



# YF2A2B-100UD3XLEA

Sensor-actuator cables

CONNECTORS AND CABLES

**SICK**  
Sensor Intelligence.



### Ordering information

| Type              | part no. |
|-------------------|----------|
| YF2A2B-100UD3XLEA | 6042736  |

Other models and accessories → [www.sick.com/Sensor-actuator\\_cables](http://www.sick.com/Sensor-actuator_cables)



### Detailed technical data

#### Technical specifications

|                                |   |
|--------------------------------|---|
| <b>Connection type head A</b>  | Female connector, M12, 12-pin, straight, A-coded  |
| <b>Connection type head B</b>  | Flying leads  |
| <b>Connection type</b>         | Flying leads  |
| <b>Connector material</b>      | TPU   |
| <b>Locking nut material</b>    | Zinc die-cast, nickel-plated  |
| <b>Cable</b>                   | 10 m, 12-wire, PUR, halogen-free  |
| <b>Jacket material</b>         | PUR, halogen-free   |
| <b>Jacket color</b>            | Black   |
| <b>Cable diameter</b>          | 8.5 mm  |
| <b>Conductor cross section</b> | 0.14 mm <sup>2</sup>  |
| <b>Shielding</b>               | Shielded  |
| <b>Bending radius</b>          |   |
| Flexible use                   | > 10 x cable diameter   |
| Stationary position            | > 5 x cable diameter  |
| <b>Bending cycles</b>          | 2,000,000   |
| <b>Reference voltage</b>       |   |
|                                | ≤ 30 V  |
| <b>Current loading</b>         | 1.5 A   |
| <b>Traversing speed</b>        | 3 m/s   |
| <b>Travelling distance</b>     | 10 m  |
| <b>Acceleration</b>            | ≤ 10 m/s <sup>2</sup>   |
| <b>Signal type</b>             | Sensor/actuator cable   |
| <b>Special feature</b>         | Twisted pair  |
| <b>Application</b>             | Uncontaminated zones<br>Zones with oils and lubricants<br>Robot<br>Drag chain operation |
| <b>Enclosure rating</b>        | IP65/ IP67  |
| <b>Operating temperature</b>   |   |

|                     |                   |
|---------------------|-------------------|
| Flexible use        | -5 °C ... +80 °C  |
| Stationary position | -30 °C ... +80 °C |
| Head                | -25 °C ... +90 °C |

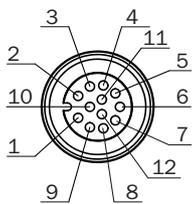
### Certificates

|                                     |   |
|-------------------------------------|---|
| <b>EU declaration of conformity</b> | ✓ |
| <b>UK declaration of conformity</b> | ✓ |
| <b>China RoHS</b>                   | ✓ |

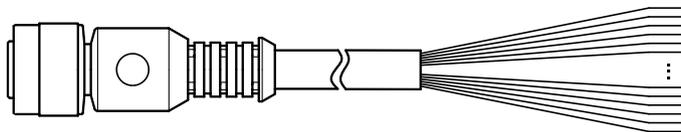
### Classifications

|                       |          |
|-----------------------|----------|
| <b>ECLASS 5.0</b>     | 19030312 |
| <b>ECLASS 5.1.4</b>   | 19030312 |
| <b>ECLASS 6.0</b>     | 27060304 |
| <b>ECLASS 6.2</b>     | 27060304 |
| <b>ECLASS 7.0</b>     | 27060304 |
| <b>ECLASS 8.0</b>     | 27060304 |
| <b>ECLASS 8.1</b>     | 27060304 |
| <b>ECLASS 9.0</b>     | 27060304 |
| <b>ECLASS 10.0</b>    | 27060304 |
| <b>ECLASS 11.0</b>    | 27060304 |
| <b>ECLASS 12.0</b>    | 27060304 |
| <b>ETIM 5.0</b>       | EC000830 |
| <b>ETIM 6.0</b>       | EC000830 |
| <b>ETIM 7.0</b>       | EC003249 |
| <b>ETIM 8.0</b>       | EC003249 |
| <b>UNSPSC 16.0901</b> | 26121604 |

### PIN assignment



- ① Brown
- ② blue
- ③ White
- ④ Green
- ⑤ Pink
- ⑥ Yellow
- ⑦ Black
- ⑧ Gray
- ⑨ Red
- ⑩ Violet
- ⑪ Gray-pink
- ⑫ Red-blue



## 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:

Contacts and other locations –[www.sick.com](http://www.sick.com)