

Product data sheet

Automation technology - Voltage and Power Supply

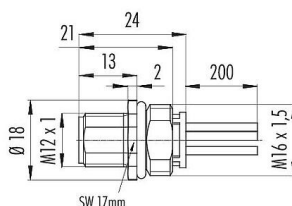


Product description	M12 Male panel mount connector, Contacts: 4+PE, unshielded, single wires, IP68, UL, M16x1.5
Area	series 824
Part no.	09 0701 700 05

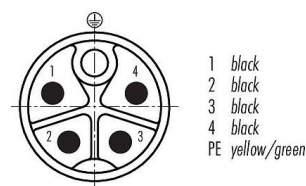
Illustration



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	09 0701 700 05
Connector design	Male panel mount connector
Type standard	DIN EN IEC 61076-2-111:2018-10;VDE 0687-76-2-111:2018-10
Version	Connector pin straight
Connector locking system	screw
Termination	single wires
Degree of protection	IP68
Cross-sectional area	AWG 16
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	25.99
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	630 V
Rated impulse voltage	6000 V
Rated impulse voltage UL	6000 V
Rated current	12.0 A
Insulation resistance	> 10 ¹⁰ Ω
Pollution degree	3
Overvoltage category	III
Insulating material group	II
EMC compliance	unshielded

Product data sheet

Automation technology - Voltage and Power Supply



Product description	M12 Male panel mount connector, Contacts: 4+PE, unshielded, single wires, IP68, UL, M16x1.5
Area	series 824
Part no.	09 0701 700 05

Material

Housing material	CuZn (Brass nickel plated)
Contact body material	PA
Contact material	CuZn (brass)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	69f29b76-ba9b-433b-84e1-7370b20ad112

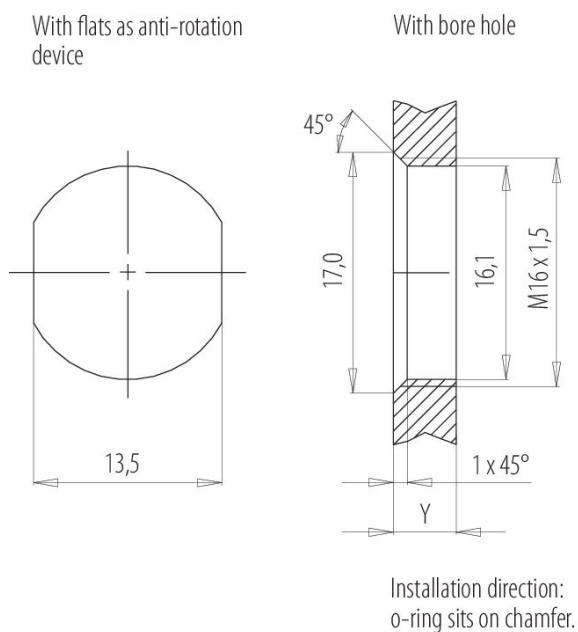
Authorization/approvals

Approvals	UL
-----------	----

Classifications

eCl@ss 11.1	27-44-01-09
ETIM 9.0	EC003569

Assembly instructions / Panel cut-out



Tightening moment

Metall housing/Plastic housing 1,25 Nm

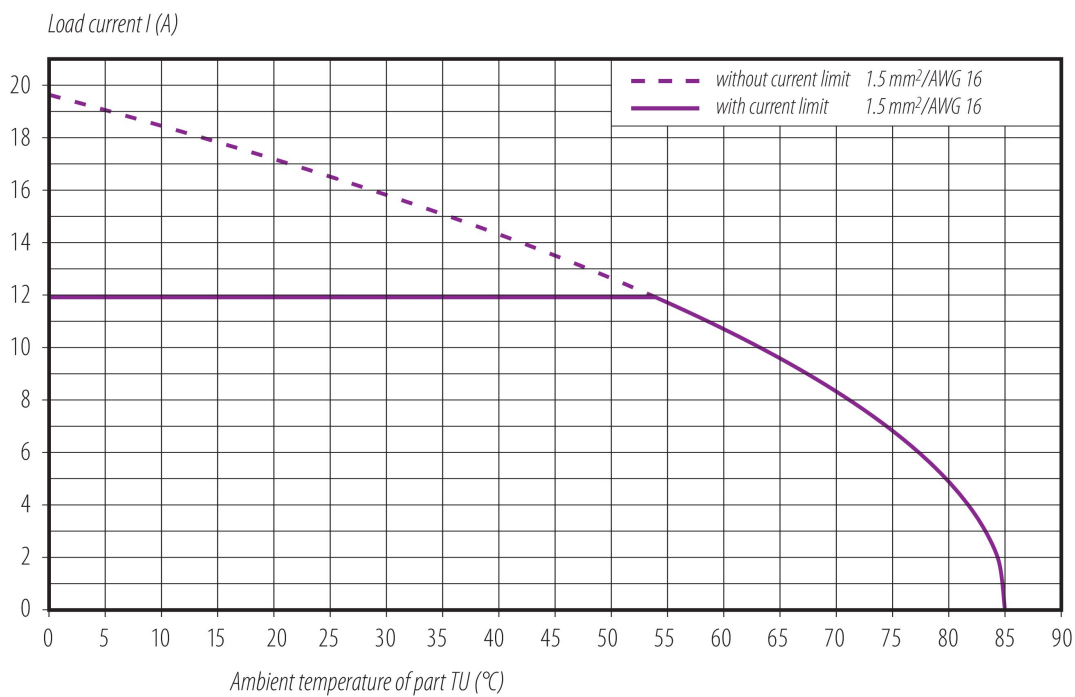
Thickness of wall Y (mm)		
Version	min (mm)	max (mm)
Fastened from rear	2	3,5
Front fastened	2	4,5
positioning possible ¹⁾	2	3,5
Screw clamp	2	3,5
Thread M12 x 1	2	3,0
Thread M14 x 1 ²⁾	³⁾ 1,5/ ⁴⁾ 2	6,5

Notes

- ¹⁾ Do not attach a chamfer
- ²⁾ Wall thickness:
use nut 38 5385 100 001 up to 1,5 mm,
>1,5 mm cut thread
- ³⁾ Nut
- ⁴⁾ Thread in wall of housing

Product description	M12 Male panel mount connector, Contacts: 4+PE, unshielded, single wires, IP68, UL, M16x1.5
Area	series 824
Part no.	09 0701 700 05

Derating curve



Product description	M12 Male panel mount connector, Contacts: 4+PE, unshielded, single wires, IP68, UL, M16x1.5
Area	series 824
Part no.	09 0701 700 05

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.

The plug connector is not suitable for mains voltages Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

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

In the case of cable connectors with a metal threaded ring, it is imperative to ensure a connection with the PE protective contact of the appliance connector. Connecting cables between appliance connectors that are not connected to the PE contact are not permitted. The user must ensure a continuous connection of the protective earth conductor.