

# YM2X18-030EG1M2X18

Industrial Ethernet cables and fieldbus cables





### Ordering information

Туре	Part no.
YM2X18-030EG1M2X18	2124545

Other models and accessories  $\rightarrow$  www.sick.com/Industrial\_Ethernet\_cables\_and\_fieldbus\_cables

#### Detailed technical data

### Technical specifications

Male connector, M12, 8-pin, straight, X-coded	Tooming a pooming trong	
Locking plug connector     Screw connection       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. 8 wire, 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     8 x cable diameter       Reference voltage     ≤ 60 V DC       Reterence voltage     ≤ 60 V DC       Rated impulse voltage     1.5 kV       Current loading     0.5 A       Signal type     Gigabit Ethernet       Transmission characteristics     CATGA       Data transmission rate     < 10 Gbit/s	Connection type head A	Male connector, M12, 8-pin, straight, X-coded
Connector material Connector color Cocking nut material Conductor coss flats Cocket color Coc	Connection type head B	Male connector, M12, 8-pin, straight, X-coded
Connector color  Locking nut material  Tightening torque  Width across flats  Cable  3 m, 8-wire, PUR, halogen-free  Locket material  Backet color  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use  Stationary position  Reference voltage  Current loading  Singal type  Tiransmission characteristics  Cate	Locking plug connector	Screw connection
Zinc die-cast, nickel-plated	Connector material	TPU
Tightening torque  Width across flats  13  3 m, 8-wire, PUR, halogen-free  Jacket material  Jacket material  Jacket color  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Reference voltage  Scale diameter  Conductor across section  Stationary position  Reference voltage  Scale diameter  Stationary position  Reference voltage  Scale diameter	Connector color	Black
Width across flats Cable 3 m, 8-wire, PUR, halogen-free PuR, halogen-free PuR, halogen-free Cable diameter Conductor cross section Chielding Chiel	Locking nut material	Zinc die-cast, nickel-plated
Acket material  Jacket material  Jacket color  Green  Cable diameter  Conductor cross section  Shielding  Bending radius  Flexible use Stationary position  Reference voltage  Signal type  Gigabit Ethernet  Transmission characteristics  CatfeA  Data transmission rate  Authorizations  CE UL  Stationary position  Stationary position  CE UL  Stationary position  Stationary position  Authorizations  Stationary position  Stationary position  Authorizations  Stationary position  Stationary position  Authorizations  Stationary position  Authorizations  Stationary position  Stationary position  Authorizations  Authorizations  Authorizations  Stationary position  Authorizations  Authorizatio	Tightening torque	0.6 Nm
Acket material  Jacket color  Green  Green  Conductor cross section  O,14 mm²  Shielding  Bending radius  Flexible use Stationary position  Reference voltage  Stationary position  Rated impulse voltage  Current loading  Signal type  Gigabit Ethernet  Transmission characteristics  Data transmission rate  Authorizations  CE UL  LI File No.  Estationary position  Stationary position  PUR, halogen-free  Green  6.4 mm  O,14 mm²  Shielded  Shielded  Shielded  Stationary position  Stationary position  OF C +80 °C  Stationary position  Green  O,14 mm²  Shielded  Shielded  Shielded  Stationary position  O,14 mm²  O,14 mm²  Stationary position  O,14 mm²  O,14 mm²  Stationary position  O,14 mm²  O,15 mm²  O,14 mm²  O,14 mm²  O,14 mm²  O,14 mm²  O,14 mm²  O,14	Width across flats	13
Cable diameter Conductor cross section Conductor cross	Cable	3 m, 8-wire, PUR, halogen-free
Cable diameter Conductor cross section Chielding Chield	Jacket material	PUR, halogen-free
Conductor cross section Shielding Shielding Shelding She	Jacket color	Green
Shielding Bending radius  Flexible use Stationary position  Reference voltage  \$ 60 V DC  Rated impulse voltage  \$ 60 V DC  Rated impulse voltage  \$ 1.5 kV  Current loading  \$ 0.5 A  Signal type  Gigabit Ethernet  CAT6A  Data transmission characteristics  CAT6A  Data transmission rate  \$ 10 Gbit/s  Zones with oils and lubricants  Authorizations  CE  UL  UL File No.  Enclosure rating  Operating temperature  Stationary position  -40 °C +80 °C	Cable diameter	6.4 mm
Stationary position	Conductor cross section	0,14 mm²
Flexible use Stationary position  Reference voltage  ≤ 60 V DC  Rated impulse voltage  1.5 kV  Current loading  Signal type  Gigabit Ethernet  CAT6A  Data transmission rate  Authorizations  CE UL  UL File No.  Enclosure rating  Operating temperature  Stationary position  > 10 x cable diameter  > 8 x cable diameter	Shielding	Shielded
Stationary position  Reference voltage  ≤ 60 V DC  Rated impulse voltage  1.5 kV  Current loading  0.5 A  Gigabit Ethernet  Transmission characteristics  CAT6A  Data transmission rate  4 10 Gbit/s  Application  Authorizations  UL File No.  E513908  Enclosure rating  Deperating temperature  Stationary position  -40 °C +80 °C	Bending radius	
Reference voltage  ≤ 60 V DC  Rated impulse voltage  1.5 kV  Current loading  0.5 A  Gigabit Ethernet  CAT6A  CAT6A  Catransmission rate  ≤ 10 Gbit/s  Application  Authorizations  CE UL  UL File No.  E513908  Enclosure rating  Operating temperature  Stationary position  Stationary position	Flexible use	> 10 x cable diameter
≤ 60 V DC	Stationary position	> 8 x cable diameter
Rated impulse voltage  Current loading  0.5 A  Gigabit Ethernet  CAT6A  Catransmission rate  Application  Authorizations  CE UL  UL File No.  Enclosure rating  Operating temperature  Stationary position  1.5 kV  Cigabit Ethernet  CAT6A  CAT6A  ≤ 10 Gbit/s  Zones with oils and lubricants  CE UL  CE UL  CE UL  CHOO  C	Reference voltage	
Current loading  Signal type  Gigabit Ethernet  CAT6A  Data transmission rate  △ 10 Gbit/s  Application  Authorizations  CE UL  UL File No.  E513908  Enclosure rating  Operating temperature  Stationary position  O.5 A  Gigabit Ethernet  CAT6A  ∠OAT6A  ∠OAT6A  ∠OAT6A  ∠OB Bit/s  ∠Ones with oils and lubricants  CE UL  UL  CE UL  CF UL  C		≤ 60 V DC
Gigabit Ethernet  CAT6A  CAT6A  Data transmission rate  Application  Authorizations  UL File No.  Enclosure rating  Operating temperature  Stationary position  Gigabit Ethernet  CAT6A  CAT6A  Zones with oils and lubricants  CE UL  UL  CE UL  CE UL  CAT6A  Zones with oils and lubricants  CE UL  CE UL  CAT6A  Zones with oils and lubricants  CE UL  CH CAT6A  Authorizations  CAT6A  Zones with oils and lubricants  CE UL  CAT6A  Zones with oils and lubricants  CE UL  CAT6A  CAT6A  Zones with oils and lubricants  CE UL  CAT6A  Zones with oils and lubricants  CE UL  CAT6A  CAT6A  Zones with oils and lubricants  CE UL  CAT6A  CAT6A  Zones with oils and lubricants  CE UL  CAT6A  CAT6A  Zones with oils and lubricants  CE UL  CAT6A  CAT6A  Zones with oils and lubricants  CE UL  CAT6A  CAT6A  Authorizations  CE UL  CAT6A  Authorizations  CE UL  CAT6A  Authorizations  CAT6A  Authorizations  CE UL  CAT6A  CAT6A  Authorizations  CE UL  CAT6A  CAT6A  Authorizations  CE UL  CAT6A  CAT6A  CAT6A  Authorizations  CE UL  CAT6A  CA	Rated impulse voltage	1.5 kV
Transmission characteristics  CAT6A  Solution  Application  CE UL  UL File No.  E513908  Enclosure rating  Operating temperature  Stationary position  CAT6A  ≤ 10 Gbit/s  Zones with oils and lubricants  CE UL  CF UL  CF UC  CF UC  CF C	Current loading	0.5 A
Data transmission rate  Application  Authorizations  CE UL  UL File No.  Enclosure rating  Operating temperature  Stationary position  ≤ 10 Gbit/s  Zones with oils and lubricants  CE UL  CE UL  -40 °C +80 °C	Signal type	Gigabit Ethernet
Application  Authorizations  CE UL  UL File No.  E513908  Enclosure rating  Operating temperature  Stationary position  Zones with oils and lubricants  CE UL  -40 °C +80 °C	Transmission characteristics	CAT6A
Authorizations  CE UL  UL File No.  E513908  Enclosure rating  Departing temperature  Stationary position  -40 °C +80 °C	Data transmission rate	≤ 10 Gbit/s
UL File No. E513908 Enclosure rating Operating temperature Stationary position -40 °C +80 °C	Application	Zones with oils and lubricants
Enclosure rating  IP65 / IP67  Operating temperature  Stationary position -40 °C +80 °C	Authorizations	
Operating temperature  Stationary position -40 °C +80 °C	UL File No.	E513908
Stationary position -40 °C +80 °C	Enclosure rating	IP65 / IP67
	Operating temperature	
Head -25 °C +85 °C	Stationary position	-40 °C +80 °C
	Head	-25 °C +85 °C

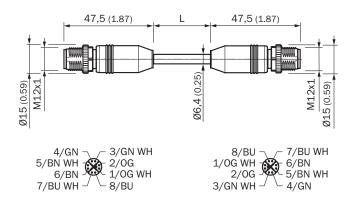
# YM2X18-030EG1M2X18 | Industrial Ethernet cables and fieldbus cables

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))



### 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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