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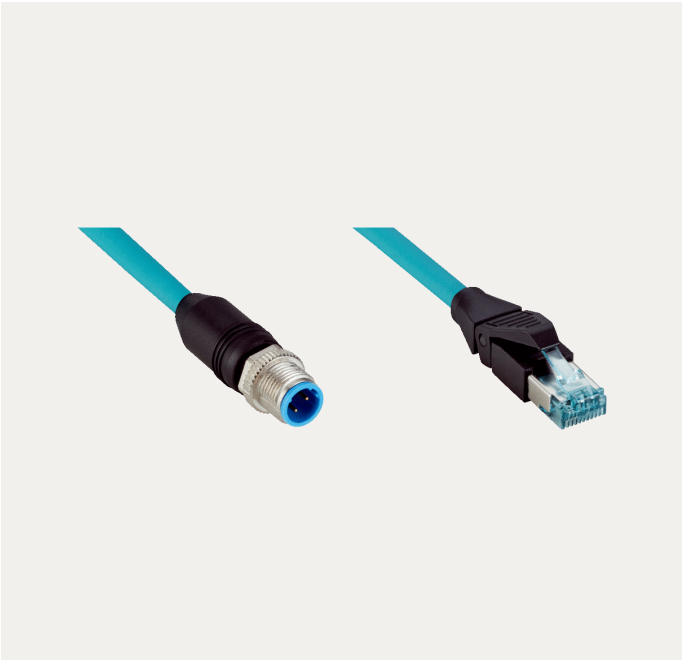


DATA SHEET

YM2D24-100EF4MRJA4

Industrial Ethernet cables and fieldbus cables
Connectors and cables

SICK Sensor Intelligence



CONNECTORS AND CABLES

YM2D24-100EF4MRJA4

ORDERING INFORMATION

Type	part no.
YM2D24-100EF4MRJA4	2129302

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

DETAILED TECHNICAL DATA

TECHNICAL SPECIFICATIONS

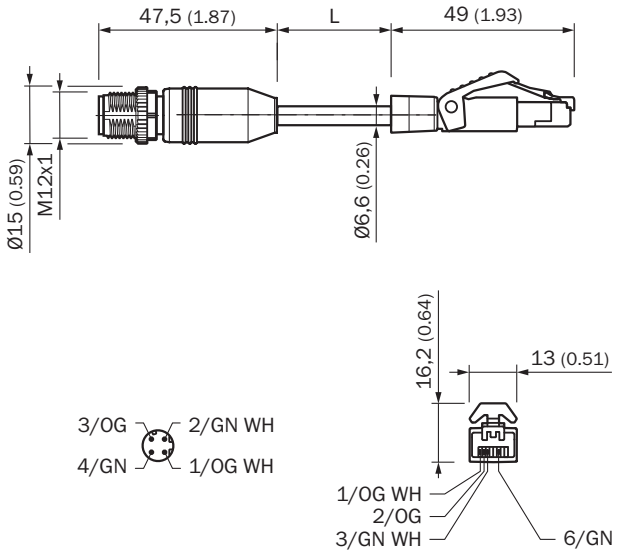
Connection type head A	Male connector, M12, 4-pin, straight, D-coded
Connection type head B	Male connector, RJ45, 4-pin, straight
Locking plug connector	Screw-on connection (M12), snap-in locking (RJ45)
Connector material	TPU
Connector color	Black
Locking nut material	Zinc die-cast, nickel-plated
Tightening torque	0.6 Nm
Width across flats	13
Cable	10 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 kV
Current loading	1.5 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
Enclosure rating	IP67 (M12), IP20 (RJ45)
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

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/2129302

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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