

Product data sheet

Automation technology - Sensors and actuators

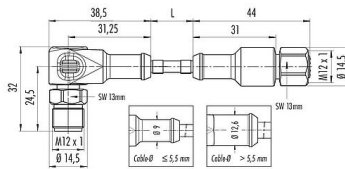


Product description	M12/M12 Connecting cable male angled connector - female cable connector, Contacts: 12, unshielded, moulded on the cable, IP69K, Ecolab, FDA compliant, Special TPE, grey, 12 x 0.25 mm², Food & Beverage, stainless steel, 5 m
Area	M12-A
Part no.	77 3730 3727 40912-0500

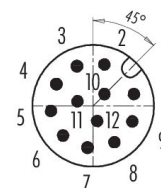
Illustration



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

Technical data

General features

Part no.	77 3730 3727 40912-0500
Connector design	Connecting cable male angled connector - female cable connector
Type standard	DIN EN 61076-2-101
Cable length	5 m (Other lengths are available on request.)
Version	Connecting cable
Connector locking system	screw
Termination	moulded on the cable
Degree of protection	IP69K IP67
Cross-sectional area	0.25 mm ² / AWG 24
Temperature range from/to	-40 °C / 105 °C
Mechanical operation	> 100 Mating cycles
Additional information	Food & Beverage stainless steel
Weight (g)	306.00
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	$\geq 10^{10} \Omega$
Pollution degree	3
Overvoltage category	II

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Insulating material group	II
EMC compliance	unshielded

Material

Housing material	PP
Contact body material	PP
Contact material	CuZn (brass) / CuSn (bronze)
Contact plating	Au (gold)
Locking material	Stainless steel
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	4326a6f1-d9d9-462f-8802-17bfbec0e6c

Authorization/approvals

Approvals	Ecolab, FDA compliant
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Classifications

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

Declarations of conformity

RoHS Directive	2011/65/EU (EN 50581:2012)
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Cable data - Structure of the cable

Cable diameter	6.9 mm
Cross section	12 x 0.25 mm ²
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
Permitted acceleration	5 m/s ²
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
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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.

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.