

# YF2A14-100UJ2M2A14

Other connectors and cables

**PLUG 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	•	
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 diameter         4.5 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Stationary position         > 10 x cable diameter           So valie diameter         > 10 x cable diameter           Stationary position         > 10 x cable diameter           Stationary position         > 10 x cable diameter           Stationary position         > 25 x cable diameter           Stationary position         > 10 x cable diameter           Stationary position         > 20 x cable diameter           Stationary position         > 20 x cable diameter           Sto object diameter         > 20 x cable diameter	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         Flexible use         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Drag chain operation         > 10 x cable diameter           Bending cycles         10,000,000           Nominal voltage, cable         250 v AC           Test voltage, cable         250 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         4 nm/s²           Acceleration         4 nm/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         Flexible use Stationary position Parag chain operation         > 10 x cable diameter           Stationary position Parag chain operation         > 10 x cable diameter           Short Ac         2,500 V AC           Test 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/s²	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           Stationary position Drag chain operation         > 5 x cable diameter           Nominal voltage, cable         10 x cable diameter           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/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         > 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 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 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         250 V AC           Reference voltage         250 V AC           Current loading         4 A           Traversing speed         3 m/s           Travelling distance         10 m/s²	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         250 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/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           Shielding         Unshielded           Bending radius         Flexible use Stationary position Drag chain operation         > 10 x cable diameter           Drag chain operation Drag chain operation Drag chain operation Drag chain operation         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	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 Drag chain operation         > 10 x cable diameter           Drag chain operation D	Cable	10 m, 4-wire, PUR, halogen-free
Cable diameter         4.5 mm           Conductor cross section         0.34 mm²           Shielding         Unshielded           Bending radius         Flexible use Stationary position Prag 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 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         0.34 mm²           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           250 V DC           Rated impulse voltage         2.5 kV           Current loading         4 A           Traversing speed         3 m/s           Travelling distance         10 m/s²	Jacket color	Gray
Shielding Bending radius  Flexible use Stationary position Drag chain operation  Drag chain operation  Nominal voltage, cable  Test voltage, cable  2,500 ∨ AC  250 ∨ AC  250 ∨ DC  Rated impulse voltage  Current loading  Traversing speed  Travelling distance  Acceleration  Local diameter  > 10 x cable diameter  > 10,000,000  > 10,000,000  > 20,000  > 300 ∨ AC  2,500 ∨ AC  250 ∨ AC  250 ∨ AC  250 ∨ BC   Travelling distance  10 m  ≤ 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 V AC  Reference voltage 250 V AC 250 V DC  Rated impulse voltage 2.5 kV  Current loading Traversing speed Travelling distance Acceleration  > 10 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 diameter   10 x cable diameter   10 x cable diameter   10 x cable diameter   10 x cable diameter   10 x cable diameter   10 x cable diameter   1	Conductor cross section	0.34 mm <sup>2</sup>
Flexible use Stationary position Drag chain operation Drag chain operation Drag chain operation  Bending cycles 10,000,000 300 V AC  Test voltage, cable 2,500 V AC  250 V AC 250 V DC  Rated impulse voltage 2.5 kV  Current loading Traversing speed Travelling distance Acceleration  > 10 x cable diameter > 10,000,000 300 V AC 2,500 V AC 2,500 V AC 250 V AC 250 V DC  2.5 kV  4 A  Traversing speed 3 m/s  10 m  < 10 m/s²	Shielding	Unshielded
Stationary position Drag chain operation Drag chain operation  Bending cycles 10,000,000  Nominal voltage, cable 2,500 V AC  Reference voltage 250 V AC 250 V DC  Rated impulse voltage Current loading Traversing speed Travelling distance Acceleration  > 5 x cable diameter > 10 x cable diameter  10,000,000  300 V AC  2,500 V AC  2,500 V AC  250 V AC  250 V DC  Acceleration  > 10 m  > 10 m/s²	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 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  ≤ 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 ∨ AC           Test voltage, cable         2,500 ∨ AC           Reference voltage         250 ∨ AC           250 ∨ DC         250 ∨ 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  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  ≤ 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  4 cceleration  ≤ 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 $\leq$ 10 m/s²		
Travelling distance 10 m  Acceleration ≤ 10 m/s²	Current loading	4 A
Acceleration ≤ 10 m/s²	Traversing speed	
	Travelling distance	
Signal type Sensor/actuator cable	Acceleration	≤ 10 m/s²
	Signal type	Sensor/actuator cable

Torsion force	180°/1m
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
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

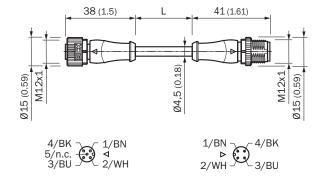
#### Classifications

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

## YF2A14-100UJ2M2A14 | Other connectors and cables

PLUG CONNECTORS AND CABLES

#### Dimensional drawing (Dimensions in mm (inch))



### SICK AT A GLANCE

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