

YM2D24-C75PN1MRJA4

Industrial Ethernet cables and fieldbus cables



YM2D24-C75PN1MRJA4 | Industrial Ethernet cables and fieldbus cables



Ordering information

Туре	Part no.
YM2D24-C75PN1MRJA4	2144638

Other models and accessories → www.sick.com/Industrial_Ethernet_cables_and_fieldbus_cables



Detailed technical data

Technical specifications

Maile connection, 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 0.75 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Green Cable diameter 6.7 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position > 12 x cable diameter > 5 x cable diameter > 5 x cable diameter Bending cycles 3,000,000 Reference voltage 48 V AC Go V DC Rated impulse voltage 1 kV Current loading 1.5 A Traversing speed 3.3 m/s Iraversing distance 5 m Acceleration \$ 2 m/s² Signal type Ethernet, PROFINET Transmission characteristics	Connection type head A	Male connector, M12, 4-pin, straight, D-coded
Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 0.75 m, 4-wire, PUR, halogen-free Lacket material PUR, halogen-free Lacket color Green Cable diameter 6.7 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use > 12 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 12 x cable diameter Sending cycles 48 V AC Reference voltage 48 V AC GoV DC AC Current loading 1.5 A Inversing speed 3.3 m/s Inversing distance 5 m Acceleration \$ 2 m/s² Signal type Ethernet, PROFINET Charse CATSe	Connection type head B	Male connector, RJ45, 4-pin, straight
Black Zinc die-cast, nickel-plated Zinc die-cast, nickel	Locking plug connector	Screw-on connection (M12), snap-in locking (RJ45)
Locking nut material Tightening torque 0.6 Nm Width across flats 13 0.75 m, 4-wire, PUR, halogen-free Jacket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation AB V AC 60 V DC Rated impulse voltage 1 kV Current loading Traversing speed Traversing speed Travelling distance ACCELERATION Signal type Transmission characteristics 2 10 Nm 10 A-wire, PUR, halogen-free PUR, halogen-free Green Green 4.8 V AC 60 V DC Rated impulse voltage 1 kV 1.5 A 5 m 4.5 CAT5E	Connector material	TPU
Tightening torque 0.6 Nm Width across flats 13 Cable 0.75 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Green Cable diameter 6.7 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius > 12 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 12 x cable diameter Bending cycles 3,000,000 Reference voltage 48 V AC GoV DC Rated impulse voltage 1 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance 5 m Acceleration \$ 2 m/s² Signal type Ethernet, PROFINET Transmission characteristics CA15e	Connector color	Black
Midth across flats 13 0.75 m, 4-wire, PUR, halogen-free 13 13 13 14 14 15 15 15 15 15 15	Locking nut material	Zinc die-cast, nickel-plated
Cable Jacket material Jacket color Cable diameter Conductor cross section Chielding Bending radius Flexible use Stationary position Drag chain operation Reference voltage Reference voltage Reted impulse voltage Current loading Iraversing speed Traversing speed Travelling distance Acceleration Flexible 4, 4-wire, PUR, halogen-free Green Gre	Tightening torque	0.6 Nm
Acket material Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation As V AC 60 V DC Rated impulse voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading Traversing speed Traversing speed Acceleration Signal type Transmission characteristics PUR, halogen-free Green 6.7 mm 6.3 mm 6.4 mm 6.7 mm 6.2 mm 6.2 mm 6.3 mm 6.4 mm 6.5 mm 6.7 mm 6.7 mm 6.8 mm 6.9 mm 6.0 m	Width across flats	13
Cable diameter Conductor cross section Conductor cross	Cable	0.75 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross section Chielding Chieldi	Jacket material	PUR, halogen-free
Conductor cross section Shielding Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Acceleration Stationary Position Drag chain operation Drag chain operation Drag chain operation Stationary Position 1.5 x cable diameter > 12 x cable	Jacket color	Green
Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Reference voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading Traversing speed Traverling distance Acceleration Signal type Ethernet, PROFINET Transmission characteristics Stationary position > 12 x cable diameter	Cable diameter	6.7 mm
Flexible use Stationary position Drag chain operation Sending cycles 3,000,000 Reference voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance 5 m Acceleration \$\leq 2 \text{ m/s}^2 \text{ m/s}^2 \text{ Ethernet, PROFINET} Transmission characteristics \$\leq 2 \text{ cable diameter} \\ > 12 x cable diameter \\ > 12 x cable	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles Reference voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading Traversing speed Travelling distance Acceleration Signal type Transmission characteristics > 12 x cable diameter > 5 x cable diameter > 12 x cable diameter > 12 x cable diameter	Shielding	Shielded
Stationary position Drag chain operation Sending cycles Reference voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading 1.5 A Traversing speed Acceleration Signal type Ethernet, PROFINET Transmission characteristics > 5 x cable diameter > 12 x cable diameter	Bending radius	
Drag chain operation > 12 x cable diameter Bending cycles 3,000,000 Reference voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance 5 m Acceleration ≤ 2 m/s² Signal type Ethernet, PROFINET Transmission characteristics CAT5e	Flexible use	> 12 x cable diameter
Reference voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance Acceleration \$\leq 2 \text{ m/s}^2\$ Ethernet, PROFINET Transmission characteristics 3,000,000	Stationary position	> 5 x cable diameter
Reference voltage 48 V AC 60 V DC Rated impulse voltage 1 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance Acceleration Signal type Ethernet, PROFINET Transmission characteristics	Drag chain operation	> 12 x cable diameter
48 V AC 60 V DC Rated impulse voltage 1 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance 5 m 48 V AC Ethernet, PROFINET Transmission characteristics 48 V AC 60 V DC 60 V	Bending cycles	3,000,000
60 V DC Rated impulse voltage 1 kV Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance 5 m 4cceleration 5 m/s Ethernet, PROFINET Transmission characteristics CAT5e	Reference voltage	
Rated impulse voltage 1 kV Current loading 1.5 A 3.3 m/s Traversing speed 5 m 4cceleration ≤ 2 m/s² Ethernet, PROFINET Transmission characteristics 1 kV 1.5 A 2.5 A 3.7 C 5 C 5 C 6 C 6 C 7 C 7 C 7 C 7 C 7 C 7		
Current loading 1.5 A Traversing speed 3.3 m/s Travelling distance 5 m Acceleration ≤ 2 m/s² Signal type Ethernet, PROFINET Transmission characteristics CAT5e		
Traversing speed 3.3 m/s Travelling distance 5 m Acceleration ≤ 2 m/s² Signal type Ethernet, PROFINET Transmission characteristics CAT5e		
Travelling distance 5 m Acceleration ≤ 2 m/s² Signal type Ethernet, PROFINET Transmission characteristics CAT5e	Current loading	
Acceleration ≤ 2 m/s² Signal type Ethernet, PROFINET Transmission characteristics CAT5e		
Signal type Ethernet, PROFINET Transmission characteristics CAT5e		
Transmission characteristics CAT5e	Acceleration	
	Signal type	
Data transmission rate ≤ 0.1 Gbit/s	Transmission characteristics	
	Data transmission rate	≤ 0.1 Gbit/s

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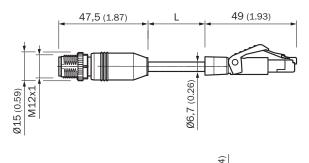
Application	Drag chain operation Zones with oils and lubricants
Authorizations	CE UL
Enclosure rating	IP67 (M12), IP20 (RJ45)
Operating temperature	
Flexible use	-30 °C +70 °C
Stationary position	-40 °C +80 °C
Drag chain operation	-30 °C +70 °C
Head	-25 °C +85 °C
Contamination rating	3
Insulation resistance	> 100 MΩ
Overvoltage category	III
Specific insulation resistance	< 30 mΩ
Thermal resistance, piping	Flame retardant according to UL 1581 Section 1060 (FT1), Section 1061 (cable flame), Section 1080 (VW-1) / IEC 60332-1-2

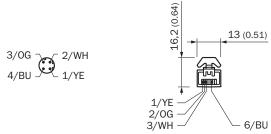
Classifications

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))





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