

YM2D24-010EF4M2D24

Industrial Ethernet cables and fieldbus cables

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YM2D24-010EF4M2D24	2112839

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



Detailed technical data

Technical specifications

Accessory group Plug connectors and cables Accessory family Connection cables Connection type head B Male connector, M12, 4-pin, straight, D-coded Connector material TPU Connector material TPU Connector color Black Locking nut material Jin die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 1 m.4-wire, TPE Jacket material TPE Jacket material TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Shielding Shielded Bending radius Flexible use, Stationary position pray pos	•	
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 1 m, 4-wire, TPE Jacket material TPE Jacket material TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Shelding Shelded Bending radius *10 x cable diameter Stationary position *8 x cable diameter Stationary position *8 x cable diameter Status of voltage, cable *10 x cable diameter Stationary position *0 x cable diameter Porag chain operation *10 x cable diameter Status voltage, cable *4 x VAC Goot V DC Rated impulse voltage *4 x VAC Goot V DC Rated impulse voltage *4 x VAC Goot V DC	Accessory group	Plug connectors and cables
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 forque 0.6 Nm Width across flats 13 Cable 1 m, 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Shelding Shelded Bending radius Flexible use Stationary position Porag chain operation > 10 x cable diameter Stationary position Porag chain operation > 10 x cable diameter Stationary position Porag chain operation > 10 x cable diameter Stationary position Porag chain operation > 10 x cable diameter Stationary position Porag chain operation > 10 x cable diameter Stationary position Porag chain operation > 10 x cable diameter Stationary position Porag chain operation > 10 x cable diameter Set voltage, cable 48 x Ac Reference voltage 48 x AC Goov DC<	Accessory family	Connection cables
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 color Turquoise Cable diameter 6.6 mm Shielding Shielded Bending radius > 10 x cable diameter Flexible us prag chain operation > 10 x cable diameter Stationary position > 10 x cable diameter Prag chain operation > 10 x cable diameter Bending cycles 1,000,000 Nominal voltage, cable 1,500 ∨ AC Test voltage, cable 48 ∨ AC Reference voltage 48 ∨ AC Gov DC 60 ∨ DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 1.2 m/s Towelling distance 0.6 m	Connection type head A	Male connector, M12, 4-pin, straight, D-coded
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 Stationary position Drag chain operation 2 10 x cable diameter Stationary position Drag chain operation 3 10 x cable diameter Bending cycles 1,000,000 Nominal voltage, cable 600 V AC Test voltage, cable 4,500 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 4 A Current loading 4 A Traversing speed 1,2 m/s Tavelling distance 0,6 m	Connection type head B	Male connector, M12, 4-pin, straight, D-coded
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 10 x cable diameter Stationary position Drag chain operation 2 x x cable diameter Drag chain operation 2 x x cable diameter Nominal voltage, cable 4000,000 Test voltage, cable 4500 V AC Reference voltage 48 V AC GOV DC Rated impulse voltage 4A Current loading 4 A Taversing speed 1.2 m/s Two liling distance 0.6 m	Locking plug connector	Screw connection
Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 1 m, 4-wire, TPE Cable 1 m, 4-wire, TPE Jacket material TPE Jacket color Turquoise Cable diameter 6.6 mm Shielding Shielded Bending radius *10 x cable diameter Stationary position > 8 x cable diameter Prag chain operation > 10 x cable diameter Drag chain operation > 10 x cable diameter Bending cycles 1,000,000 Nominal voltage, cable 600 V AC Test voltage, cable 48 V AC GoV DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 1.2 m/s Travelling distance 0.6 m	Connector material	TPU
Tightening torque 0.6 Nm Width across flats 13 Cable 1 m, 4-wire, TPE Jacket material TPE Lacket color Turquoise Cable diameter 6.6 mm Shielding Shielded Bending radius *10 x cable diameter Stationary position > 8 x cable diameter Drag chain operation > 10 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 Rated impulse voltage 4 A Current loading 4 A Taversing speed 1,2 m/s Tavelling distance 0,6 m	Connector color	Black
Width across flats 13 Cable 1 m, 4-wire, TPE Jacket material TPE Lacket color Turquoise Cable diameter 6.6 mm Shielding Shielded Bending radius > 10 x cable diameter Stationary position prag chain operation > 8 x cable diameter Drag chain operation prag chain operation prage ch	Locking nut material	Zinc die-cast, nickel-plated
Cable 1 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 > 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 Tavelling distance 0.6 m	Tightening torque	0.6 Nm
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Jacket color Turquoise Cable diameter 6.6 mm Shielding Shielded Bending radius > 10 x cable diameter Stationary position Drag chain operation Drag chain	Cable	1 m, 4-wire, TPE
Cable diameter Shielding Bending radius Flexible use Stationary position Drag chain operation Orag chain operatio	Jacket material	TPE
Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Reference voltage Rated impulse voltage Current loading Traverling distance Shielded > 10 x cable diameter > 8 x cable diameter > 8 x cable diameter > 10 x cable diameter > 10 x cable diameter > 1000,000	Jacket color	Turquoise
Bending radius Flexible use Stationary position Drag chain operation Drag chain Drag chain Drag chain Drag chain operation Drag chain Drag chain Drag chain Drag chain Drag chain Drag chain Drag cha	Cable diameter	6.6 mm
Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage Reference voltage 48 V AC 60 V DC Rated impulse voltage Current loading Traversing speed Travelling distance > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter > 10 x cable diameter 1,000,000 600 V AC 1,500 V AC 48 V AC 60 V DC 1.5 kV 48 V AC 60 V DC 1.5 kV 0.6 m	Shielding	Shielded
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Drag chain operation > 10 x cable diameter 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 1.2 m/s Travelling distance > 10 x cable diameter 1,000,000 600 V AC 48 V AC 60 V DC 1.5 kV 0.6 m	Flexible use	> 10 x cable diameter
Bending cycles1,000,000Nominal voltage, cable600 V ACTest voltage, cable1,500 V ACReference voltage48 V AC 60 V DCRated impulse voltage1.5 kVCurrent loading4 ATraversing speed1.2 m/sTravelling distance0.6 m	Stationary position	> 8 x cable diameter
Nominal voltage, cable Test voltage, cable Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading Traversing speed Travelling distance 600 V AC 1,500	Drag chain operation	> 10 x cable diameter
Test voltage, cable Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading Traversing speed 1.2 m/s Travelling distance 1,500 V AC 48 V AC 60 V DC 1.5 kV 0.6 m	Bending cycles	1,000,000
Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading Traversing speed 1.2 m/s Travelling distance 0.6 m	Nominal voltage, cable	600 V AC
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	Test voltage, cable	1,500 V AC
Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 1.2 m/s Travelling distance 0.6 m	Reference voltage	
Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 1.2 m/s Travelling distance 0.6 m		
Current loading4 ATraversing speed1.2 m/sTravelling distance0.6 m		
Traversing speed 1.2 m/s Travelling distance 0.6 m		
Travelling distance 0.6 m		
Acceleration ≤ 2.4 m/s ²		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°/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
Ambient 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

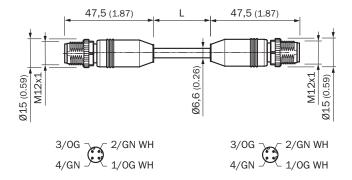
Classifications

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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