

YN2D24-100PN1MRJA4

Industrial Ethernet cables and fieldbus cables

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|--------------------|----------|
| YN2D24-100PN1MRJA4 | 2106164 |

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



Detailed technical data

Technical specifications

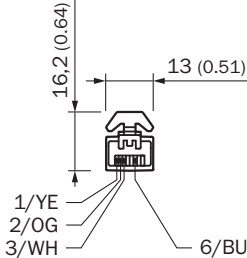
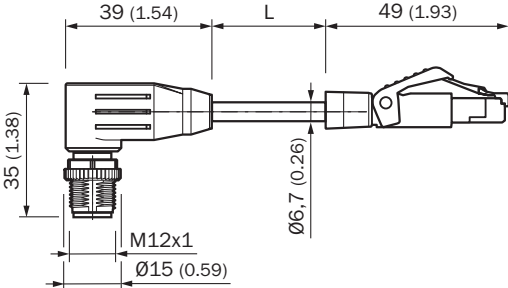
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|--------------------------------|--|--------------|-----------------------|---------------------|----------------------|----------------------|-----------------------|
| Connection type head A | Male connector, M12, 4-pin, angled, D-coded | | | | | | |
| 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 | 10 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 | <table border="0"> <tr> <td>Flexible use</td> <td>> 12 x cable diameter</td> </tr> <tr> <td>Stationary position</td> <td>> 5 x cable diameter</td> </tr> <tr> <td>Drag chain operation</td> <td>> 12 x cable diameter</td> </tr> </table> | Flexible use | > 12 x cable diameter | Stationary position | > 5 x cable diameter | Drag chain operation | > 12 x cable diameter |
| 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 | <table border="0"> <tr> <td>48 V AC</td> </tr> <tr> <td>60 V DC</td> </tr> </table> | 48 V AC | 60 V DC | | | | |
| 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 | <table border="0"> <tr> <td style="padding-left: 20px;">Flexible use</td> <td>-30 °C ... +70 °C</td> </tr> <tr> <td style="padding-left: 20px;">Stationary position</td> <td>-40 °C ... +80 °C</td> </tr> <tr> <td style="padding-left: 20px;">Drag chain operation</td> <td>-30 °C ... +70 °C</td> </tr> <tr> <td style="padding-left: 40px;">Head</td> <td>-25 °C ... +85 °C</td> </tr> </table> | Flexible use | -30 °C ... +70 °C | Stationary position | -40 °C ... +80 °C | Drag chain operation | -30 °C ... +70 °C | Head | -25 °C ... +85 °C |
| Flexible use | -30 °C ... +70 °C | | | | | | | | |
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| 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 |

Dimensional drawing (Dimensions in mm (inch))



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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.

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For us, that is “Sensor Intelligence.”

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