

YF2A2B-050S01M2D24

Other connectors and cables





Ordering information

Туре	Part no.
YF2A2B-050S01M2D24	2119377

Other models and accessories → www.sick.com/Other_connectors_and_cables

Detailed technical data

Technical specifications

Connection type head A Female connector, M12, 12-pin, straight, A-coded Connector type head B Male connector, M12, 12-pin, straight, D-coded Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material FKM Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Violet Cable diameter 6.8 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use > 12 x cable diameter Stationary position > 7.5 x cable diameter Drag chain operation > 12 x cable diameter Reference voltage ≤ 30 V DC Rated impulse voltage ≤ 30 V DC Rated impulse voltage ≤ new vith oils and lubricants Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use -20	recrimical specifications	
Connector material TPU	Connection type head A	Female connector, M12, 12-pin, straight, A-coded
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, 4-wire, PUR, halogen-free Jacket anterial PUR, halogen-free Jacket color Violet Cable diameter 6.8 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Paragonal position Paragona	Connection type head B	Male connector, M12, 4-pin, straight, D-coded
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, 4-wire, PUR, halogen-free Jacket color Violet Cable diameter 6.8 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 12 x cable diameter Reference voltage ≤ 30 V DC Rated impulse voltage ≤ 30 V DC Rated impulse voltage ≤ 30 V DC Current loading ≤ 1.5 A Signal type Sensor/actuator cable Application Zones with oils and lubricants Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position Head 20 ° C +80 ° C Flexible use Stationary position Head 20 ° C +80 ° C Contamination rating 3	Locking plug connector	Screw connection
Docking nut material	Connector material	TPU
Seal material FKM Tightening torque 0.6 Nm Width across flats 13 Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Violet Cable diameter 6.8 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position > 12 x cable diameter Drag chain operation > 12 x cable diameter Reference voltage ≤ 30 ∨ DC Rated impulse voltage ≤ 30 ∨ DC Qurrent loading ≤ 1.5 A Signal type Sensor/actuator cable Application Zones with oils and lubricants Enclosure rating IP65 / IP66K / IP67 Operating temperature -20 °C +80 °C Head -25 °C +85 °C Contamination rating 3	Connector color	Black
Tightening torque	Locking nut material	Zinc die-cast, nickel-plated
Width across flats Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Violet Cable diameter 6.8 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation Reference voltage ≤ 30 V DC Rated impulse voltage 0.8 kV Current loading ≤ 1.5 A Signal type Sensor/actuator cable Application Zones with oils and lubricants Enclosure rating UP65 / IP66K / IP67 Operating temperature Flexible use -20 ° C +80 ° C -40 ° C +80 ° C -25 ° C +85 ° C Contamination rating 3	Seal material	FKM
Cable 5 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Violet Cable diameter 6.8 mm Conductor cross section 0.25 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 12 x cable diameter Packet impulse voltage ≤ 30 V DC Rated impulse voltage 0.8 kV Current loading ≤ 1.5 A Signal type Sensor/actuator cable Application Zones with oils and lubricants Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position Head -20 °C +80 °C Head -25 °C +85 °C Contamination rating 3	Tightening torque	0.6 Nm
Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Page 4 Signal type Application Enclosure rating Operating temperature Flexible use Stationary position Contamination rating PUR, halogen-free Violet 6.8 mm 0.25 mm² Shielded Shielded	Width across flats	13
Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Prescription Reference voltage ≤ 30 V DC Rated impulse voltage Current loading Signal type Application Enclosure rating Operating temperature Flexible use > 12 x cable diameter > 7.5 x cable diameter > 12 x cable diameter	Cable	5 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation Orag chain operation Flexible use Sanov DC Rated impulse voltage Current loading Signal type Application Enclosure rating Operating temperature Flexible use Stationary position Head Flexible use Stationary position Head Contamination rating 6.8 mm 0.25 mm² Shielded Stationary position 0.25 mm² Stationary position 0.25 mcm² Stationary position 12 x cable diameter > 12 x cable diameter	Jacket material	PUR, halogen-free
Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Reference voltage ≤ 30 ∨ DC Rated impulse voltage ≤ 30 ∨ DC Rated impulse voltage ≤ 1.5 A Signal type Application Enclosure rating Operating temperature Flexible use Stationary position Head Contamination rating 0.25 mm² Shielded > 12 x cable diameter > 7.5 x cable diameter > 12 x cable diameter	Jacket color	Violet
Shielding Bending radius Flexible use Stationary position Drag chain operation Prag chain operation Reference voltage \$\frac{30\text{ VDC}}{2.5\text{ Cable diameter}}\$ \$<\frac{30\text{ VDC}}{2.5\text{ Cable diameter}}\$ Current loading \$\frac{1.5\text{ A}}{2.5\text{ Sensor/actuator cable}}\$ Application Enclosure rating Operating temperature Flexible use Stationary position Head Contamination rating Shielded \$\frac{12\text{ Cable diameter}}{2.7.5\text{ Cable diameter}}\$ \$\frac{12\text{ Cable diameter}}{2.7.5\text{ Cable diameter}}\$ \$\frac{12\text{ Cable diameter}}{2.2\text{ Combination Cable}}\$ \$\frac{230\text{ VDC}}{2.5\text{ C}}\$ \$\frac{20\text{ CC}}{2.0\text{ C} +80\text{ °C}}\$ \$\frac{20\text{ C} +80\text{ °C}}{2.5\text{ °C}}\$ \$\frac{20\text{ °C}}{2.0\text{ ·} +85\text{ °C}}\$ \$\frac{20\text{ ·} +85\text{ °C}}{2.0\text{ ·} +85\text{ ·}}\$	Cable diameter	6.8 mm
Bending radius Flexible use Stationary position Drag chain operation Reference voltage ≤ 30 V DC Rated impulse voltage Current loading Signal type Application Enclosure rating Operating temperature Flexible use Stationary position Head Contamination rating > 12 x cable diameter > 12 x cable diameter > 12 x cable diameter > 12 x cable diameter > 12 x cable diameter > 12 x cable diameter	Conductor cross section	0.25 mm ²
Flexible use Stationary position Drag chain operation Reference voltage ≤ 30 V DC Rated impulse voltage ≤ 30 V DC Rated impulse voltage ≤ 1.5 A Signal type Application Enclosure rating Operating temperature Flexible use Stationary position Head Contamination rating > 12 x cable diameter > 7.5 x cable diameter > 12 x cable diameter > 12 x cable diameter	Shielding	Shielded
Stationary position Drag chain operation Reference voltage ≤ 30 V DC Rated impulse voltage Current loading ≤ 1.5 A Signal type Application Enclosure rating Operating temperature Flexible use Stationary position Head Contamination rating > 7.5 x cable diameter > 12 x cable diameter	Bending radius	
Prag chain operation Reference voltage ≤ 30 V DC Rated impulse voltage Current loading Signal type Application Enclosure rating Operating temperature Flexible use Stationary position Head Contamination rating > 12 x cable diameter > 18 x cable diameter > 18 x cable diameter > 18 x cable diameter	Flexible use	> 12 x cable diameter
Reference voltage ≤ 30 V DC Rated impulse voltage Current loading ≤ 1.5 A Signal type Sensor/actuator cable Zones with oils and lubricants Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position Head Contamination rating 3	Stationary position	> 7.5 x cable diameter
Signal type Application Enclosure rating Operating temperature Flexible use Stationary position Head Contamination rating ≤ 30 V DC 0.8 kV ≤ 1.5 A Sensor/actuator cable Zones with oils and lubricants IP65 / IP66K / IP67 Flexible use -20 °C +80 °C -40 °C +80 °C -25 °C +85 °C 3	Drag chain operation	> 12 x cable diameter
Rated impulse voltage 0.8 kV Current loading ≤ 1.5 A Signal type Sensor/actuator cable Application Zones with oils and lubricants Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use -20 °C +80 °C -40 °C +80 °C -25 °C +85 °C Contamination rating 3	Reference voltage	
Current loading ≤ 1.5 A Signal type Sensor/actuator cable Application Zones with oils and lubricants Enclosure rating IP65 / IP66K / IP67 Operating temperature Flexible use Stationary position -20 °C +80 °C -40 °C +80 °C -25 °C +85 °C Contamination rating 3		≤ 30 V DC
Signal type Application Zones with oils and lubricants Enclosure rating Operating temperature Flexible use Flexible use Stationary position Head Contamination rating Sensor/actuator cable Zones with oils and lubricants IP65 / IP66K / IP67 Occur +80 °C -40 °C +80 °C -25 °C +85 °C Zones with oils and lubricants IP65 / IP66K / IP67 Occur +80 °C -40 °C +80 °C -25 °C +85 °C	Rated impulse voltage	0.8 kV
Application Enclosure rating Operating temperature Flexible use Flexible use Contamination rating Flexible use Contamination Flexible use Flexible	Current loading	≤ 1.5 A
Enclosure rating Operating temperature Flexible use -20 °C +80 °C Stationary position -40 °C +80 °C Head -25 °C +85 °C Contamination rating	Signal type	Sensor/actuator cable
Operating temperature Flexible use -20 °C +80 °C Stationary position -40 °C +80 °C Head -25 °C +85 °C Contamination rating 3	Application	Zones with oils and lubricants
Flexible use -20 °C +80 °C Stationary position -40 °C +80 °C Head -25 °C +85 °C Contamination rating 3	Enclosure rating	IP65 / IP66K / IP67
Stationary position -40 °C +80 °C Head -25 °C +85 °C Contamination rating 3	Operating temperature	
Head -25 °C +85 °C Contamination rating 3		
Contamination rating 3	•	
Insulation resistance $100 \text{ M}\Omega$		
	Insulation resistance	100 ΜΩ

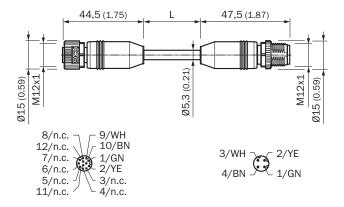
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Overvoltage category	III
Specific insulation resistance	30 mΩ

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))



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