# YM2D24-C50PN1MRJA4

Industrial Ethernet cables and fieldbus cables

**SICK**
Sensor Intelligence.

# YM2D24-C50PN1MRJA4 | Industrial Ethernet cables and fieldbus cables

## Ordering information

| Type | Part no. |
|---|---|
| YM2D24-C50PN1MRJA4 | 2121276 |

Other models and accessories ➜ www.sick.com/Industrial_Ethernet_cables_and_fieldbus_cables
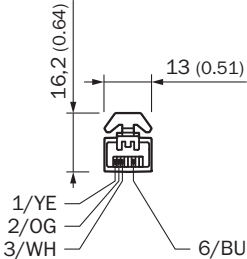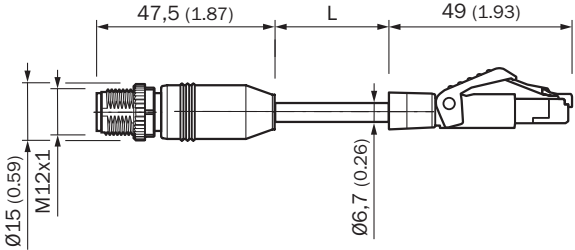
## Detailed technical data

### 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** | 0.5 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 |
| **Reference voltage** | ≤ 60 V DC |
| **Rated impulse voltage** | 1 kV |
| **Current loading** | 1.5 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 |

| | |
|---|---|
| | Zones with oils and lubricants |
| **Authorizations** | CE<br>UL |
| **Enclosure rating** | IP67 (M12), IP20 (RJ45) |
| **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 according to UL 1581 Section 1060 (FT1), Section 1061 (cable flame), Section 1080 (VW-1) / IEC 60332-1-2 |

## 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))

47,5 (1.87)   L   49 (1.93)

Ø15 (0.59)   M12x1   Ø6,7 (0.26)

16,2 (0.64)   13 (0.51)

3/OG   2/WH
4/BU   1/YE

1/YE
2/OG
3/WH
6/BU

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