



YM2D24-020EF4M2D24

Industrial Ethernet cables and fieldbus cables

CONNECTORS AND CABLES

SICK
Sensor Intelligence.



Ordering information

Type	part no.
YM2D24-020EF4M2D24	2129304

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, 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, 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

Data transmission rate	≤ 0.1 Gbit/s
Torsion force	270° / 1 m
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

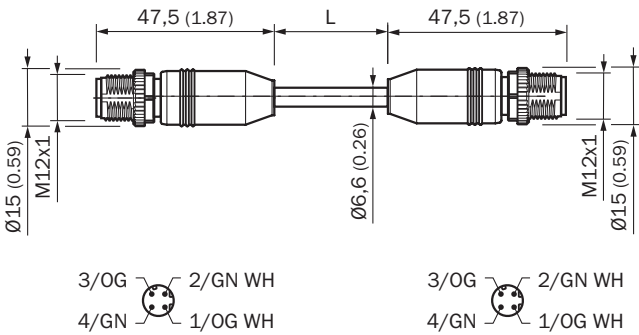
Classifications

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

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓

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