

YG2A15-030C1BN2A15

Industrial Ethernet cables and fieldbus cables

PLUG CONNECTORS AND CABLES

SICKSensor Intelligence.



Illustration may differ

Ordering information

| Туре | Part no. |
|--------------------|----------|
| YG2A15-030C1BN2A15 | 2112756 |

Other models and accessories -> www.sick.com/Industrial_Ethernet_cables_and_fieldbus_cables



Detailed technical data

Technical specifications

| Accessory group Plug connectors and cables Connection type head A Cennection cables Connection type head B Male connector, M12, 5-pin, angled Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 3 m, 5-wire Jacket color Violet Cable diameter 6.9 mm Conductor cross section 2 x 0.34 mm² + 2 x 0.25 mm² + 1 x 0.34 mm² Shielding Shielded Bending radius Flexible use stationary position > 10 x cable diameter Stationary position > x 0 x cable diameter Stationary position > x 0 x cable diameter Bending cycles 300 ∨ AC Test voitage, cable 2,000,000 Nominal voitage, cable 2,000 ∨ AC Reference voitage 48 ∨ AC 60 ∨ DC Traversing speed 5 m Traversing speed 5 m Acceleration 5 m Ac | reemmean opeemeaneme | |
|---|------------------------------|--|
| Connection type head A Female connector, M12, 5-pin, angled Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 3 m, 5-wire Jacket color Violet Cable diameter 6.9 mm Conductor cross section 2 x 0.34 mm² +2 x 0.25 mm² +1 x 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position > 10 x cable diameter Sending cycles ≤ 1,000,000 Nominal voltage, cable 2,000 ∨ AC Reference voltage 48 ∨ AC 60 ∨ DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note Acoded | Accessory group | Plug connectors and cables |
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| Connector material TPU Connector color Black Locking nut material Zinc die-cast, nickel-plated Tightening torque 0.6 Nm Width across flats 13 Cable 3 m, 5-wire Jacket color Violet Cable dlameter 6.9 mm Conductor cross section 2 x 0.34 mm² +2 x 0.25 mm² +1 x 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Flexible use Stationary position > 10 x cable diameter 6 x cable diameter < 6 x cable diameter Bending cycles ≤ 1,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Connection type head A | Female connector, M12, 5-pin, angled |
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| Tightening torque 0.6 Nm Width across flats 13 Cable 3 m, 5-wire Jacket color Violet Cable diameter 6.9 mm Conductor cross section 2 x 0.34 mm² +2 x 0.25 mm² +1 x 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Flexible use Stationary position > 10 x cable diameter > 6 x cable diameter > 6 x cable diameter Bending cycles ≤ 1,000,000 Nominal voltage, cable 300 v AC Test voltage, cable 2,000 v AC Reference voltage 48 v AC 60 v DC 60 v DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note Accoded | Connector color | Black |
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| Cable diameter 6.9 mm Conductor cross section 2 x 0.34 mm² +2 x 0.25 mm² +1 x 0.34 mm² Shielding Shielded Bending radius Flexible use Stationary position Flexible use Stationary position > 6 x cable diameter Stationary position > 6 x cable diameter Bending cycles ≤ 1,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC 60 V DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Cable | 3 m, 5-wire |
| Conductor cross section 2 x 0.34 mm² +2 x 0.25 mm² +1 x 0.34 mm² Shielding Shielded Bending radius > 10 x cable diameter Stationary position > 6 x cable diameter Bending cycles ≤ 1,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Jacket color | Violet |
| Shielding Shielded Bending radius > 10 x cable diameter Stationary position > 6 x cable diameter Bending cycles ≤ 1,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Cable diameter | 6.9 mm |
| Bending radius Flexible use Stationary position Bending cycles Stationary position Flexible use Stationary position Flexible use Stationary position Flexible use Stationary position For x cable diameter 6 x cable diameter 6 x cable diameter 6 x cable diameter 5 x cable diameter 2 x x x x x x x x x x x x x x x x x x | Conductor cross section | 2 x 0.34 mm ² +2 x 0.25 mm ² +1 x 0.34 mm ² |
| Flexible use Stationary position > 6 x cable diameter < 6 x cable diame | Shielding | Shielded |
| Stationary position > 6 x cable diameter Bending cycles ≤ 1,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note | Bending radius | |
| Bending cycles ≤ 1,000,000 Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC 60 V DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Flexible use | > 10 x cable diameter |
| Nominal voltage, cable 300 V AC Test voltage, cable 2,000 V AC Reference voltage 48 V AC 60 V DC 60 V DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Stationary position | > 6 x cable diameter |
| Test voltage, cable Reference voltage 48 V AC 60 V DC Traversing speed 5 m/s Travelling distance Acceleration ≤ 3 m/s² Signal type Transmission characteristics CANopen, DeviceNet™ Note | Bending cycles | ≤ 1,000,000 |
| Reference voltage 48 V AC 60 V DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Transmission characteristics CANopen, DeviceNet™ Note | Nominal voltage, cable | 300 V AC |
| 48 V AC 60 V DC Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Test voltage, cable | 2,000 V AC |
| Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Reference voltage | |
| Traversing speed 5 m/s Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | | 48 V AC |
| Travelling distance 5 m Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | | 60 V DC |
| Acceleration ≤ 3 m/s² Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Traversing speed | 5 m/s |
| Signal type Fieldbus, DeviceNet™ Transmission characteristics CANopen, DeviceNet™ Note A-coded | Travelling distance | 5 m |
| Transmission characteristics CANopen, DeviceNet™ Note A-coded | Acceleration | ≤ 3 m/s² |
| Note A-coded | Signal type | Fieldbus, DeviceNet™ |
| | Transmission characteristics | CANopen, DeviceNet™ |
| Authorizations UL | Note | A-coded |
| | | III |

| | CE |
|--------------------------------|--|
| UL File No. | E335179 |
| Enclosure rating | IP65 / IP66 / IP67 |
| Specialty | Flame-resistant, self-extinguishing |
| Ambient operating temperature | |
| Flexible use | +30 °C +70 °C |
| Stationary position | -40 °C +80 °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 |

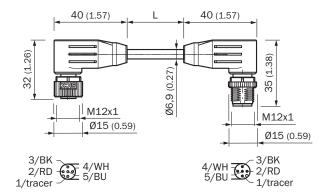
Classifications

| 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 |
| ECLASS 12.0 ETIM 5.0 ETIM 6.0 ETIM 7.0 ETIM 8.0 | 27060304 EC000830 EC0008249 EC0003249 |

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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.

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For us, that is "Sensor Intelligence."

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