



# YM2D24-010EF4M2D24

Industrial Ethernet cables and fieldbus cables

CONNECTORS AND CABLES

**SICK**  
Sensor Intelligence.



Ordering information

Type	part no.
YM2D24-010EF4M2D24	2112839

Other models and accessories → [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, 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	1 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
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™
Transmission characteristics	CAT5e

<b>Data transmission rate</b>	≤ 0.1 Gbit/s
<b>Torsion force</b>	270° / 1 m
<b>Torsion cycles</b>	3,000,000
<b>Cycles per minutes</b>	60
<b>Application</b>	Drag chain operation Robot Zones with oils and lubricants
<b>Enclosure rating</b>	IP65 / IP66K / IP67
<b>Operating temperature</b>	
Stationary position	-40 °C ... +80 °C
Head	-25 °C ... +85 °C
<b>Contamination rating</b>	3
<b>Insulation resistance</b>	> 100 MΩ
<b>Overvoltage category</b>	III
<b>Specific insulation resistance</b>	< 30 mΩ

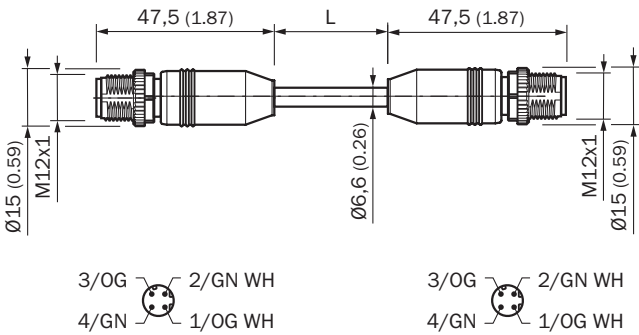
## Certificates

<b>EU declaration of conformity</b>	✓
<b>UK declaration of conformity</b>	✓
<b>China RoHS</b>	✓
<b>cULus certificate</b>	✓

## Classifications

<b>ECLASS 5.0</b>	27061801
<b>ECLASS 5.1.4</b>	27061801
<b>ECLASS 6.0</b>	27061801
<b>ECLASS 6.2</b>	27061801
<b>ECLASS 7.0</b>	27061801
<b>ECLASS 8.0</b>	27061801
<b>ECLASS 8.1</b>	27061801
<b>ECLASS 9.0</b>	27061801
<b>ECLASS 10.0</b>	27061801
<b>ECLASS 11.0</b>	27061801
<b>ECLASS 12.0</b>	27061801
<b>ETIM 5.0</b>	EC002599
<b>ETIM 6.0</b>	EC002599
<b>ETIM 7.0</b>	EC002599
<b>ETIM 8.0</b>	EC002599
<b>UNSPSC 16.0901</b>	26121604

Dimensional drawing



## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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:

Contacts and other locations –[www.sick.com](http://www.sick.com)