

# YF2A24-100UB4XLEAX

Sensor/actuator cable





#### Ordering information

Туре	Part no.
YF2A24-100UB4XLEAX	2095730

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



#### Detailed technical data

#### Technical specifications

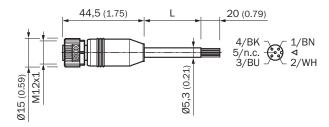
Connection type head B         Female connector, M12, 4-pin, straight, A-coded           Connection type head B         Flying leads           Locking plug connector         Screw connection           Connector material         TPU           Connector color         Black           Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Width across flats         13           Cable         10 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.3 mm           Conductor cross section         0.34 mm²           Shielding         Shielded           Bending radius         Flexible use, Stationary position Drag chain operation         > 10 x cable diameter           Stationary position Drag chain operation         > 10 x cable diameter           Shielding cycles         5.000,000           Nominal voltage, cable         3.00 v AC           Gerence voltage         60 V AC           GOV DC         Caterial in pulse voltage         1.5 kV           Current loading         4 A           Taversing speed         3.3 mys		
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     10 m, 4-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     5.3 mm       Conductor cross section     0.34 mm²       Shielding     Shielded       Bending radius     > 10 x cable diameter       Flexible use     > 10 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     2,000 V AC       Reference voltage     60 V AC       60 V DC       Rated impulse voltage     1.5 kV       Current loading     4 A	Connection type head A	Female connector, M12, 4-pin, straight, A-coded
Connector color         Black           Locking nut material         Zinc die cast, nickel-plated           Seal material         FKM           Uightening torque         0.6 Nm           Width across flats         13           Cable         10 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.3 mm           Conductor cross section         0.34 mm²           Shielding         Shielded           Bending radius         Flexible use Stationary position Drag chain operation Prag chain operation Pr	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     10 m, 4-wire, PUR, halogen-free       Jacket material     PUR, halogen-free       Jacket color     Black       Cable diameter     5.3 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     > 5 x cable diameter       Stownial voltage, cable     300 V AC       Test voltage, cable     2,000 V AC       Reference voltage     60 V AC       60 V AC     60 V DC       Rated impulse voltage     1.5 kV       Current loading     4 A	Locking plug connector	Screw connection
Locking nut material         Zinc die-cast, nickel-plated           Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         10 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.3 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           Soud, 000         300 v AC           Test voltage, cable         2,000 v AC           Reference voltage         60 v AC           60 v DC         60 v DC           Rated impulse voltage         1.5 kV           Current loading         4 A	Connector material	TPU
Seal material         FKM           Tightening torque         0.6 Nm           Width across flats         13           Cable         10 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.3 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           Rated impulse voltage         1.5 kV           Current loading         4 A	Connector color	Black
Tightening torque         0.6 Nm           Width across flats         13           Cable         10 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.3 mm           Conductor cross section         0.34 mm²           Shielding         Shielded           Bending radius         Flexible use           Stationary position Drag chain operation         > 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         60 V AC           60 V DC         C           Rated impulse voltage         1.5 kV           Current loading         4 A	Locking nut material	Zinc die-cast, nickel-plated
Width across flats         13           Cable         10 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.3 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         > 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           Rated impulse voltage         1.5 kV           Current loading         4 A	Seal material	FKM
Cable         10 m, 4-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Black           Cable diameter         5.3 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 Drag chain operation Drag chain operation Stationary Position Drag chain operation Stationary Position Stationary Posi	Tightening torque	0.6 Nm
Jacket color Black Cable diameter 5.3 mm Conductor cross section O.34 mm² Shielding Bending radius  Flexible use Stationary position Drag chain operation Drag chain operation Source Stationary volume Drag chain operation Drag chain operation Source Sourc	Width across flats	13
Jacket color Cable diameter 5.3 mm Conductor cross section 0.34 mm² 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 Rated impulse voltage Current loading 4 A	Cable	10 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross section  Shielding Bending radius  Flexible use Stationary position Drag chain operation  Pending cycles  Nominal voltage, cable  Reference voltage  60 V AC 60 V DC  Rated impulse voltage  Current loading  5 Shielded  5 Shielded  5 Shielded  5 Shielded  5 10 x cable diameter > 5 x cable diameter > 10 x cable diameter >	Jacket material	PUR, halogen-free
Conductor cross section  Shielding  Bending radius  Flexible use	Jacket color	Black
Shielding Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Shool,000  Nominal voltage, cable  Test voltage, cable  Reference voltage  60 V AC  60 V DC  Rated impulse voltage  Current loading  Shielded  > 10 x cable diameter > 5 x cable diameter > 10 x cable diameter > 5,000,000  300 V AC  2,000 V AC  60 V DC  Rated impulse voltage  4 A	Cable diameter	5.3 mm
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  Rated impulse voltage  1.5 kV  Current loading  Plexible use > 10 x cable diameter	Conductor cross section	0.34 mm <sup>2</sup>
Flexible use Stationary position Drag chain operation  Bending cycles  Nominal voltage, cable  Test voltage, cable  Reference voltage  60 V AC  60 V DC  Rated impulse voltage  Current loading  > 10 x cable diameter  > 5 x cable diameter  > 10 x cable diameter	Shielding	Shielded
Stationary position Drag chain operation  Dr	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  Rated impulse voltage 1.5 kV  Current loading 4 A	Flexible 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         60 V DC           Rated impulse voltage         1.5 kV           Current loading         4 A	Stationary 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           Rated impulse voltage         1.5 kV           Current loading         4 A	Drag chain operation	> 10 x cable diameter
Test voltage, cable 2,000 V AC  Reference voltage 60 V AC 60 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A	Bending cycles	5,000,000
Reference voltage  60 V AC  60 V DC  Rated impulse voltage  1.5 kV  Current loading  4 A	Nominal voltage, cable	300 V AC
60 V AC 60 V DC  Rated impulse voltage 1.5 kV  Current loading 4 A	Test voltage, cable	2,000 V AC
Rated impulse voltage 1.5 kV Current loading 4 A	Reference voltage	
Rated impulse voltage 1.5 kV Current loading 4 A		60 V AC
Current loading 4 A		60 V DC
		1.5 kV
Traversing speed 3.3 m/s	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	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 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 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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