

# YF2A25-015UB6XLEAX

Sensor/actuator cable

**PLUG CONNECTORS AND CABLES** 





#### Ordering information

Туре	Part no.
YF2A25-015UB6XLEAX	2095833

Other models and accessories -> www.sick.com/Sensor\_actuator\_cable



#### Detailed technical data

#### Technical specifications

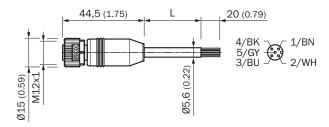
Accessory group         Plug connectors and cables           Accessory family         connecting cables           Connection type head A         Female connector, M12, 5-pin, straight, A-coded           Connection type head B         Flying leads           Locking plug connector         Screw connection           Connector material         TPU           Connector color         Black           Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Width across flats         13           Cable         1.5 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable dlameter         5.6 mm           Conductor cross section         0.34 mm²           Shielding         Shielded           Bending radius         Flexible use         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Stationary position         > 10 x cable diame		
Connection type head A         Female connector, M12, 5-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         1.5 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.6 mm           Conductor cross section         0.34 mm²           Shielding         Shielded           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         5,000,000           Nominal voltage, cable         300 V AC           Test voltage, cable         60 V AC           60 V AC         60 V AC           60 V AC         60 V DC	Accessory group	Plug connectors and cables
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         1.5 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.6 mm           Conductor cross section         0.34 mm²           Shielded         Shielded           Bending radius         Flexible use Stationary position Drag chain operation         > 1.0 x cable diameter           Drag chain operation Drag chain operation         > 1.0 x cable diameter           Should diameter         1.0 x cable diameter           Stationary position Drag chain operation         2.0 x cable diameter           Should diameter         2.0 x cable diameter           Stationary position Drag chain operation         2.0 x cable diameter           Should diameter         3.00 v acale diameter           Scould diameter         3.00 v acale diameter           Scould d	Accessory family	Connecting 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     1.5 m, 5-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     5.6 mm       Conductor cross section     0.34 mm²       Shielding     Shielded       Bending radius     Flexible use Stationary position Drag chain operation     > 1.0 x cable diameter       Drag chain operation     > 1.0 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       60 V AC </th <th>Connection type head A</th> <th>Female connector, M12, 5-pin, straight, A-coded</th>	Connection type head A	Female connector, M12, 5-pin, straight, A-coded
Connector material Connector color Black Locking nut material Seal material FKM Tightening torque Width across flats 13 Cable Jacket material PUR, halogen-free Jacket color Black Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Reference voltage Flexible use Convertible use Stationary oos VAC Reference voltage Flexible use GOV AC GOV AC GOV DC FKM Zinc die-cast, nickel-plated Slack Zinc die-cast, nickel-plated Sinckel-plated Sinck	Connection type head B	Flying leads
Connector color  Locking nut material  Seal material  FKM  Tightening torque  Width across flats  13  Cable  1.5 m, 5-wire, PUR, halogen-free  Jacket material  Jacket color  Black  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  60 V AC  60 V DC	Locking plug connector	Screw connection
Locking nut material  Seal material  FKM  Tightening torque  0.6 Nm  Width across flats  13  Cable  1.5 m, 5-wire, PUR, halogen-free  PUR, halogen-free  Black  Cable diameter  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  60 V AC  60 V DC	Connector material	TPU
Seal material     FKM       Tightening torque     0.6 Nm       Width across flats     13       Cable     1.5 m, 5-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     5.6 mm       Conductor cross section     0.34 mm²       Shielding     Shielded       Bending radius     > 10 x cable diameter       Flexible use Stationary position Drag chain operation     > 5 x cable diameter       Nominal voltage, cable     5,000,000       Nominal voltage, cable     300 V AC       Reference voltage     60 V AC       60 V AC     60 V DC	Connector color	Black
Tightening torque  Width across flats  13  Cable  1.5 m, 5-wire, PUR, halogen-free  Jacket material  Jacket color  Black  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Bending vycles  Nominal voltage, cable  Reference voltage  60 V AC 60 V DC	Locking nut material	Zinc die-cast, nickel-plated
Width across flats         13           Cable         1.5 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.6 mm           Conductor cross section         0.34 mm²           Shielding         Shielded           Bending radius         > 10 x cable diameter           Stationary position Drag chain operation         > 5 x cable diameter           Nominal voltage, cable         5,000,000           Nominal voltage, cable         300 V AC           Test voltage, cable         2,000 V AC           Reference voltage         60 V AC           60 V DC         60 V DC	Seal material	FKM
Cable         1.5 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.6 mm           Conductor cross section         0.34 mm²           Shielding         Shielded           Bending radius         Flexible use Stationary position Drag chain operation         > 10 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         60 V AC           60 V DC	Tightening torque	0.6 Nm
Jacket material Jacket color Black 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  60 V AC 60 V DC	Width across flats	13
Jacket color Cable diameter 5.6 mm Conductor cross section Shielding Shielded  Flexible use Stationary position Drag chain operation Drag chain operation Sending cycles Nominal voltage, cable Test voltage, cable Reference voltage  60 V AC 60 V DC	Cable	1.5 m, 5-wire, PUR, halogen-free
Cable diameter Conductor cross section  Shielding Shielded  Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation  Pending cycles Nominal voltage, cable Test voltage, cable  Reference voltage  60 V AC 60 V DC	Jacket material	PUR, halogen-free
Conductor cross section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Nominal voltage, cable  Test voltage, cable  Reference voltage  60 V AC  60 V DC	Jacket color	Black
Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Pending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  60 V AC  60 V DC	Cable diameter	5.6 mm
Flexible use Stationary position Drag chain operation > 10 x cable diameter > 5 x cable diameter > 10 x cable	Conductor cross section	0.34 mm <sup>2</sup>
Flexible use Stationary position Drag chain operation > 10 x cable diameter  5 x cable diameter  10 x cable diameter	Shielding	Shielded
Stationary position Drag chain operation  5,000,000  Nominal voltage, cable  300 V AC  Test voltage, cable  2,000 V AC  Reference voltage  60 V AC  60 V DC	Bending radius	
Drag chain operation > 10 x cable diameter  5,000,000  Nominal voltage, cable 300 V AC  Test voltage, cable 2,000 V AC  Reference voltage 60 V AC 60 V DC	F	lexible use > 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 60 V DC	Stationa	ry position > 5 x cable diameter
Nominal voltage, cable  Test voltage, cable  2,000 V AC  Reference voltage  60 V AC  60 V DC	Drag chain	operation > 10 x cable diameter
Test voltage, cable  Reference voltage  60 V AC  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		60 V DC
	Rated impulse voltage	1.5 kV

Current loading	4 A
Traversing speed	3.3 m/s
Travelling distance	5 m
Acceleration	≤ 5 m/s²
Signal type	Sensor/actuator cable
Torsion force	30°/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 Section 1090 (H), CSA FT2 / 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	ng accessories				
	1 piece, M12 mounting key set for SW13 with calibrated torque 0.6 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

