

# YF2A15-090UB5XLEAX

Sensor/actuator cable





#### Ordering information

Туре	Part no.
YF2A15-090UB5XLEAX	2095846

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



#### Detailed technical data

#### Technical specifications

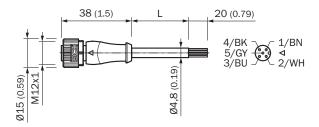
Connection type head B         Female connector, M12, 5-pin, straight, A-coded           Connector type head B         Flying leads           Locking plug connector         Screw connection           Connector material         TPU           Connector color         Black           Locking nut material         FKM           Seal material         FKM           Width across flats         13           Cable         9 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position poration         > 10 x cable diameter           Stationary position Drag chain operation         > 2.0 x cable diameter           > 5 x cable diameter         > 10 x cable diameter           Stationary position poration         2.00 x cable diameter           Stationary position poration         2.5 x cable diameter		
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     9 m, 5-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     4.8 mm       Conductor cross section     0.34 mm²       Shielding     Unshielded       Bending radius     > 10 x cable diameter       Stationary position Drag chain operation Drag chain operation Prag chain operation 20 x cable diameter     > 10 x cable diameter       Stationary position Prag chain operation Drag chain operation Drag chain operation 20 x cable diameter     > 10 x cable diameter       Stationary position Drag chain operation Drag chain operation Drag chain operation 20 x cable diameter     > 10 x cable diameter       Stationary position Drag chain operation Drag chain operation Drag chain operation 20 x cable diameter     > 10 x cable diameter       Bending cycles     1,0000,000       Nominal voltage, cable     2,500 v AC       Reference voltage     125 v AC       125 v DC       Rated impulse voltage     1,5 kV       Current loading     4 A	Connection type head A	Female connector, M12, 5-pin, straight, A-coded
Connector material Connector color  Locking nut material FKM  Seal material FKM  Tightening torque 0.6 Nm  Width across flats 13  Cable 9 m, 5-wire, PUR, halogen-free 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  Reference voltage  1.5 kV  Current loading  TPU  Black Zinc die-cast, nickel-plated FKM  A  I Sik M  Zinc die-cast, nickel-plated FKM  A  A  Seal material  FKM  O.6 Nm  Au  Sal material  PUR, halogen-free  PUR, halogen-free  Jacket diameter  - 2.5 x cable d	Connection type head B	Flying leads
Connector color Locking nut material Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 9 m, 5-wire, PUR, halogen-free Jacket material Jacket color Black Cable diameter 4.8 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending voltage, cable Test voltage, cable Reference voltage 1.5 kV Current loading  FKM 13 FKM 13 Cable 9 m, 5-wire, PUR, halogen-free 9 Halogen-free 9 Halogen-free 9 Line diameter 9 m, 5-wire, PUR, halogen-free 9 m, 5-wire, PUR, halogen	Locking plug connector	Screw connection
Cocking nut material	Connector material	TPU
Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         9 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 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         1,000,000           Nominal voltage, cable         300 V AC           Test voltage, cable         2,500 V AC           Reference voltage         125 V AC           125 V DC           Rated impulse voltage         1.5 kV           Current loading         4 A	Connector color	Black
Tightening torque         0.6 Nm           Width across flats         13           Cable         9 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         > 10 x cable diameter           Stationary position Drag chain operation         > 5 x cable diameter           > 10 x cable diameter         > 10 x cable diameter           > 10 x cable diameter         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           > 10 x cable diameter         > 10 x cable diameter           2 5 x cable diameter         > 10 x cable diameter           2 5 x x cable diameter         > 10 x cable diameter           2 5 x x cable diameter         > 10 x cable diameter           2 5 x x x cable diameter         > 10 x cable diameter           2 5 x x x cable diameter         > 10 x cable diameter           2 5 x x x x x x x x x x x x x x x x x x	Locking nut material	Zinc die-cast, nickel-plated
Width across flats         13           Cable         9 m, 5-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         4.8 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         2,500 V AC           Reference voltage         125 V AC           125 V DC         125 V DC           Rated impulse voltage         1.5 kV           Current loading         4 A	Seal material	FKM
Cable 9 m, 5-wire, PUR, halogen-free  Jacket material PUR, halogen-free  Black Cable diameter 4.8 mm Conductor cross section 0.34 mm² Shielding Unshielded  Flexible use Stationary position Drag chain operation Drag chain operation 2.5 x cable diameter 10.000,000  Bending cycles 10,000,000  Nominal voltage, cable 300 V AC  Test voltage, cable 2,500 V AC  Reference voltage 125 V AC 125 V DC  Rated impulse voltage 4 A	Tightening torque	0.6 Nm
Jacket material  Jacket color  Black Cable diameter  4.8 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  125 V AC 125 V DC  Rated impulse voltage  Current loading  PUR, halogen-free Black  4.8 mm  0.34 mm²  10.34 mm²  10.34 mm²  10.34 cable diameter  > 5 x cable diameter  > 10 x cable diame	Width across flats	13
Jacket color Cable diameter 4.8 mm Conductor cross section 0.34 mm² Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation  Bending cycles 10,000,000 Nominal voltage, cable Test voltage, cable 125 V AC 125 V DC Rated impulse voltage Current loading  Black 4.8 mm 4.8 mm 4.8 mm  4.8 mm  4.8 mm  5.3 x able diameter  > 10 x cable diameter  > 10 x cable diameter  > 10,000,000  AC  2,500 V AC  125 V DC  Rated impulse voltage 4.A	Cable	9 m, 5-wire, PUR, halogen-free
Cable diameter Conductor cross section  Shielding Bending radius  Flexible use Stationary position Drag chain operation  Pending cycles Nominal voltage, cable Test voltage  125 V AC 125 V DC  Rated impulse voltage Current loading  4.8 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 x cable diameter > 10,000,000  300 V AC 2,500 V AC  125 V AC 125 V DC  Rated impulse voltage  4 A	Jacket material	PUR, halogen-free
Conductor cross section  Shielding  Bending radius  Flexible use Stationary position Drag chain operation  Nominal voltage, cable  Test voltage, cable  125 V AC 125 V DC  Rated impulse voltage  Current loading  O.34 mm²  Unshielded  Unshielded  Unshielded  Unshielded  10 x cable diameter  > 10 x c	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  125 V AC 125 V DC  Rated impulse voltage  Current loading  Unshielded  > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter    10 x cable diameter   10 x cable diameter   10 x cable diameter   10 x cable diameter   10 x cable diamete	Cable diameter	4.8 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  125 V AC 125 V DC  Rated impulse voltage  1.5 kV  Current loading  Plexible use > 10 x cable diameter > 10 x cable diameter > 10,000,000  > 200 V AC  2,500 V AC  125 V AC 125 V AC 125 V DC  A A	Conductor cross section	0.34 mm <sup>2</sup>
Flexible use Stationary position Drag chain operation  Bending cycles 10,000,000  Nominal voltage, cable Test voltage, cable 125 V AC 125 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  125 V AC 125 V DC  4 A	Shielding	Unshielded
Stationary position Drag chain operation  Bending cycles 10,000,000  Nominal voltage, cable 2,500 V AC  Test voltage 125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading  > 5 x cable diameter > 10,000,000  300 V AC  2,500 V AC  125 V AC 125 V DC  4 A	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 125 V AC 125 V DC  Rated impulse voltage 1.5 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         125 V AC           125 V DC         125 V DC           Rated impulse voltage         1.5 kV           Current loading         4 A	Stationary position	> 5 x cable diameter
Nominal voltage, cable  Test voltage, cable  2,500 V AC  Reference voltage  125 V AC  125 V DC  Rated impulse voltage  1.5 kV  Current loading  300 V AC  2,500 V AC	Drag chain operation	> 10 x cable diameter
Test voltage, cable 2,500 V AC  Reference voltage 125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A	Bending cycles	10,000,000
Reference voltage  125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A	Nominal voltage, cable	300 V AC
125 V AC 125 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A	Test voltage, cable	2,500 V AC
125 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A	Reference voltage	
Rated impulse voltage 1.5 kV Current loading 4 A		125 V AC
Current loading 4 A		125 V DC
	Rated impulse voltage	1.5 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		

### 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:**

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