

YF2A14-100UJ2M2A14

Other connectors and cables



YF2A14-100UJ2M2A14 | Other connectors and cables



Ordering information

Туре	Part no.
YF2A14-100UJ2M2A14	2121294

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



Detailed technical data

Technical specifications

Connection type head B Male connector, M12, 4-pin, straight, A-coded Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation Drag chain oper	real apacinations	
Locking plug connector Screw connection Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Gray Cable dlameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Stationary position Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2,5 kV Current loading 4 A Travesling speed 3 m/s Travelling distance 10 m/s²	Connection type head A	Male connector, M12, 4-pin, straight, A-coded
Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Flexible use > 10 x cable diameter Stationary position > 5 x cable diameter Prag chain operation > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 250 V AC Reference voltage 250 V AC Rated impulse voltage 2.5 kV Current loading 4 A Travesling speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Connection type head B	Female connector, M12, 4-pin, straight
Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Flexible use Stationary position Drag chain operation > 10 x cable diameter > 5 x cable diameter 10 x cable diameter Bending cycles 1,0000,000 Nominal voltage, cable 2,500 V AC Test voltage, cable 2,500 V AC Reference voltage 2,5 V AC 250 V DC Rated impulse voltage 2,5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration	Locking plug connector	Screw connection
Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Flexible use Stationary position Drag chain operation > 5 x cable diameter Drag chain operation > 10 x cable diameter Nominal voltage, cable 300 ∨ AC Test voltage, cable 250 ∨ AC 250 ∨ AC 250 ∨ DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m/s²	Connector material	TPU
Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Gray Cable diameter 4.5 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 Nominal voltage, cable 10,000,000 Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Connector color	Black
Width across flats 13 Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Paraginal Para	Locking nut material	Zinc die-cast, nickel-plated
Cable 10 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V DC Rated impulse voltage 2,5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Tightening torque	0.6 Nm
Jacket material PUR, halogen-free Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shelding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V DC Rated impulse voltage 2,5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Width across flats	13
Jacket color Gray Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius Flexible use Stationary position > 5 x cable diameter > 5 x cable diameter > 10 x cable diameter Properties 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V DC Rated impulse voltage 2,5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Cable	10 m, 4-wire, PUR, halogen-free
Cable diameter 4.5 mm Conductor cross section 0.34 mm² Shielding Unshielded Bending radius > 10 x cable diameter Stationary position Drag chain operation > 5 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	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 250 V AC 250 V DC Rated impulse voltage Current loading Traversing speed Travelling distance Acceleration 0.34 mm² Unshielded Unshielded > 10 x cable diameter > 5 x cable diameter > 5 x cable diameter > 10,000,000 300 V AC 2,500 V AC 2,500 V AC 250 V AC 250 V DC Rated impulse voltage 3 m/s 1 m/s²	Jacket color	Gray
Shielding Unshielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC Eated impulse voltage 2.5 kV Current loading 4 A Traverling distance 3 m/s Acceleration ≤ 10 m/s²	Cable diameter	4.5 mm
Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles 10,000,000 Nominal voltage, cable 2,500 ∨ AC Reference voltage 250 ∨ AC 250 ∨ DC Rated impulse voltage 2.5 kV Current loading Traversing speed Travelling distance Acceleration > 10 x cable diameter > 10 x cable diameter > 10,000,000 300 ∨ AC 2,500 ∨ AC 2,500 ∨ AC 250 ∨ AC 250 ∨ DC	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation > 10 x cable diameter > 5 x cable diameter > 10 x cable	Shielding	Unshielded
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 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading Traversing speed Travelling distance Acceleration > 5 x cable diameter > 10,000,000 300 V AC 2,500 V AC 2,500 V AC 2,500 V AC 250 V DC	Bending radius	
Drag chain operation > 10 x cable diameter Bending cycles 10,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	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 250 V AC 250 V DC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Stationary position	> 5 x cable diameter
Nominal voltage, cable 300 V AC Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Drag chain operation	> 10 x cable diameter
Test voltage, cable 2,500 V AC Reference voltage 250 V AC 250 V DC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Bending cycles	10,000,000
Reference voltage 250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Nominal voltage, cable	300 V AC
250 V AC 250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Test voltage, cable	2,500 V AC
250 V DC Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Reference voltage	
Rated impulse voltage 2.5 kV Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²		250 V AC
Current loading 4 A Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²		
Traversing speed 3 m/s Travelling distance 10 m Acceleration ≤ 10 m/s²	Rated impulse voltage	2.5 kV
Travelling distance 10 m Acceleration ≤ 10 m/s²	Current loading	
Acceleration ≤ 10 m/s²	Traversing speed	
· · ·		
Signal type Sensor/actuator cable		≤ 10 m/s²
	Signal type	Sensor/actuator cable

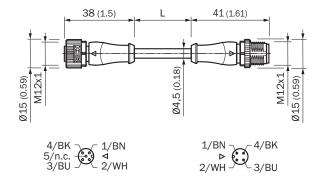
Torsion force	180°/1m
Torsion cycles	2,000,000
Cycles per minutes	35
Application	Uncontaminated zones Zones with oils and lubricants Robot Drag chain operation
Authorizations	CE UL
UL File No.	E335179
Enclosure rating	IP65 / IP66K / IP67
Operating temperature	
Flexible use	-25 °C +80 °C
Stationary position	-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

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Dimensional drawing (Dimensions in mm (inch))



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