

# DOL-1205-G30MQ

Industrial Ethernet cables and fieldbus cables

**CONNECTORS AND CABLES** 

**SICK**Sensor Intelligence.



#### Ordering information

Туре	part no.
DOL-1205-G30MQ	6032639

Other models and accessories -> www.sick.com/Industrial\_Ethernet\_cables\_and\_fieldbus\_cables



#### Detailed technical data

#### Technical specifications

Connection type head B         Female connector, M12, 5-pin, straight, B-coded           Connection type         Flying leads           Connector material         TPU           Connector color         Back           Locking nut material         Zinc die-cast, nickel-plated           Tightening torque         0.5 Nm           Cable         30 m, 2 wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Violet           Cable diameter         7.6 mm           Conductor cross section         2 x 0.34 mm²           Shielding         Shielded           Bending radius         Flexible use         > 50 x cable diameter           Flexible use         > 5 x cable diameter           Stationary position         > 5 x cable diameter           Bending cycles         2 (000,000           Reference voltage         1.5 kV           Querent loading         4 A           Traversing speed         3 m/s           Traveling distance         5 m/s²           Signal type         Fieldbus, PROFIBUS DP           Special feature         Wisted pair           Application         Connection tild british and lubricants           Encoloure rating         Ones w		
Connection typeFlying leadsConnector materialTPUConnector colorBlackLocking nut material2 inc die-cast, nickel-platedTightening torque0.5 NmCable30 m, 2-wire, PUR, halogen-freeJacket materialPUR, halogen-freeJacket colorVioletCable diameter7.6 mmConductor cross section2 x 0.34 mm²Shielding> 10 x cable diameterFlexible us Stationary position> 5 x cable diameterBending cycles> 5 x cable diameterReference voltage< 5 x cable diameter	Connection type head A	Female connector, M12, 5-pin, straight, B-coded
Connector material         TPU           Connector color         Black           Locking nut material         Zinc die-cast, nickel-plated           Tightening torque         0.5 Nm           Cable         30 m, 2-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Violet           Cable diameter         7.6 mm           Conductor cross section         2 x 0.34 mm²           Shielding         Shielded           Bending radius           Flexible us Stationary position         > 10 x cable diameter           Stationary position         > 5 x cable diameter           Bending cycles         ≥ 1,000,000           Reference voltage         ≥ 60 ∨           Rated impulse voltage         1.5 kV           Current loading         4 A           Traversing speed         3 m/s           Travelling distance         5 m           Acceleration         ≤ 5 m/s²           Signal type         Fieldbus, PROFIBUS DP           Special feature         Twisted pair           Application         Zones with oils and lubricants	Connection type head B	Flying leads
Connector color         Black           Locking nut material         Zinc die-cast, nickel-plated           Tightening torque         0.5 Nm           Cable         30 m, 2-wire, PUR, halogen-free           Jacket material         PUR, halogen-free           Jacket color         Violet           Cable diameter         7.6 mm           Conductor cross section         2 x 0.34 mm²           Shielding         Shielded           Bending radius         Flexible use 5 to cable diameter           Stationary position         5 x cable diameter           Stationary position         5 x cable diameter           Bending cycles         2 1,000,000           Reference voltage         4 0           Rated impulse voltage         1.5 kV           Current loading         4 A           Traversing speed         3 m/s           Travelling distance         5 m           Acceleration         5 m/s²           Signal type         Fieldbus, PROFIBUS DP           Special feature         Twisted pair           Application         Zones with oils and lubricants	Connection type	Flying leads
Locking nut material       Zinc die-cast, nickel-plated         Tightening torque       0.5 Nm         Cable       30 m, 2-wire, PUR, halogen-free         Jacket material       PUR, halogen-free         Jacket color       violet         Cable diameter       7.6 mm         Conductor cross section       \$ heided         Shielding       \$ heided         Bending radius       \$ 10 x cable diameter         Flexible use       \$ 10 x cable diameter         Stationary position       \$ 5 x cable diameter         Bending cycles       \$ 1,000,000         Reference voltage       \$ 60 V         Rated impulse voltage       4 A         Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m/s²         Acceleration       \$ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Connector material	TPU
Tightening torque       0.5 Nm         Cable       30 m, 2-wire, PUR, halogen-free         Jacket material       PUR, halogen-free         Jacket color       violet         Cable diameter       7.6 mm         Conductor cross section       2 x 0.34 mm²         Shielding       Shielded         Flexible use Pilexible use Pilexible diameter         Stationary position Stationary position Pilexible diameter         Stationary position Pilexible DP         Stationary position Pilexible DP         Special feature       4 A         Application       5 m/s²         Special feature       7 wisted pair         Application       2 cons with oils and lubricants	Connector color	Black
Cable       30 m, 2-wire, PUR, halogen-free         Jacket material       PUR, halogen-free         Jacket color       Violet         Cable diameter       7.6 mm         Conductor cross section       2 x 0.34 mm²         Shielding       Shielded         Bending radius       Flexible use planting trace         Flexible use planting yosition       > 5 x cable diameter         Stationary position       > 5 x cable diameter         Bending cycles       ≥ 1,000,000         Reference voltage       ≤ 60 V         Rated impulse voltage       1.5 kV         Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Locking nut material	Zinc die-cast, nickel-plated
Jacket material PUR, halogen-free  Coble diameter 7.6 mm  Conductor cross section 2 x 0.34 mm²  Shielding Shielded  Bending radius Flexible use 5 to x cable diameter 5 x x cable diameter  Stationary position 5 x x cable diameter 5 x x x x x x x x x x x x x x x x x x	Tightening torque	0.5 Nm
Jacket color       Violet         Cable diameter       7.6 mm         Conductor cross section       2 x 0.34 mm²         Shielding       Shielded         Bending radius       > 10 x cable diameter         Flexible use       > 5 x cable diameter         Stationary position       > 5 x cable diameter         Bending cycles       ≥ 1,000,000         Reference voltage       ≤ 60 V         Rated impulse voltage       4 A         Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Cable	30 m, 2-wire, PUR, halogen-free
Cable diameter       7.6 mm         Conductor cross section       2 x 0.34 mm²         Shielding       Shielded         Flexible use Stationary position       > 10 x cable diameter         Flexible use Stationary position       > 5 x cable diameter         Bending cycles       ≥ 1,000,000         Reference voltage         € 60 V         Rated impulse voltage       1.5 kV         Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m/s²         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Jacket material	PUR, halogen-free
Conductor cross section2 x 0.34 mm²ShieldingShieldedBending radius> 10 x cable diameterStationary position> 5 x cable diameterBending cycles> 1,000,000Reference voltage< 60 V	Jacket color	Violet
Shielding Shielded   Bending radius > 10 x cable diameter   Stationary position > 5 x cable diameter   Bending cycles ≥ 1,000,000   Reference voltage ≤ 60 V   Rated impulse voltage 1.5 kV   Current loading 4 A   Traversing speed 3 m/s   Travelling distance 5 m   Acceleration ≤ 5 m/s²   Signal type Fieldbus, PROFIBUS DP   Special feature Twisted pair   Application Zones with oils and lubricants	Cable diameter	7.6 mm
Bending radius         Flexible use       > 10 x cable diameter         Stationary position       > 5 x cable diameter         Bending cycles       ≥ 1,000,000         Reference voltage         Current loading       1.5 kV         Current loading       4 A         Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Conductor cross section	2 x 0.34 mm <sup>2</sup>
Flexible use Stationary position       > 10 x cable diameter         Bending cycles       > 5 x cable diameter         Reference voltage         ≤ 60 V         Rated impulse voltage       1.5 kV         Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Shielding	Shielded
Stationary position       > 5 x cable diameter         Bending cycles       ≥ 1,000,000         Reference voltage       ≤ 60 V         Rated impulse voltage       1.5 kV         Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Bending radius	
Bending cycles       ≥ 1,000,000         Reference voltage         ≤ 60 V         Rated impulse voltage       1.5 kV         Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Flexible use	> 10 x cable diameter
Reference voltage       ≤ 60 V         Rated impulse voltage       1.5 kV         Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Stationary position	> 5 x cable diameter
≤ 60 V         Rated impulse voltage       1.5 kV         Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Bending cycles	≥ 1,000,000
Rated impulse voltage1.5 kVCurrent loading4 ATraversing speed3 m/sTravelling distance5 mAcceleration≤ 5 m/s²Signal typeFieldbus, PROFIBUS DPSpecial featureTwisted pairApplicationZones with oils and lubricants	Reference voltage	
Current loading       4 A         Traversing speed       3 m/s         Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants		≤ 60 V
Traversing speed 3 m/s  Travelling distance 5 m  Acceleration ≤ 5 m/s²  Signal type Fieldbus, PROFIBUS DP  Special feature Twisted pair  Application Zones with oils and lubricants	Rated impulse voltage	1.5 kV
Travelling distance       5 m         Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Current loading	4 A
Acceleration       ≤ 5 m/s²         Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Traversing speed	3 m/s
Signal type       Fieldbus, PROFIBUS DP         Special feature       Twisted pair         Application       Zones with oils and lubricants	Travelling distance	
Special feature Twisted pair  Application Zones with oils and lubricants	Acceleration	≤ 5 m/s²
Application Zones with oils and lubricants	Signal type	Fieldbus, PROFIBUS DP
	Special feature	Twisted pair
Enclosure rating IP67	Application	Zones with oils and lubricants
	Enclosure rating	IP67

Operating temperature	
Flexible use	-25 °C +80 °C
Stationary position	-50 °C +80 °C
Drag chain operation	-25 °C +60 °C
Head	-25 °C +85 °C

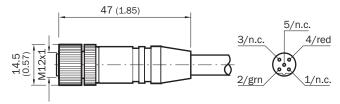
#### Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
China RoHS	✓

#### 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.

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

