

## YN2D24-100PN1N2D24

Industrial Ethernet cables and fieldbus cables

**CONNECTORS AND CABLES**

**SICK**  
Sensor Intelligence.



### Ordering information

Type	part no.
YN2D24-100PN1N2D24	2106170

Other models and accessories → [www.sick.com/Industrial\\_Ethernet\\_cables\\_and\\_fieldbus\\_cables](http://www.sick.com/Industrial_Ethernet_cables_and_fieldbus_cables)



### Detailed technical data

#### Technical specifications

<b>Connection type head A</b>	Male connector, M12, 4-pin, angled, D-coded
<b>Connection type head B</b>	Male connector, M12, 4-pin, angled, D-coded
<b>Locking plug connector</b>	Screw connection
<b>Connector material</b>	TPU
<b>Connector color</b>	Black
<b>Locking nut material</b>	Zinc die-cast, nickel-plated
<b>Tightening torque</b>	0.6 Nm
<b>Width across flats</b>	13
<b>Cable</b>	10 m, 4-wire, PUR, halogen-free
<b>Jacket material</b>	PUR, halogen-free
<b>Jacket color</b>	Green
<b>Cable diameter</b>	6.7 mm
<b>Conductor cross section</b>	0.34 mm <sup>2</sup>
<b>Shielding</b>	Shielded
<b>Bending radius</b>	
Flexible use	> 12 x cable diameter
Stationary position	> 5 x cable diameter
Drag chain operation	> 12 x cable diameter
<b>Bending cycles</b>	3,000,000
<b>Nominal voltage, cable</b>	300 V AC
<b>Test voltage, cable</b>	2,000 V AC
<b>Reference voltage</b>	
	48 V AC
	60 V DC
<b>Rated impulse voltage</b>	1.5 kV
<b>Current loading</b>	4 A
<b>Traversing speed</b>	3.3 m/s
<b>Travelling distance</b>	5 m
<b>Acceleration</b>	≤ 2 m/s <sup>2</sup>
<b>Signal type</b>	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.

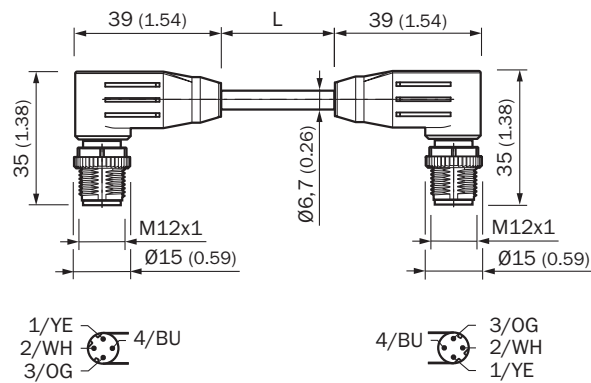
Classifications

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](http://www.sick.com)