Product data sheet

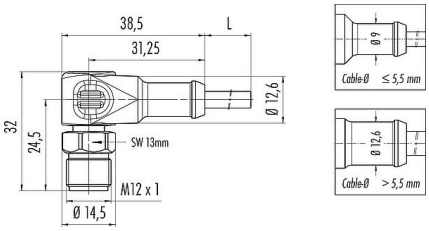
Automation technology - Sensors and actuators

Product description	**M12 Male angled connector, Contacts: 12, unshielded, moulded on the cable, IP67/IP69K, Ecolab, FDA compliant, Special TPE, grey, 12 x 0.25 mm², stainless steel, 2 m**
Area	**M12-A**
Coding	**A-coded**
Series	**763**
Part no.	**77 3727 0000 40912-0200**

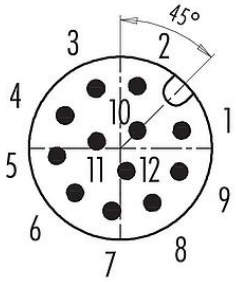
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



1 brown
2 blue
3 white
4 green
5 pink
6 yellow
7 black
8 grey
9 red
10 purple
11 grey/pink
12 red/blue

Cable length tolerance

cable length	tolerance
≥ 0,10 m	+ 0,03 m
≥ 0,20 m	+ 0,04 m
≥ 0,50 m	+ 0,07 m
≥ 1,00 m	+ 0,10 m
≥ 2,00 m	+ 0,15 m
≥ 5,00 m	+ 0,20 m
≥ 10,0 m	+ 0,25 m
≥ 20,0 m	+ 0,35 m

Technical data

General features

Part no.	77 3727 0000 40912-0200
Connector design	Male angled connector
Type standard	DIN EN 61076-2-101

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Coding	A-coded
Cable length	2 m (Standard 2 m and 5 m. Other lengths are available on request.)
Version	Connector pin angled
Connector locking system	screw
Termination	moulded on the cable
Degree of protection	IP67/IP69K
Connection cross-section	0.25 mm² / AWG 24
Temperature range from/to	-40 °C / 105 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	138.84
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	30 V
Rated impulse voltage	800 V
Rated current	1.5 A
Insulation resistance	≥ 10^{10} Ω
Pollution degree	3
Overvoltage category	II
Insulating material group	II
EMC compliance	unshielded

Material

Housing material	PP
Contact body material	PP
Contact material	CuZn (brass)
Contact plating	Au (gold)
Locking material	Stainless steel
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	42bce4ec-c318-48e0-bfa0-c5ce73e4ff30

Cable data - Structure of the cable

Cable diameter	6.9 mm
Cross section	12 x 0.25 mm²
Sheath material	Special TPE
Single-lead insulation	modified TPE
Single-lead structure	32 x 0.10 mm
Cable color	grey

Cable data - Mechanical properties

Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Bending cycles	2 million

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Permitted acceleration	5 m/s²
Travel distance, horizontal	5 m

Cable data - Thermal properties

Temperature range cable in move from/to	-25 °C / 105 °C
Temperature range cable fixed from/to	-50 °C / 105 °C

Cable data - Other features

Halogen free	yes

Authorization/approvals

Approvals	Ecolab, FDA compliant

Classifications

eCl@ss 11.1	27-06-03-11
ETIM 9.0	EC002638

Declarations of conformity

RoHS Directive	EN IEC 63000:2018

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Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).

The protection class specification applies on condition that the four mounting holes are made as blind holes.