

# Product data sheet

## Automation technology - Voltage and Power Supply

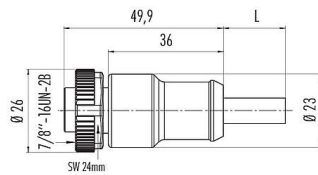


Product description	7/8" Female cable connector, Contacts: 5, unshielded, moulded on the cable, IP68, UL, PUR, black, 5 x 1.50 mm <sup>2</sup> , 2 m
Area	7/8"
Part no.	77 1430 0000 50005-0200

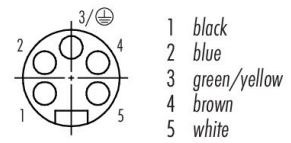
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



## Technical data

### General features

Part no.	<b>77 1430 0000 50005-0200</b>
Connector design	Female cable connector
Cable length	2 m (Standard 2 m and 5 m. Other lengths are available on request.)
Version	Connector socket straight
Connector locking system	screw
Termination	moulded on the cable
Degree of protection	IP68
Cross-sectional area	1.50 mm <sup>2</sup> / AWG 16
Temperature range from/to	-25 °C / 80 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	421.00
Customs tariff number	85444290

### Electrical parameters

Rated voltage	300 V (600 V UL)
Rated impulse voltage	2500 V
Rated current	9.0 A
Pollution degree	3
Overvoltage category	II
Insulating material group	I
EMC compliance	unshielded

### Material

Housing material	PUR
Contact body material	PUR
Contact material	CuSn (bronze)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)

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SCIP number b845d758-541f-47ea-947a-60aaace14618

### Authorization/approvals

Approvals UL

### 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)

### Cable data - Structure of the cable

Cable diameter 8.7 mm  
Cross section 5 x 1.50 mm<sup>2</sup>  
Sheath material PUR  
Single-lead insulation TPM  
Single-lead structure 82 x 0.15 mm  
Cable color black

### Cable data - Mechanical properties

Bending radius, fixed cable  $\geq 7.5 \times \varnothing$   
Bending cycles 5 million  
Permitted acceleration 5 m/s<sup>2</sup>  
Travel distance, horizontal 20 m  
Travel speed  $\leq 300$  m/min

### Cable data - Thermal properties

Temperature range cable in move from/to -20 °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 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.

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. 50 cNm).