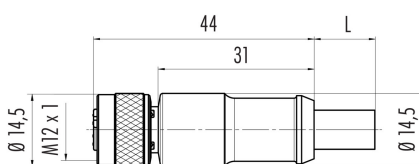


Product description	M12-D female cable connector, Contacts: 4, shielded, moulded cable, IP67, UL listed, Profinet, PUR green, 4 x AWG22, 2 m
Area	M12-D series 876
Part no.	77 4530 0000 50704-0200

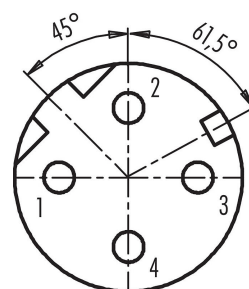
Illustration



Scale drawing



Contact arrangement (Plug-in side)



- 1 yellow
- 2 white
- 3 orange
- 4 blue

Technical data

General features

Part no.	77 4530 0000 50704-0200
Connector design	female cable connector
Cable length	2 m
Version	connector female straight
Connector locking system	screw
Termination	moulded cable
Degree of protection	IP67
Cross-sectional area	1x4x AWG 22
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	331
Customs tariff number	85444290

Electrical parameters

Rated voltage	250 V
Rated impulse voltage	2500 V
Rated current (40 °C)	4 A
Insulation resistance	> 10 <sup>10</sup> 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

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### Material

Housing material	PUR
Contact body material	PUR
Contact material	CuSn (bronze)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	2a8ef765-b60e-478a-a37c-586225e1fbde

### Authorization/approvals

Approvals	UL listed
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### Classifications

eCl@ss 11.1	27-06-03-11
ETIM 7.0	EC001855

### 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 type	Profinet
Cable diameter	6.7 mm
Cross section	4 x AWG22
Sheath material	PUR
Single-lead insulation	Polyolefin
Single-lead structure	AWG 22/7 mm
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/sec <sup>2</sup>
Travel distance, horizontal	bei 5 m/s <sup>2</sup> -> 5 m

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Travel distance, vertical bei 5 m/s<sup>2</sup> -> 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

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Area	M12-D series 876
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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.

Plug connectors with enclosure protection IP 67 and IP 68 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).