

Product data sheet

Automation technology - Data transmission

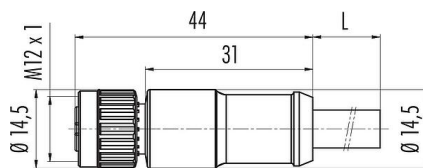


Product description	M12 Female cable connector, Contacts: 2+7, moulded on the cable, IP67, PUR, black, Power: 2 x 0.75 (AWG 18), Signal: 7 x 0.14 (AWG 26), 1.85 m
Area	M12-Hybrid
Coding	A-coded
Series	767
Part no.	77 8406 0000 30709-0185

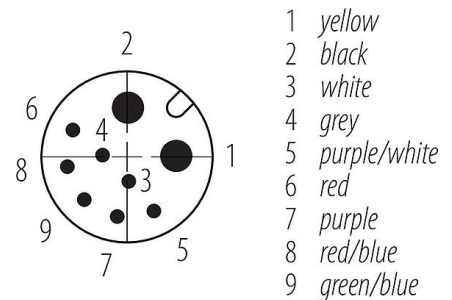
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



Cable length tolerance

<i>cable length</i>	<i>tolerance</i>
$\geq 0,10$ m	+ 0,03 m
$\geq 0,20$ m	+ 0,04 m
$\geq 0,50$ m	+ 0,07 m
$\geq 1,00$ m	+ 0,10 m
$\geq 2,00$ m	+ 0,15 m
$\geq 5,00$ m	+ 0,20 m
$\geq 10,0$ m	+ 0,25 m
$\geq 20,0$ m	+ 0,35 m

Technical data

General features

Part no.	77 8406 0000 30709-0185
Connector design	Female cable connector
Coding	A-coded
Cable length	1.85 m (Other lengths are available on request.)
Version	Connector socket straight
Connector locking system	screw
Termination	moulded on the cable

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Degree of protection	IP67
Connection cross-section	Power: 0.75–1.5 mm ² , Signal: 0.14–0.25 mm ² / Power: AWG 20-18, Signal: AWG 26-24
Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	245.8645
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	Power: 63 V, Signal: 12.5 V
Rated impulse voltage	Power: 800 V, Signal: 500 V
Rated current	12 A Power / 0,5 A Signal
Pollution degree	2
Overvoltage category	II
Insulating material group	I

Material

Housing material	PUR
Contact body material	TPU
Contact material	CuSn (bronze)
Contact plating	Au (gold)
Locking material	PA
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	3144a082-1ade-4507-85a6-84a879637a68

Cable data - Structure of the cable

Cable diameter	7.0 mm
Cross section	Power: 2 x 0.75 (AWG 18), Signal: 7 x 0.14 (AWG 26)
Sheath material	PUR
Single-lead insulation	PP
Single-lead structure	2 x 0.75 mm ² / 7 x 0.14 mm ²
Cable color	black

Cable data - Mechanical properties

Bending radius, fixed cable	3 x Ø
Bending radius, moving cable	9 x Ø

Cable data - Thermal properties

Temperature range cable in move from/to	-20 °C / 60 °C
Temperature range cable fixed from/to	-40 °C / 85 °C

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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".