

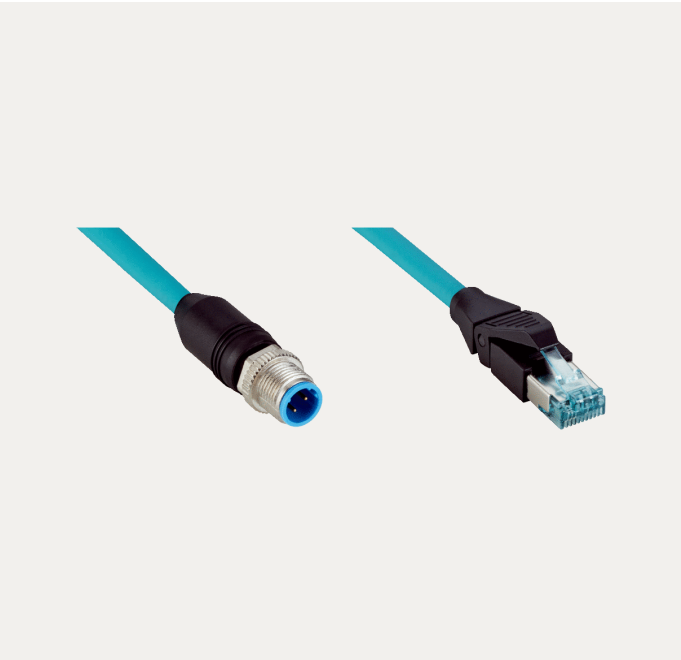


DATA SHEET

# YM2D24-030EF4MRJA4

Industrial Ethernet cables and fieldbus cables  
Connectors and cables

**SICK** Sensor Intelligence



CONNECTORS AND CABLES

YM2D24-030EF4MRJA4

ORDERING INFORMATION

| Type               | part no. |
|--------------------|----------|
| YM2D24-030EF4MRJA4 | 2112846  |

Further device versions and accessories at [www.sick.com/Industrial\\_Ethernet\\_cables\\_and\\_fieldbus\\_cables](http://www.sick.com/Industrial_Ethernet_cables_and_fieldbus_cables)



DETAILED TECHNICAL DATA

TECHNICAL SPECIFICATIONS

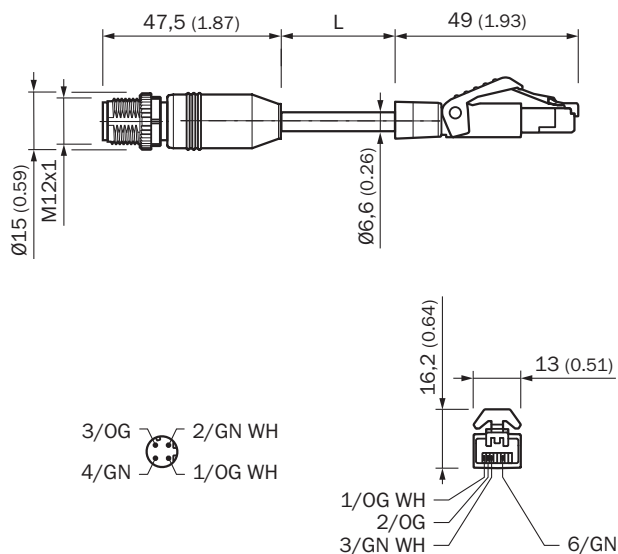
|                        |                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Connection type head A | Male connector, M12, 4-pin, straight, D-coded                                                                                |
| Connection type head B | Male connector, RJ45, 4-pin, straight                                                                                        |
| Locking plug connector | Screw-on connection (M12), snap-in locking (RJ45)                                                                            |
| Connector material     | TPU                                                                                                                          |
| Connector color        | Black                                                                                                                        |
| Locking nut material   | Zinc die-cast, nickel-plated                                                                                                 |
| Tightening torque      | 0.6 Nm                                                                                                                       |
| Width across flats     | 13                                                                                                                           |
| Cable                  | 3 m, 4-wire, TPE                                                                                                             |
| Jacket material        | TPE                                                                                                                          |
| Jacket color           | Turquoise                                                                                                                    |
| Cable diameter         | 6.6 mm                                                                                                                       |
| Shielding              | Shielded                                                                                                                     |
| Bending radius         | Flexible use > 10 x cable diameter<br>Stationary position > 8 x cable diameter<br>Drag chain operation > 10 x cable diameter |
| Bending cycles         | 1,000,000                                                                                                                    |
| Nominal voltage, cable | 600 V AC                                                                                                                     |
| Test voltage, cable    | 1,500 V AC                                                                                                                   |
| Reference voltage      | 48 V AC<br>60 V DC                                                                                                           |
| Rated impulse voltage  | 1 kV                                                                                                                         |
| Current loading        | 1.5 A                                                                                                                        |
| Traversing speed       | 1.2 m/s                                                                                                                      |
| Travelling distance    | 0.6 m                                                                                                                        |
| Acceleration           | ≤ 2.4 m/s²                                                                                                                   |
| Signal type            | Ethernet, EtherNet/IP™                                                                                                       |

|                                |                                                                 |
|--------------------------------|-----------------------------------------------------------------|
| Transmission characteristics   | CAT5e                                                           |
| Data transmission rate         | ≤ 0.1 Gbit/s                                                    |
| Torsion force                  | 270° / 1 m                                                      |
| Torsion cycles                 | 3,000,000                                                       |
| Cycles per minutes             | 60                                                              |
| Application                    | Drag chain operation<br>Robot<br>Zones with oils and lubricants |
| Enclosure rating               | IP67 (M12), IP20 (RJ45)                                         |
| Operating temperature          | Stationary position -40 °C ... +80 °C<br>Head -25 °C ... +85 °C |
| Contamination rating           | 3                                                               |
| Insulation resistance          | > 100 MΩ                                                        |
| Overvoltage category           | III                                                             |
| Specific insulation resistance | < 30 mΩ                                                         |

## CERTIFICATES

|                                                     |   |
|-----------------------------------------------------|---|
| EU declaration of conformity                        | ✓ |
| UK declaration of conformity                        | ✓ |
| China RoHS                                          | ✓ |
| China Compulsory Product Certification (CCC) exempt | ✓ |
| cULus certificate                                   | ✓ |

## DIMENSIONAL DRAWING



Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at [www.sick.com/2112846](http://www.sick.com/2112846)



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WALDKIRCH  
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# SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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