

YM2D24-040EF4MRJA4

Industrial Ethernet cables and fieldbus cables



YM2D24-040EF4MRJA4 | Industrial Ethernet cables and fieldbus cables



Ordering information

Туре	Part no.
YM2D24-040EF4MRJA4	2117685

Other models and accessories -> www.sick.com/Industrial_Ethernet_cables_and_fieldbus_cables



Detailed technical data

Technical specifications

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 Ucking nut material Zinc die-cast, nickel-plated Ucking nut material 13 Cable 4 m, 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielded Shielded Bending radius Flexible use Stationary position > 8 x cable diameter S	•	
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 4 m, 4-wire, TPE Jacket anterial TPE Jacket color Turquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielding Shielded Bending radius Flexible use > 10 x cable diameter S x cable diameter > 8 x cable diameter S x cable diameter > 10 x cable diameter S x cable diameter > 10 x cable diameter S x cable diameter > 10 x cable diameter S x cable diameter > 10 x cable diameter S x voltage, cable 48 V AC 60 V DC 40 V AC Rated impulse voltage 1 kV Curren	Connection type head A	Male connector, M12, 4-pin, straight, D-coded
Connector color TPU Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 4 m. 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielding Shielded Bending radius Flexible use > 10 x cable diameter Stationary position > 8 x cable diameter Parag chain operation > 10 x cable diameter Bending cycles ≤ 1,000,000 Nominal voltage, cable ≤ 1,000,000 Nominal voltage, cable 48 ∨ AC 60 ∨ DC 48 ∨ AC 60 ∨ DC C Rated impulse voltage 1 kV Current loading ≤ 1.5 A Travesing speed 1.2 m/s Travelling distance 0.6 m Acceleration ≤ 2.4 m/s²	Connection type head B	Male connector, RJ45, 4-pin, straight
Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 4 m, 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielded Shielded Bending radius Flexible use Stationary position > 10 x cable diameter Stationary position > 8 x cable diameter Prog chain operation > 10 x cable diameter Shoulding 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 Traveling distance 0,6 m Acceleration ≤ 2,4 m/s²	Locking plug connector	Screw-on connection (M12), snap-in locking (RJ45)
Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 4 m, 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielding Shielded Bending radius > 10 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 > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter * 10 x cable diameter > 10 x cable diameter * 10 x cable diameter > 10 x cable diameter * 10 x cable diameter > 10 x cable diameter * 10 x cable diameter > 10 x cable diameter * 10 x cable diameter > 10 x cable dia	Connector material	TPU
Tightening torque 0.6 Nm Width across flats 13 Cable 4 m, 4-wire, TPE Jacket material TPE Jacket color 1 urquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation Drag chain operation Drag chain operation Drag chain operation Online Voltage, cable ≤ 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 Traverling speed 1.2 m/s Travelling distance 0.6 m Acceleration ≤ 2.4 m/s²	Connector color	Black
Width across flats 13 Cable 4 m, 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielding Shielded Bending radius Flexible use Stationary position > 8 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	Locking nut material	Zinc die-cast, nickel-plated
Cable 4 m, 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielding Shielded Bending radius > 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 ∨ AC Test voltage, cable 1,500 ∨ AC Reference voltage 48 ∨ AC 60 ∨ 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	Tightening torque	0.6 Nm
Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation Drag chain operation Drag chain operation 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	Width across flats	13
Jacket color Turquoise Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielding Shielded Bending radius > 10 x cable diameter Stationary position Drag chain operation > 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	Cable	4 m, 4-wire, TPE
Cable diameter 6.6 mm Conductor cross section 0.227 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Nominal voltage, cable ≤ 1,000,000 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	Jacket material	TPE
Conductor cross section 0.227 mm² Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation > 10 x cable diameter Bending cycles ≤ 1,000,000 Nominal voltage, cable 600 ∨ AC Test voltage, cable 1,500 ∨ AC Reference voltage 48 ∨ AC 60 ∨ DC 60 ∨ 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	Jacket color	Turquoise
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Shielded Stationary position Drag chain operation Drag chain operation Services Service	Cable diameter	6.6 mm
Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 48 ∨ AC 60 ∨ DC Rated impulse voltage 1.5 A Traversing speed Travelling distance Acceleration Flexible use > 10 x cable diameter > 10 x cable diameter	Conductor cross section	0.227 mm ²
Flexible use Stationary position Drag chain operation Drag chain operation Bending cycles Nominal voltage, cable 1,500 V AC Test voltage, cable 48 V AC 60 V DC Rated impulse voltage 48 V AC 60 V DC Rated impulse voltage 1,50 V AC 1,50 V AC 48 V AC 60 V DC Rated impulse voltage 1,50 V AC Current loading Traversing speed 1,2 m/s Travelling distance Acceleration > 10 x cable diameter	Shielding	Shielded
Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage Reference voltage 48 ∨ AC 60 ∨ DC Rated impulse voltage 1 kV Current loading Traversing speed Travelling distance Acceleration > 8 x cable diameter > 10 x cable diameter	Bending radius	
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	Flexible use	> 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	Stationary position	> 8 x cable diameter
Nominal voltage, cable 600 ∨ AC Test voltage, cable 1,500 ∨ AC Reference voltage 48 ∨ AC 60 ∨ DC 60 ∨ 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	Drag chain operation	> 10 x cable diameter
Test voltage, cable Reference voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading Traversing speed 1.2 m/s Travelling distance 0.6 m ≤ 2.4 m/s²	Bending cycles	≤ 1,000,000
Reference voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading $\leq 1.5 \text{ A}$ Traversing speed 1.2 m/s Travelling distance 0.6 m Acceleration $\leq 2.4 \text{ m/s}^2$	Nominal voltage, cable	600 V AC
48 V AC 60 V DC Rated impulse voltage 1 kV Current loading $\leq 1.5 \text{ A}$ Traversing speed 1.2 m/s Travelling distance 0.6 m Acceleration $\leq 2.4 \text{ m/s}^2$	Test voltage, cable	1,500 V AC
Rated impulse voltage1 kVCurrent loading≤ 1.5 ATraversing speed1.2 m/sTravelling distance0.6 mAcceleration≤ 2.4 m/s²	Reference voltage	
Rated impulse voltage1 kVCurrent loading≤ 1.5 ATraversing speed1.2 m/sTravelling distance0.6 mAcceleration≤ 2.4 m/s²		48 V AC
Current loading \leq 1.5 ATraversing speed1.2 m/sTravelling distance0.6 mAcceleration \leq 2.4 m/s²		60 V DC
Traversing speed 1.2 m/s Travelling distance 0.6 m Acceleration $\leq 2.4 \text{ m/s}^2$		
Travelling distance 0.6 m Acceleration ≤ 2.4 m/s²	Current loading	
Acceleration ≤ 2.4 m/s ²	Traversing speed	·
	Travelling distance	
Signal type Ethernet, EtherNet/IP™	Acceleration	≤ 2.4 m/s²
	Signal type	Ethernet, EtherNet/IP™

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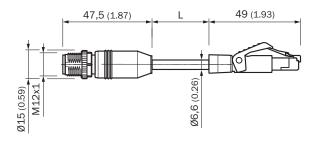
Transmission characteristics	CAT5e
Data transmission rate	≤ 0.1 Gbit/s
Torsion force	270°/1m
Torsion cycles	3,000,000
Cycles per minutes	60
Application	Zones with oils and lubricants Robot Drag chain operation
Authorizations	CE UL
UL File No.	E513908
Enclosure rating	IP67 (M12), IP20 (RJ45)
Operating 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

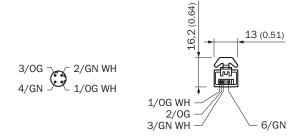
Classifications

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

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Dimensional drawing (Dimensions in mm (inch))





SICK AT A GLANCE

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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.

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For us, that is "Sensor Intelligence."

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