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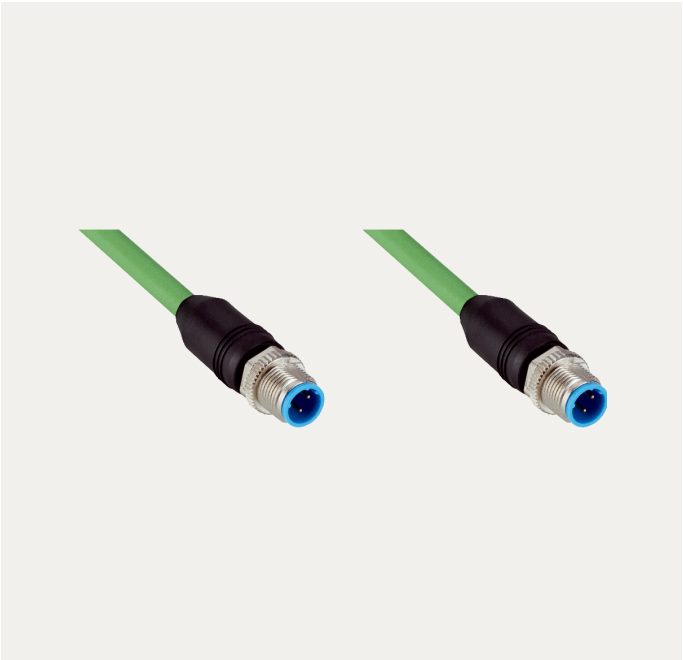


DATA SHEET

# YM2D24-020PN1M2D24

Industrial Ethernet cables and fieldbus cables
Connectors and cables

SICK Sensor Intelligence



## CONNECTORS AND CABLES

# YM2D24-020PN1M2D24

### ORDERING INFORMATION

| Type | part no. |
|---|---|
| YM2D24-020PN1M2D24 | 2106159 |

Further device versions and accessories at www.sick.com/Industrial_Ethernet_cables_and_fieldbus_cables

## DETAILED TECHNICAL DATA

### TECHNICAL SPECIFICATIONS

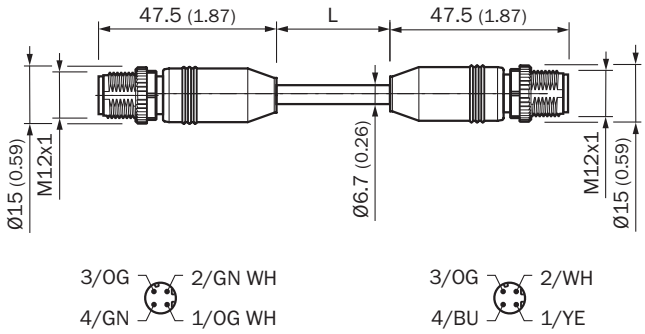
| | |
|---|---|
| Connection type head A | Male connector, M12, 4-pin, straight, D-coded |
| Connection type head B | Male connector, M12, 4-pin, straight, D-coded |
| Locking plug connector | Screw connection |
| Connector material | TPU |
| Connector color | Black |
| Locking nut material | Zinc die-cast, nickel-plated |
| Tightening torque | 0.6 Nm |
| Width across flats | 13 |
| Cable | 2 m, 4-wire, PUR, halogen-free |
| Jacket material | PUR, halogen-free |
| Jacket color | Green |
| Cable diameter | 6.7 mm |
| Conductor cross section | 0.34 mm² |
| Shielding | Shielded |
| Bending radius | |
| Flexible use | > 12 x cable diameter |
| Stationary position | > 5 x cable diameter |
| Drag chain operation | > 12 x cable diameter |
| Bending cycles | 3,000,000 |
| Nominal voltage, cable | 300 V AC |
| Test voltage, cable | 2,000 V AC |
| Reference voltage | 48 V AC<br>60 V DC |
| Rated impulse voltage | 1.5 kV |
| Current loading | 4 A |
| Traversing speed | 3.3 m/s |
| Travelling distance | 5 m |
| Acceleration | ≤ 2 m/s² |

| | |
|---|---|
| Signal type | Ethernet, PROFINET |
| Transmission characteristics | CAT5e |
| Data transmission rate | ≤ 0.1 Gbit/s |
| Application | Drag chain operation<br>Zones with oils and lubricants |
| Enclosure rating | IP65 / IP66K / IP67 |
| Operating temperature | |
| Flexible use | –30 °C ... +70 °C |
| Stationary position | –40 °C ... +80 °C |
| Drag chain operation | –30 °C ... +70 °C |
| Head | –25 °C ... +85 °C |
| Contamination rating | 3 |
| Insulation resistance | > 100 MΩ |
| Overvoltage category | III |
| Specific insulation resistance | < 30 mΩ |
| Thermal resistance, piping | Flame retardant acc. to UL 1581 Section 1090, Section 1100 (FT2), IEC 60332-1-2 Std. |

## CERTIFICATES

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

## DIMENSIONAL DRAWING




Dimensions in mm (inch)

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/2106159

SICK AG
WALDKIRCH
GERMANY
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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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