



# YF2A1B-050UD1XLEAX

Sensor-actuator cables

CONNECTORS AND CABLES

**SICK**  
Sensor Intelligence.



Ordering information

Type	part no.
YF2A1B-050UD1XLEAX	2119019

Other models and accessories → [www.sick.com/Sensor-actuator\\_cables](http://www.sick.com/Sensor-actuator_cables)



Detailed technical data

Technical specifications

Connection type head A	Female connector, M12, 12-pin, straight, A-coded
Connection 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
Tightening torque	0.6 Nm
Width across flats	13
Cable	5 m, 12-wire, PUR, halogen-free
Jacket material	PUR, halogen-free
Jacket color	Black
Cable diameter	6 mm
Conductor cross section	0.14 mm <sup>2</sup>
Shielding	Unshielded
Bending radius	
Flexible use	> 15 x cable diameter
Stationary position	> 7.5 x cable diameter
Drag chain operation	> 10 x cable diameter
Bending cycles	≤ 2,000,000
Nominal voltage, cable	300 V AC
Test voltage, cable	1,500 V AC
Reference voltage	
	230,337 V DC
	230,337 V DC
Rated impulse voltage	0.8 kV
Current loading	1.5 A
Traversing speed	3.3 m/s

<b>Travelling distance</b>	5 m
<b>Acceleration</b>	$\leq 5 \text{ m/s}^2$
<b>Signal type</b>	Sensor/actuator cable
<b>Torsion force</b>	180°
<b>Application</b>	Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation
<b>Enclosure rating</b>	IP65 / IP66 / IP67
<b>Operating temperature</b>	
Flexible use	-25 °C ... +85 °C
Stationary position	-40 °C ... +85 °C
Drag chain operation	-25 °C ... +85 °C
Head	-25 °C ... +85 °C
<b>Contamination rating</b>	3
<b>Insulation resistance</b>	100 MΩ
<b>Overvoltage category</b>	III
<b>Specific insulation resistance</b>	30 mΩ

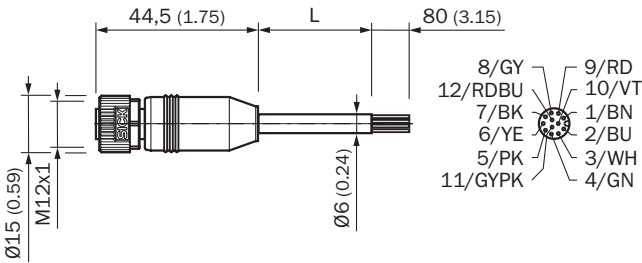
## Certificates

<b>EU declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>cULus certificate</b>	✓

## Classifications

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

Dimensional drawing



Dimensions in mm (inch)

## 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](http://www.sick.com)