Product data sheet

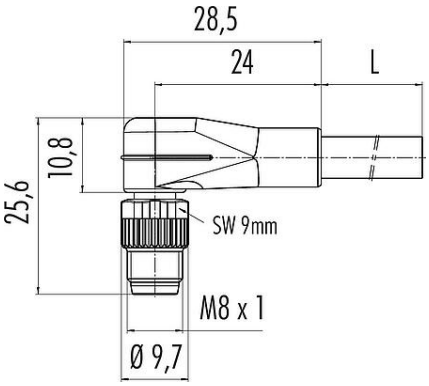
Automation technology - Sensors and actuators

Product description	**M8 Male angled connector, Contacts: 12, unshielded, moulded on the cable, IP67, UL 2238, PVC, grey, 12 x AWG 28, 2 m**
Area	**M8-C**
Coding	**C-coded**
Series	**718**
Part no.	**77 3403 0000 20012-0200**

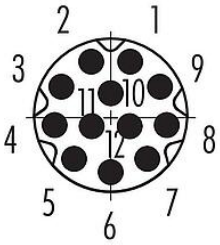
Illustration (may vary)



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 3403 0000 20012-0200
Connector design	Male angled connector

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Type standard	DIN EN 61076-2-104
Coding	C-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
Connection cross-section	0.09 mm² / AWG 28
Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	152
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	30 V
Rated impulse voltage	500 V
Rated current	1.0 A
Pollution degree	2
Overvoltage category	II
Insulating material group	I
EMC compliance	unshielded

Material

Housing material	PUR
Contact body material	PUR
Contact material	CuZn (brass)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	6b772f20-c434-4b8c-8edc-54cbaaf3381f

Cable data - Structure of the cable

Cable diameter	5.2 mm
Cross section	12 x AWG 28
Sheath material	PVC
Single-lead insulation	PP
Single-lead structure	19 x 0.079 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
Travel distance, vertical	2 m
Travel speed	at 5 m horizontal path -> 200 m/min

Cable data - Thermal properties

Temperature range cable in move from/to	-25 °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

Classifications

ETIM 9.0	EC002638

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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.

To protect against unintentional opening of the connector, the thread between the housing and the connector head must be secured with a suitable cyanoacrylate adhesive when used in circuits with voltages dangerous to the touch. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

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.

Plug connectors with enclosure protection IP67 and IP68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 40 cNm).