Product data sheet

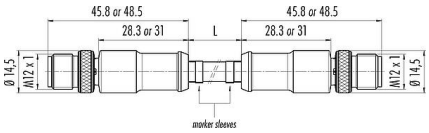
Automation technology - Data transmission

Product description	**M12 Connecting cable 2 male cable connectors, Contacts: 4, shielded, moulded on the cable, IP67, UL, Profinet/Ethernet CAT5e, PUR, green, 4 x AWG 22, 2 m**
Area	**M12-D**
Coding	**X-coded**
Series	**876**
Part no.	**77 4529 4529 50704-0200**

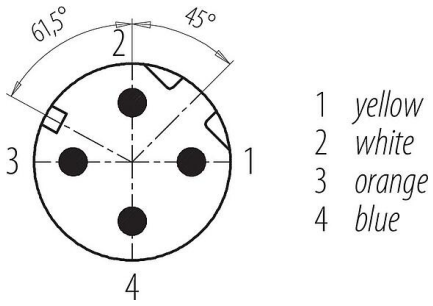
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



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 4529 4529 50704-0200
Connector design	Connecting cable 2 male cable connectors
Type standard	DIN EN 61076-2-101
Coding	X-coded
Cable length	2 m (Standard 1 m and 2 m. Other lengths are available on request.)
Version	Double ended cordsets
Connector locking system	screw

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Termination	moulded on the cable
Degree of protection	IP67
Connection cross-section	1 x 4 x AWG 22
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	307
Customs tariff number	85444290
Country of Origin	DE

Electrical parameters

Rated voltage	25 V AC (60 V DC)
Rated impulse voltage	2500 V
Rated current	4.0 A
Insulation resistance	> 10^{10} Ω
Pollution degree	3
Transmission rate	CAT 5
Overvoltage category	II
Insulating material group	I
EMC compliance	shielded
Shield connection	Shield on the threaded ring
Voltage	1400 V DC

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	446c48c7-8b1c-46fe-a238-eccc2763b695

Cable data - Structure of the cable

Cable type	Profinet/Ethernet CAT5e
Cable diameter	6.7 mm
Cross section	4 x AWG 22
Sheath material	PUR
Single-lead insulation	Polyolefin
Single-lead structure	AWG 22/7
Cable color	green

Cable data - Electrical properties

Conductor resistance	55 Ω/Km (20°C)

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Cable data - Mechanical properties

Bending radius, fixed cable	≥ 5 x Ø
Bending radius, moving cable	≥ 15 x Ø
Bending cycles	2 million
Permitted acceleration	max. 2 m/s²
Travel distance, horizontal	at 5 m/s² -> 5 m
Travel distance, vertical	at 5 m/s² -> 5 m
Travel speed	≤ 200 m/min (5 m horizontal distance)

Cable data - Thermal properties

Temperature range cable in move from/to	-20 °C / 60 °C
Temperature range cable fixed from/to	-40 °C / 80 °C

Cable data - Other features

Halogen free	yes

Authorization/approvals

Approvals	UL

Classifications

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

Declarations of conformity

Low Voltage Directive	EN 60529:1991 | EN 60204-1:2018
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.

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".