

YM2D24-020PN1N2D24

Industrial Ethernet cables and fieldbus cables

PLUG CONNECTORS AND CABLES





Ordering information

Туре	Part no.
YM2D24-020PN1N2D24	2106165

Other models and accessories \Rightarrow www.sick.com/Industrial_Ethernet_cables_and_fieldbus_cables



Detailed technical data

Technical specifications

Accessory group Plug connectors and cables Connection type head A Connection type head B Male connector, M12, 4-pin, straight, D-coded Connection type head B Male connector, M12, 4-pin, angled, 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, PUR, halogen free Jacket material PUR, halogen free Jacket anterial 6-7 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius 5 in	•	
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, PUR, halogen-free Jacket material PUR, halogen-free Jacket material PUR, halogen-free Cable diameter 6.7 mm Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position > 12 x cable diameter Stationary position > 12 x cable diameter Drag chain operation > 12 x cable diameter Stationary position 4 8 V AC Good Position <th>Accessory group</th> <th>Plug connectors and cables</th>	Accessory group	Plug connectors and cables
Connection type head B Male connector, M12, 4-pin, angled, 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 12 m, 4-wire, PUR, halogen-free Cable 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Green Conductor cross section 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position > 12 x cable diameter Stationary position > 5 x cable diameter Stationary position > 12 x cable diameter	Accessory family	Connection cables
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, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Green Conductor cross section 0.34 mm² Shielded Shielded Bending radius > 12 x cable diameter Flexible use Drag chain operation Drag c	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 2 m, 4-wire, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Green Cable diameter 0.34 mm² Chonductor cross section 0.34 mm² Shelding > 12 x cable diameter Stationary position > 5 x cable diameter Stationary position > 12 x cable diameter Drag chain operation > 12 x cable diameter Sheding cycles 3.000,000 Nominal voltage, cable 3.000,000 Test voltage, cable 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Tiversing speed 3.3 m/s	Connection type head B	Male connector, M12, 4-pin, angled, D-coded
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, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Green Conductor cross section 0.34 mm² Shielding Shielded Bending radius 5 x cable diameter Stationary position Drag chain operation 5 x cable diameter Drag chain operation 12 x cable diameter Bending cycles 3,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC GoV DC Rated impulse voltage 1.5 kV Current loading 4 A Tiversing speed 3.3 m/s	Locking plug connector	Screw connection
Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 2 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 Flexible use > 5 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 12 x cable diameter Bending cycles 3,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 48 V AC 60 V DC Rated impulse voltage 1,5 kV Current loading 4 A Taversing speed 3,3 m/s	Connector material	TPU
Tightening torque 0.6 Nm Width across flats 13 Cable 2 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 Flexible use > 5 x cable diameter Stationary position > 5 x cable diameter Drag chain operation > 12 x cable diameter Bending cycles 3,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Taversing speed 3.3 m/s	Connector color	Black
Width across flats 13 Cable 2 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 Drag chain operation > 5 x cable diameter Drag chain operation > 12 x cable diameter Bending cycles 3,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Taversing speed 3,3 m/s	Locking nut material	Zinc die-cast, nickel-plated
Cable 2 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 Drag chain operation > 5 x cable diameter Drag chain operation > 12 x cable diameter Nominal voltage, cable 3,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Taversing speed 3.3 m/s	Tightening torque	0.6 Nm
Jacket color Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage Reference voltage Rated impulse voltage Current loading The side of the sid	Width across flats	13
Jacket colorGreenCable diameter6.7 mmConductor cross section0.34 mm²ShieldingShieldedBending radius* 12 x cable diameterPrag chain operation> 5 x cable diameterDrag chain operation> 12 x cable diameterBending cycles3,000,000Nominal voltage, cable300 V ACTest voltage, cable2,000 V ACReference voltage48 V ACGo V DCAct dimpulse voltage1.5 kVCurrent loading4 ATaversing speed3.3 m/s	Cable	2 m, 4-wire, PUR, halogen-free
Cable diameter Conductor cross section Shielding Shielded Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Show AC Test voltage, cable Reference voltage A8 V AC 60 V DC Rated impulse voltage Current loading Traversing speed 6.7 mm 0.34 mm² 5.12 x cable diameter > 5 x cable diameter > 5 x cable diameter > 5 x cable diameter > 12 x cable diameter	Jacket material	PUR, halogen-free
Conductor cross section Shielding Shielding Shielded Flexible use Stationary position Drag chain operation Nominal voltage, cable Reference voltage Rated impulse voltage Current loading Traversing speed Shielded 0.34 mm² Shielded 0.34 mm² Shielded 12 x cable diameter > 5 x cable diameter > 5 x cable diameter > 12 x cable	Jacket color	Green
Shielding Bending radius Flexible use Stationary position Drag chain operation Drag chain operation Sending cycles Nominal voltage, cable Reference voltage 48 V AC 60 V DC Rated impulse voltage Current loading Traversing speed Stationary position > 12 x cable diameter > 5 x cable diameter > 12 x cable diameter	Cable diameter	6.7 mm
Flexible use Stationary position Drag chain operation Drag chain operation 200 V AC Test voltage, cable 48 V AC Reference voltage 60 V DC Rated impulse voltage 60 V DC Traversing speed 50 X 2 x cable diameter 50 X Cable dia	Conductor cross section	0.34 mm ²
Flexible use Stationary position Drag chain operation Bending cycles Nominal voltage, cable Test voltage, cable Reference voltage 48 V AC 60 V DC Rated impulse voltage 4 A Traversing speed > 12 x cable diameter > 5 x cable diameter > 12 x cable diameter	Shielding	Shielded
Stationary position Drag chain operation Pending cycles Nominal voltage, cable Test voltage Reference voltage 48 V AC 60 V DC Rated impulse voltage Current loading Traversing speed > 5 x cable diameter > 12 x cable diameter 3,000,000	Bending radius	
Drag chain operation > 12 x cable diameter 3,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3.3 m/s	Flexible use	> 12 x cable diameter
Bending cycles Nominal voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3,000,000 3,000,000 400 400 400 4	Stationary position	> 5 x cable diameter
Nominal voltage, cable Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 300 V AC 2,000 V AC	Drag chain operation	> 12 x cable diameter
Test voltage, cable Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 2,000 V AC	Bending cycles	3,000,000
Reference voltage 48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3.3 m/s	Nominal voltage, cable	300 V AC
48 V AC 60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3.3 m/s	Test voltage, cable	2,000 V AC
60 V DC Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3.3 m/s	Reference voltage	
Rated impulse voltage 1.5 kV Current loading 4 A Traversing speed 3.3 m/s		48 V AC
Current loading 4 A Traversing speed 3.3 m/s		60 V DC
Traversing speed 3.3 m/s	, ,	
		4 A
Travelling distance 5 m	Traversing speed	3.3 m/s
	Travelling distance	5 m

Acceleration	≤ 2 m/s²
Signal type	Ethernet, PROFINET
Transmission characteristics	CAT5e
Data transmission rate	≤ 0.1 Gbit/s
Application	Drag chain operation Zones with oils and lubricants
Authorizations	CE UL
Enclosure rating	IP65 / IP66K / IP67
Ambient 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 acc. to UL 1581 Section 1090, Section 1100 (FT2), IEC 60332-1-2 Std.

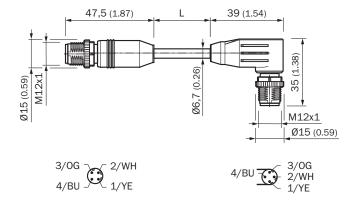
Classifications

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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