

YN2D24-050PN1MRJA4

Industrial Ethernet cables and fieldbus cables

CONNECTORS AND CABLES

SICK
Sensor Intelligence.



Ordering information

Type	part no.
YN2D24-050PN1MRJA4	2106163

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, angled, D-coded	
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	
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 kV	
Current loading	1.5 A	
Traversing speed	3.3 m/s	
Travelling distance	5 m	
Acceleration	≤ 2 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	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 acc. to UL 1581 Section 1090, Section 1100 (FT2), IEC 60332-1-2 Std.

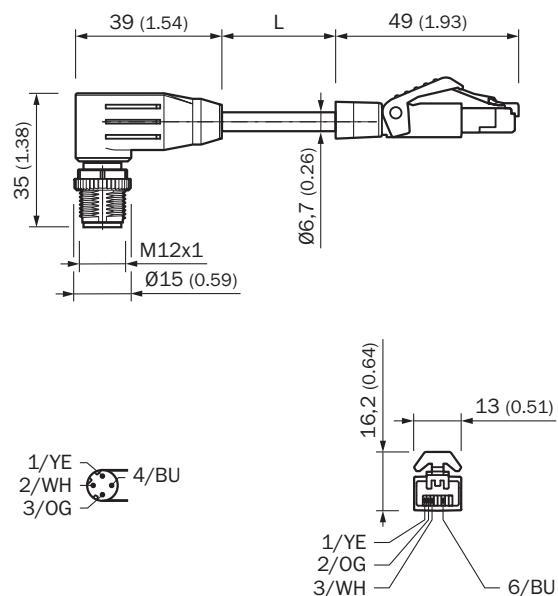
Classifications

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

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:

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