



YM2D24-050PN1N2D24

Industrial Ethernet cables and fieldbus cables

CONNECTORS AND CABLES

SICK
Sensor Intelligence.



Ordering information

Type	part no.
YM2D24-050PN1N2D24	2106166

Other models and accessories → 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, 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	5 m, 4-wire, PUR, halogen-free	
Jacket material	PUR, halogen-free	
Jacket color	Green	
Cable diameter	6.7 mm	
Conductor cross section	0.34 mm ²	
Shielding	Shielded	
Bending radius		
	Flexible use	> 12 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	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	
Travelling distance	5 m	
Acceleration	$\leq 2 \text{ m/s}^2$	
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
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.

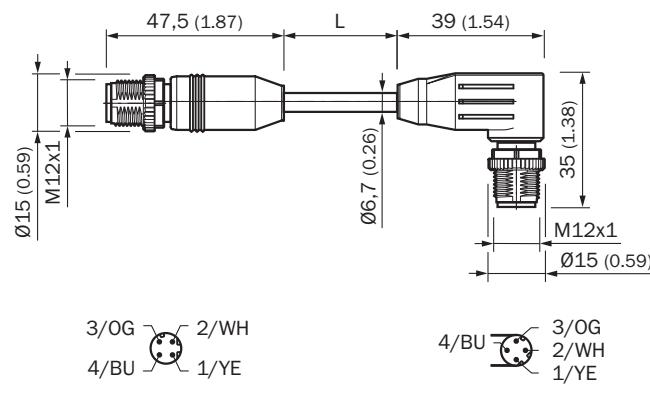
Classifications

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

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
China-RoHS	✓
cULus certificate	✓

Dimensional drawing



Dimensions in mm (inch)

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations www.sick.com