

YM2D24-300EF4M2D24

Industrial Ethernet cables and fieldbus cables



YM2D24-300EF4M2D24 | Industrial Ethernet cables and fieldbus cables



Ordering information

| Туре | Part no. |
|--------------------|----------|
| YM2D24-300EF4M2D24 | 2112841 |

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



Detailed technical data

Technical specifications

| 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 30 m, 4-wire, TPE Jacket color Turquoise Cable diameter 6.6 mm Shielded Shielded Bending radius Flexible use Stationary position Pag chain operation Prag cha | ' | |
|--|------------------------------|---|
| 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 30 m, 4-wire, TPE Jacket color Turquoise Cable diameter 6.6 mm Shielding Shielded Bending radius Flexible use > 10 x cable diameter Stationary position > 2 x cable diameter Stationary position > 10 x cable diameter Bending cycles 4 x cable diameter Sonov AC 4 x cable diameter Bending cycles 4 x cable diameter Bending cycles 4 x C Nominal voltage, cable 45 v AC 60 v DC 48 v AC 60 v DC | Connection type head A | Male connector, M12, 4-pin, straight, D-coded |
| Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 30 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 Stationary position > 8 x cable diameter Drag chain operation > 10 x cable diameter Nominal voltage, cable 600 V AC Test voltage, cable 1,500 V AC Reference voltage 48 V AC 60 V DC 48 V AC 60 V DC 48 V AC 60 V DC 48 V AC 7 Taversing speed 1,2 m/s Traversing speed 1,2 m/s Travelling distance 0,6 m Acceleration ≤ 2,4 m/s² Signal type Ethernet, EtherNet/IP™ | Connection type head B | Male connector, M12, 4-pin, straight, D-coded |
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| Tightening torque 0.6 Nm Width across flats 13 Cable 30 m, 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Shielding Shielded Bending radius Flexible use Stationary position > 8 x cable diameter Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 4,000,000 Nominal voltage, cable 600 V AC Test voltage, cable 1,500 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 1.2 m/s Traveling distance 0.6 m Acceleration ≤ 2.4 m/s² Signal type Ethernet, EtherNet/IPIM | Connector color | Black |
| Width across flats 13 Cable 30 m, 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 8 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 1.5 kV Current loading 4 A Traversing speed 1.2 m/s Travelling distance 0.6 m Acceleration ≤ 2.4 m/s² Signal type Ethernet, EtherNet/IP™ | Locking nut material | Zinc die-cast, nickel-plated |
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| Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 48 ∨ AC 60 ∨ DC Rated impulse voltage Current loading Traversing speed Travelling distance Acceleration Shielded > 10 x cable diameter | Jacket color | Turquoise |
| Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable 48 ∨ AC 60 ∨ DC Rated impulse voltage Current loading Traversing speed Travelling distance Acceleration Signal type > 10 x cable diameter > 10 x cable diameter > 8 x cable diameter > 8 x cable diameter > 10 x cable diameter > 8 x cable diameter > 8 x cable diameter > 8 x cable diameter > 10 x cable diameter > 8 x cable diameter > 10 x cable diameter > 8 x cable diameter > 10 x cable diameter > 8 x cable diameter > 10 x cable diameter > 8 x cable diameter > 10 x cable diameter > 8 x cable diameter > 8 x cable diameter > 8 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter 10 x cable diameter 10 x | Cable diameter | 6.6 mm |
| Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable 48 ∨ AC 60 ∨ DC Rated impulse voltage Current loading Traversing speed Travelling distance Acceleration Signal type > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter | Shielding | Shielded |
| Stationary position Drag chain operation Page chain operation Bending cycles 1,000,000 Nominal voltage, cable 1,500 V AC Test voltage, cable 48 V AC 60 V DC Rated impulse voltage 1,5 kV Current loading Traversing speed Travelling distance Acceleration Signal type > 8 x cable diameter > 10 x cable diameter > 1,000,000 600 V AC 4 A 1,500 V AC 1,500 V AC 48 V AC 60 V DC 8 x cable diameter > 1,000,000 600 V AC 4 A 4 A 5 x cable diameter 1,000,000 600 V AC 4 A V AC 60 V DC 8 x cable diameter 1,000,000 600 V AC 4 A V AC 60 V DC 8 x cable diameter 1,000,000 600 V AC 4 A V AC 60 V DC 8 x cable diameter 1,000,000 600 V AC 4 A V AC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V AC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V AC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V AC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V AC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V AC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V AC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V DC 600 V DC 8 x cable diameter 1,000,000 600 V AC 600 V AC 600 V DC 600 V | Bending radius | |
| Drag chain operation Bending cycles 1,000,000 Nominal voltage, cable Test voltage, cable 1,500 ∨ AC Reference voltage 48 ∨ AC 60 ∨ DC Rated impulse voltage 1.5 kV Current loading Traversing speed Travelling distance Acceleration Signal type > 10 x cable diameter 1,000,000 600 ∨ AC 1,500 ∨ AC 48 ∨ AC 60 ∨ DC 48 ∨ AC 60 ∨ DC 1.2 m/s 5 2.4 m/s² Ethernet, EtherNet/IP™ | Flexible use | > 10 x cable diameter |
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| Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 1.2 m/s Travelling distance 0.6 m Acceleration ≤ 2.4 m/s² Signal type Ethernet, EtherNet/IP™ | | 48 V AC |
| Current loading 4 A Traversing speed 1.2 m/s Travelling distance 0.6 m Acceleration ≤ 2.4 m/s² Signal type Ethernet, EtherNet/IP™ | | 60 V DC |
| Traversing speed 1.2 m/s Travelling distance 0.6 m Acceleration ≤ 2.4 m/s² Signal type Ethernet, EtherNet/IP™ | Rated impulse voltage | 1.5 kV |
| Travelling distance 0.6 m Acceleration ≤ 2.4 m/s² Signal type Ethernet, EtherNet/IP™ | Current loading | 4 A |
| Acceleration ≤ 2.4 m/s² Signal type Ethernet, EtherNet/IP™ | Traversing speed | |
| Signal type Ethernet, EtherNet/IP™ | Travelling distance | |
| | Acceleration | ≤ 2.4 m/s² |
| Transmission characteristics CAT5e | Signal type | Ethernet, EtherNet/IP™ |
| | Transmission characteristics | CAT5e |

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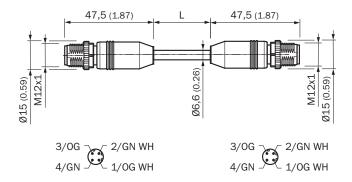
| Data transmission rate | ≤ 0.1 Gbit/s |
|--------------------------------|---|
| Torsion force | 270°/1m |
| Torsion cycles | 3,000,000 |
| Cycles per minutes | 60 |
| Application | Drag chain operation Robot Zones with oils and lubricants |
| Authorizations | CE UL |
| Enclosure rating | IP65 / IP66K / IP67 |
| 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 | 27061801 |
|----------------|----------|
| ECLASS 5.1.4 | 27061801 |
| ECLASS 6.0 | 27061801 |
| ECLASS 6.2 | 27061801 |
| ECLASS 7.0 | 27061801 |
| ECLASS 8.0 | 27061801 |
| ECLASS 8.1 | 27061801 |
| ECLASS 9.0 | 27061801 |
| ECLASS 10.0 | 27061801 |
| ECLASS 11.0 | 27061801 |
| ECLASS 12.0 | 27061801 |
| ETIM 5.0 | EC002599 |
| ETIM 6.0 | EC002599 |
| ETIM 7.0 | EC002599 |
| ETIM 8.0 | EC002599 |
| UNSPSC 16.0901 | 26121604 |

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Dimensional drawing (Dimensions in mm (inch))



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For us, that is "Sensor Intelligence."

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