

YN2X18-100EG1MRJA8

Industrial Ethernet cables and fieldbus cables

PLUG CONNECTORS AND CABLES

SICKSensor Intelligence.





Ordering information

Туре	Part no.
YN2X18-100EG1MRJA8	2094785

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

Detailed technical data

Technical specifications

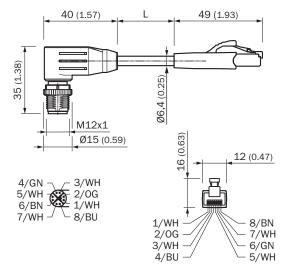
Accessory group Accessory family Connection to the head A Connection type head B Accessory family Accessory family Connector Connector type head B Ale connector, RJ45, 8-pin, argied, X-coded Connector type head B Ale connector, RJ45, 8-pin, atraight Cocking plug connector Screw-on connection (M12), snap-in locking (RJ45) Connector material TPU Connector color Black Locking nut material CuZn, nickel-plated brass Tightening torque 0.6 km Width across flats 13 Cable 10 m, 8-wire, AWG26, PUR, halogen-free Jacket material Jacket material Jacket color Green 6.4 mm Conductor cross section 0,14 mm² Shielding Shielded Bending radius Flexible use Stationary position × 8 x cable diameter Rated impulse voltage 1 kV Current loading 0.5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CATEA Authorizations CE UL UL File No. E513908 Enclosure rating Ambient operating temperature Stationary position -40 °C +80 °C -25 °C +85 °C Contamination rating 3	·	
Connection type head A Male connector, M12, 8-pin, angled, X-coded Male connector, RJ45, 8-pin, straight Screw-on connection (M12), snap-in locking (RJ45) Connector material TPU Connector material CuZn, nickel-plated brass Usking nut material CuZn, nickel-plated brass 13 Cable 10 m, 8-wire, AWG26, PUR, halogen-free Jacket material Jacket color Cable diameter Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Rated impulse voltage Current loading 0,5 A Signal type Ethernett, Gigabit Ethernet Transmission characteristics CAT6A Data transmission rate Authorizations CE UL LI File No. Enclosure rating Ambient operatting temperature Stationary position Head Male connector, R14, 8-pin, angled, X-coded Male connector, R145, 8-pin, straight Aspin, straight Authorizations, straight Authorizations, angled, X-coded Authorizations Male connector, R145, 8-pin, straight Authorizations Male connector, R145, 8-pin, straight Authorizations, straight Authorizations Male connector, R145, 8-pin, straight Authorizations, straight Male connection (M12), snap-in locking (R145) Authorizations Authorizations	Accessory group	Plug connectors and cables
Connection type head B Locking plug connector Screw-on connection (M12), snap-in locking (R145) Connector material TPU Connector color Locking nut material Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, AWG26, PUR, halogen-free Jacket material Jacket color Green 6.4 mm Conductor cross section 0,14 mm² Shielding Bending radius Flexible use Stationary position Rated impulse voltage 1 kV Current loading Signal type Transmission characteristics CATGA Authorizations UL File No. E513908 Enclosure rating Ambient operating temperature Stationary position Head -40 °C+85 °C Width across Ridts Authorizations TPU Black Curnent connector, R145, 8-pin, straight Screw-on connection (M12), snap-in locking (R145) Curnent (M12), snap-in locking (R145) Curnent operating temperature Station (M12), snap-in locking (R145) Curnent (M12), snap-in locking (R145) Curnent operating temperature Station (M12), snap-in locking (R145) Curnent operating temperature Station (M12), snap-in locking (R145) Curnent operating temperature Station (M12), snap-in locking (R145) Curnent operating temperature Station (M12), snap-in locking (R145) Curnent operating temperature Station (M12), snap-in locking (R145) Curnent operating temperature Station (M12), snap-in locking (R145) Curnent operating temperature Station (M12), snap-in locking (R145) Curnent operating temperature Station (M12), snap-in locking (R145) Curnent o	Accessory family	Connection cables
Locking plug connector Screw-on connection (M12), snap-in locking (RJ45) Connector material TPU Connector color Black Locking nut material CuZn, nickel-plated brass Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, AWG26, PUR, halogen-free Jacket material PUR, halogen-free Gable diameter 6.4 mm Conductor cross section 0.14 mm² Shielding Shielded Bending radius Flexible use Flexible use > 10 x cable diameter Stationary position 1 kV Current loading 0.5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CAT6A Data transmission rate ≤ 10 Gbit/s Authorizations CE UL UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Au° C +80 ° C Head -40 ° C +85 ° C	Connection type head A	Male connector, M12, 8-pin, angled, X-coded
Connector material TPU Connector color Black Locking nut material CuZn, nickel-plated brass Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, AWG26, PUR, halogen-free Jacket color Green Cable diameter 6.4 mm Conductor cross section 0.14 mm² Shielding Shielded Bending radius Flexible use stationary position > 8 x cable diameter Stationary position 2.8 x cable diameter Rated impulse voltage 1 kV Current loading 0.5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CATGA Data transmission rate \$ 10 Gbit/s Authorizations CE UL UL UL File No. E51:3908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature -40 °C +80 °C Head -25 °C +85 °C	Connection type head B	Male connector, RJ45, 8-pin, straight
Connector color Locking nut material CuZn, nickel-plated brass Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, AWG26, PUR, halogen-free Jacket material PUR, halogen-free Jacket color Green Cable diameter 6.4 mm Conductor cross section 0,14 mm² Shielding Shielded Bending radius Flexible use Stationary position Rated impulse voltage 1 kV Current loading 0.5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CAT6A Authorizations CE UL UL File No. E513908 Enclosure rating Ambient operating temperature Stationary position Head Over C +80 °C Head Head Authorized Control C	Locking plug connector	Screw-on connection (M12), snap-in locking (RJ45)
Locking nut material Tightening torque 0.6 Nm Width across flats 13 Cable 10 m, 8-wire, AWG26, PUR, halogen-free Jacket material PUR, halogen-free PUR, halogen-free Green 6.4 mm Conductor cross section 0,14 mm² Shielding Bending radius Flexible use Stationary position Rated impulse voltage 1 kV Current loading 5 lexible weethernet, Gigabit Ethernet Transmission characteristics CAT6A Authorizations CE 10 Gbit/s Authorizations Energy Bending results Flexible weethernet Flexible weethernet Cate of the material Cuzn, nickel-plated brass 13 10 m, 8-wire, AWG26, PUR, halogen-free Green 6.4 mm 0,14 mm² Shielden Stationary position > 8 x cable diameter > 8 x cable	Connector material	TPU
Tightening torque Width across flats 13 Cable 10 m, 8-wire, AWG26, PUR, halogen-free Jacket material Jacket color Cable diameter 6.4 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Rated impulse voltage Current loading Signal type Ethernet, Gigabit Ethernet Transmission characteristics Data transmission rate Authorizations CE UL UL File No. E513908 Enclosure rating Amblent operating temperature Stationary position -40 °C +80 °C Head Head Log Warner 10 m, 8-wire, AWG26, PUR, halogen-free 10 m, 9-wire, AWG26, PUR, halogen-free 10	Connector color	Black
Width across flats Cable 10 m, 8-wire, AWG26, PUR, halogen-free Jacket material PUR, halogen-free Green Cable diameter 6.4 mm Conductor cross section Shielding Bending radius Flexible use Stationary position Rated impulse voltage Current loading Signal type Ethernet, Gigabit Ethernet Transmission characteristics Data transmission rate Authorizations CE UL UL File No. E513908 Enclosure rating Ambient operating temperature Stationary position -40 °C +80 °C Head Head 10 mm 8-wire, AWG26, PUR, halogen-free 10 m, 9-wire, AWG26, PUR, halogen-free 10 m, 10	Locking nut material	CuZn, nickel-plated brass
Cable Jacket material Jacket color Green Cable diameter Conductor cross section Shielding Bending radius Flexible use Stationary position Rated impulse voltage Current loading Signal type Transmission characteristics Data transmission rate Authorizations CE UL LIFIE No. Enclosure rating Ambient operating temperature Stationary position 10 m, 8-wire, AWG26, PUR, halogen-free Shalogen-free PUR, halogen-free Shalogen-free PUR, halogen-free Shalogen-free PUR, halogen-free PUR PUR halogen-free PUR PUR PUR PUR PUR PUR PUR P	Tightening torque	0.6 Nm
Jacket material Jacket color Green 6.4 mm Onductor cross section Shielding Bending radius Flexible use Stationary position Rated impulse voltage Current loading Signal type Transmission characteristics Data transmission rate Authorizations CE UL UL File No. Enclosure rating Ambient operating temperature Stationary position Head PUR, halogen-free Green 6.4 mm 6.4 mm 6.2 mm 6.3 mm 6.4 mm 6.4 mm 6.4 mm 6.4 mm 6.5 x cable diameter > 8 x cable diameter	Width across flats	13
Jacket color Cable diameter Conductor cross section O,14 mm² Shielding Bending radius Flexible use Stationary position Rated impulse voltage Current loading Signal type Transmission characteristics Data transmission rate Authorizations UL File No. Enclosure rating Ambient operating temperature Stationary position Head Green 6.4 mm 6.4	Cable	10 m, 8-wire, AWG26, PUR, halogen-free
Cable diameter Conductor cross section 0,14 mm² Shielding Shielded Bending radius Flexible use Stationary position Rated impulse voltage 1 kV Current loading 0,5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CAT6A Data transmission rate 4 10 Gbit/s Authorizations CE UL UL File No. E513908 Enclosure rating Ambient operating temperature Stationary position Head 6.4 mm 0,14 mm² Shielded Flexible use > 10 x cable diameter > 8 x cable diameter	Jacket material	PUR, halogen-free
Conductor cross section Shielding Bending radius Flexible use Stationary position Rated impulse voltage 1 kV Current loading Signal type Ethernet, Gigabit Ethernet Transmission characteristics CAT6A Data transmission rate Authorizations CE UL UL File No. E513908 Enclosure rating Ambient operating temperature Stationary position Head No. 14 mm² > 10 x cable diameter > 8 x cable diameter	Jacket color	Green
Shielding Shielded Bending radius > 10 x cable diameter Stationary position > 8 x cable diameter Rated impulse voltage 1 kV Current loading 0.5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CATGA Data transmission rate ≤ 10 Gbit/s Authorizations CE UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature -40 °C +80 °C Head -25 °C +85 °C	Cable diameter	6.4 mm
Bending radius Flexible use Stationary position Rated impulse voltage Current loading 0.5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CAT6A Data transmission rate 4 10 Gbit/s Authorizations CE UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Stationary position Head Head -40 °C +80 °C -25 °C +85 °C	Conductor cross section	0,14 mm ²
Flexible use Stationary position > 8 x cable diameter > 8 x cable diamet	Shielding	Shielded
Stationary position Rated impulse voltage 1 kV Current loading 0.5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CAT6A Data transmission rate 4 10 Gbit/s CE UL UL File No. Ethernet CAT6A CE UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Stationary position Head Head -40 ° C +80 ° C -25 ° C +85 ° C	Bending radius	
Rated impulse voltage 1 kV Current loading 0.5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CAT6A Data transmission rate ≤ 10 Gbit/s Authorizations CE UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Stationary position Head -40 °C +80 °C -25 °C +85 °C	Flexible use	> 10 x cable diameter
Current loading 0.5 A Signal type Ethernet, Gigabit Ethernet Transmission characteristics CAT6A Data transmission rate ≤ 10 Gbit/s Authorizations CE UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Stationary position -40 °C +80 °C -25 °C +85 °C	Stationary position	> 8 x cable diameter
Signal type Ethernet, Gigabit Ethernet Transmission characteristics CATGA Data transmission rate ≤ 10 Gbit/s Authorizations CE UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Stationary position Head -40 °C +80 °C -25 °C +85 °C	Rated impulse voltage	1 kV
Transmission characteristics Data transmission rate ≤ 10 Gbit/s Authorizations CE UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Stationary position Head -40 °C +80 °C -25 °C +85 °C	Current loading	0.5 A
Data transmission rate ≤ 10 Gbit/s Authorizations CE UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature -40 °C +80 °C Head -25 °C +85 °C	Signal type	Ethernet, Gigabit Ethernet
Authorizations CE UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Stationary position -40 °C +80 °C -25 °C +85 °C	Transmission characteristics	CAT6A
UL UL File No. E513908 Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Stationary position -40 °C +80 °C -25 °C +85 °C	Data transmission rate	≤ 10 Gbit/s
Enclosure rating IP65/ IP67 (M12), IP20 (RJ45) Ambient operating temperature Stationary position -40 °C +80 °C Head -25 °C +85 °C	Authorizations	
Ambient operating temperature Stationary position -40 °C +80 °C Head -25 °C +85 °C	UL File No.	E513908
Stationary position -40 °C +80 °C Head -25 °C +85 °C	Enclosure rating	IP65/ IP67 (M12), IP20 (RJ45)
Head -25 °C +85 °C	Ambient operating temperature	
	Stationary position	-40 °C +80 °C
Contamination rating 3	Head	-25 °C +85 °C
	Contamination rating	3

Insulation resistance	≥ 100 MΩ
Overvoltage category	III
Specific insulation resistance	≤ 30 mΩ

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))



- ① White-orange
- ② Orange
- 3 White-green
- 4 Green
- ⑤ White-brown
- 6 Brown
- White/blue
- 8 Blue

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