Product data sheet

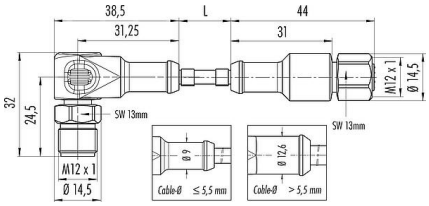
Automation technology - Sensors and actuators

Product description	**M12 Connecting cable male angled connector - female cable connector, Contacts: 12, unshielded, moulded on the cable, IP67/IP69K, UL 2238, Ecolab, PVC, grey, 12 x 0.25 mm², Food & Beverage, stainless steel, 5 m**
Area	**M12-A**
Coding	**A-coded**
Series	**763**
Part no.	**77 3730 3727 20912-0500**

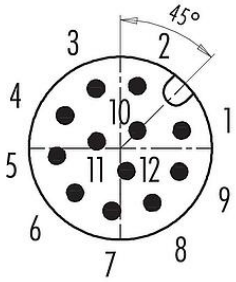
Illustration (may vary)



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 3730 3727 20912-0500
Connector design	Connecting cable male angled connector - female cable connector
Type standard	DIN EN 61076-2-101

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Coding	A-coded
Cable length	5 m (Other lengths are available on request.)
Version	Double ended cordsets
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)	529.9
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) / CuSn (bronze)
Contact plating	Au (gold)
Locking material	Stainless steel
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	2bc508a8-7be7-4dac-ab58-0f9a4cef0e99

Cable data - Structure of the cable

Cable diameter	6.6 mm
Cross section	12 x 0.25 mm²
Sheath material	PVC
Single-lead insulation	PVC
Single-lead structure	32 x 0.10 mm
Cable color	grey

Cable data - Electrical properties

Conductor resistance	75 Ω/Km (20°C)

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Cable data - Mechanical properties

Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 10 x Ø
Bending cycles	> 2 million
Permitted acceleration	max. 5 m/s² + 1 m/s²
Travel distance, horizontal	5 m/s² -> 5 m
Travel distance, vertical	5 m/s² -> 2 m
Travel speed	≤ 200 m/min (5 m horizontal distance)

Cable data - Thermal properties

Temperature range cable in move from/to	-5 °C / 105 °C
Temperature range cable fixed from/to	-40 °C / 105 °C

Cable data - Other features

Halogen free	no

Authorization/approvals

Approvals	UL 2238, Ecolab

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.