Product data sheet

# YM2D24-040EF4MRJA4

## Industrial Ethernet cables and fieldbus cables

SICK
Sensor Intelligence.

## Ordering information

| Type | Part no. |
|---|---|
| YM2D24-040EF4MRJA4 | 2117685 |

Other models and accessories ➜ www.sick.com/Industrial_Ethernet_cables_and_fieldbus_cables

## Detailed technical data

### Technical specifications

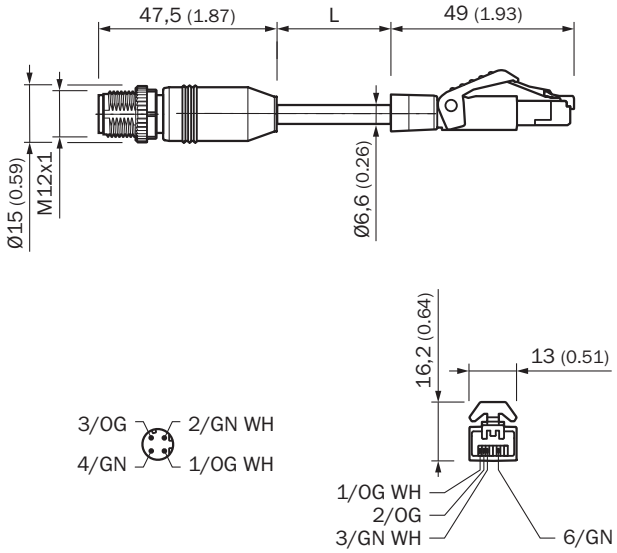
| | |
|---|---|
| **Connection type head A** | Male connector, M12, 4-pin, straight, D-coded |
| **Connection type head B** | Male connector, RJ45, 4-pin, straight |
| **Locking plug connector** | Screw-on connection (M12), snap-in locking (RJ45) |
| **Connector material** | TPU |
| **Connector color** | Black |
| **Locking nut material** | Zinc die-cast, nickel-plated |
| **Tightening torque** | 0.6 Nm |
| **Width across flats** | 13 |
| **Cable** | 4 m, 4-wire, TPE |
| **Jacket material** | TPE |
| **Jacket color** | Turquoise |
| **Cable diameter** | 6.6 mm |
| **Conductor cross section** | 0.227 mm² |
| **Shielding** | Shielded |
| **Bending radius** | |
| Flexible use | > 10 x cable diameter |
| Stationary position | > 8 x cable diameter |
| 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 |
| | 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** | Zones with oils and lubricants<br>Robot<br>Drag chain operation |
| **Authorizations** | CE<br>UL |
| **UL File No.** | E513908 |
| **Enclosure rating** | IP67 (M12), IP20 (RJ45) |
| **Operating temperature** | |
| Stationary position | –40 °C ... +80 °C |
| Head | –25 °C ... +85 °C |
| **Contamination rating** | 3 |
| **Insulation resistance** | > 100 MΩ |
| **Overvoltage category** | III |
| **Specific insulation resistance** | < 30 mΩ |

## 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 (Dimensions in mm (inch))



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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.

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:

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