Product data sheet

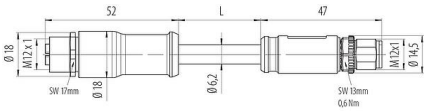
Automation technology - Data transmission

Product description	**M12 Connecting cable male cable connector - female cable connector, Contacts: 8, shielded, moulded on the cable, IP67, M12x1.0, E-beam X-FRNCL/LSNH, blue, 5 m**
Area	**M12-X**
Coding	**X-coded**
Series	**876**
Part no.	**77 4506 4505 90708-0500**

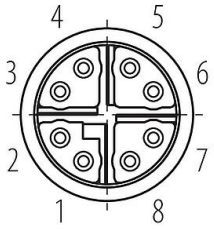
Illustration (may vary)



Scale drawing



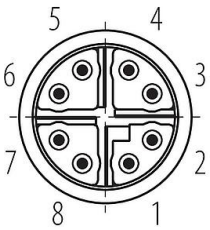
Contact arrangement (Plug-in side)



1 white-orange
2 orange
3 white-green
4 green
5 white-brown
6 brown
7 white-blue
8 blue

shield on housing

Contact arrangement (Plug-in side)



1 white-orange
2 orange
3 white-green
4 green
5 white-brown
6 brown
7 white-blue
8 blue

shield on housing

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 4506 4505 90708-0500
Connector design	Connecting cable male cable connector - female cable connector
Coding	X-coded
Cable length	5 m
Version	Double ended cordsets
Connector locking system	screw

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Termination	moulded on the cable
Degree of protection	IP67
Connection cross-section	AWG 24/19
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	501
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	50 V (AC) / 60 V (DC)
Rated impulse voltage	800 V
Rated current	0.5 A
Insulation resistance	> 10^{8} Ω
Pollution degree	3
Transmission rate	CAT 7
Insulating material group	II
EMC compliance	shielded

Material

Housing material	Zinc die-cast nickel-plated
Contact body material	Polymid
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	2fa64594-2eb8-46fd-b3f5-93fe34a569ac

Cable data - Structure of the cable

Cable diameter	8.1 mm
Sheath material	E-beam X-FRNCL/LSNH
Cable color	blue

Cable data - Thermal properties

Temperature range cable in move from/to	-40 °C / 90 °C
Temperature range cable fixed from/to	-40 °C / 90 °C

Cable data - Other features

Flame resistance	IEC 60332-1-2 IEC 60332-3-25 cat D

Authorization/approvals

Norms and regulations	DIN EN 61373

Product data sheet

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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.

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".