

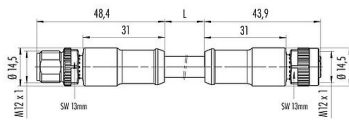
Product description **M12 Male cable connector - female cable connector M12x1, Contacts: 4, unshielded, moulded on the cable, IP68, PUR, black, 4 x 1.50 mm², 2 m**

Area **Connecting cords**
Part no. **77 0606 0605 50704-0200**

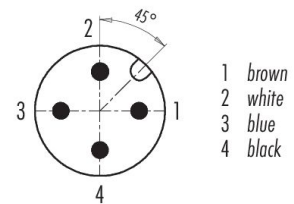
Illustration



Scale drawing



Contact arrangement (Plug-in side)



Technical data

General features

Part no.	77 0606 0605 50704-0200
Connector design	Male cable connector - female cable connector M12x1
Type standard	DIN EN 61076-2-101
Cable length	2 m (Standard 1 m and 2 m. Other lengths are available on request.)
Version	Connecting cable
Connector locking system	screw
Termination	moulded on the cable
Degree of protection	IP68
Cross-sectional area	1.50 mm ² / AWG 16
Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	137.00
Customs tariff number	85444290

Electrical parameters

Rated voltage	250 V
Rated impulse voltage	2500 V
Rated current	8.0 A
Insulation resistance	≥ 10 ¹⁰ Ω
Pollution degree	3
Overvoltage category	II
Insulating material group	I
EMC compliance	unshielded

Material

Housing material	PUR
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Contact body material	PUR
Contact material	CuZn (brass) / CuSn (bronze)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	d405a673-c8f7-4e9e-aca7-420459da9595

Classifications

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

Declarations of conformity

Low Voltage Directive	2014/35/EU (EN 60529:1991;EN 60204-1:2018)
RoHS Directive	2011/65/EU (EN 50581:2012)

Cable data - Structure of the cable

Cable diameter	4.7 mm
Cross section	4 x 1.50 mm ²
Sheath material	PUR
Single-lead insulation	PP9Y halogen-free
Single-lead structure	43 x 0.10 mm
Cable color	black

Cable data - Electrical properties

Conductor resistance	13.3 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	> 5 million
Permitted acceleration	≥ 5 m/s ²
Travel distance, horizontal	20 m
Travel speed	≤ 200 m/min

Cable data - Thermal properties

Temperature range cable in move from/to	-25 °C / 80 °C
Temperature range cable fixed from/to	-50 °C / 80 °C

Cable data - Other features

Halogen free	yes
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Security notices

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.

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.

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