed	3.3 m/s
Travelling distance	5 m
Acceleration	$\leq 5 \text{ m/s}^2$
Signal type	Sensor/actuator cable
Torsion force	30°/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 Section 1090 (H), CSA FT2 / IEC 60332-2-2

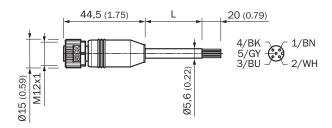
Classifications

ECLASS 5.0	19030312
ECLASS 5.0	19020215
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

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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 \ensuremath{Nm}	TOOL-TW06M12AF13	5337208			
Plug connectors and cables						
	 Connection type head A: Female connector, M12, 5-pin, straight 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			
	 Connection type head A: Male connector, M12, 5-pin, straight 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			

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



Online data sheet

