



YF2A14-C50UJ2M2A14

Other connectors and cables

CONNECTORS AND CABLES

SICK
Sensor Intelligence.



Ordering information

| Type | part no. |
|--------------------|----------|
| YF2A14-C50UJ2M2A14 | 2121301 |

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



Detailed technical data

Technical specifications

| | | | | | | | |
|--------------------------------|---|--------------|-----------------------|---------------------|----------------------|----------------------|-----------------------|
| Connection type head A | Male connector, M12, 4-pin, straight, A-coded | | | | | | |
| Connection type head B | Female connector, M12, 4-pin, straight | | | | | | |
| 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 | 0.5 m, 4-wire, PUR, halogen-free | | | | | | |
| Jacket material | PUR, halogen-free | | | | | | |
| Jacket color | Gray | | | | | | |
| Cable diameter | 4.5 mm | | | | | | |
| Conductor cross section | 0.34 mm ² | | | | | | |
| Shielding | Unshielded | | | | | | |
| Bending radius | <table> <tr> <td>Flexible use</td> <td>> 10 x cable diameter</td> </tr> <tr> <td>Stationary position</td> <td>> 5 x cable diameter</td> </tr> <tr> <td>Drag chain operation</td> <td>> 10 x cable diameter</td> </tr> </table> | Flexible use | > 10 x cable diameter | Stationary position | > 5 x cable diameter | Drag chain operation | > 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 | 10,000,000 | | | | | | |
| Nominal voltage, cable | 300 V AC | | | | | | |
| Test voltage, cable | 2,500 V AC | | | | | | |
| Reference voltage | <table> <tr> <td>250 V AC</td> </tr> <tr> <td>250 V DC</td> </tr> </table> | 250 V AC | 250 V DC | | | | |
| 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/s ² | | | | | | |
| 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 |
| 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 MΩ |
| Overshoot 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 |

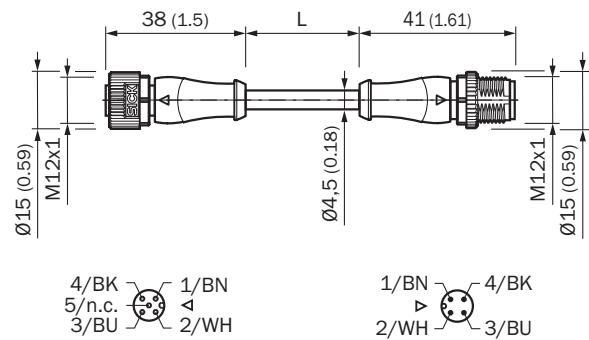
Certificates

| | |
|---|---|
| EU declaration of conformity | ✓ |
| Moroccan declaration of conformity | ✓ |
| China RoHS | ✓ |
| cULus certificate | ✓ |

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



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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.

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For us, that is "Sensor Intelligence."

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