Product data sheet

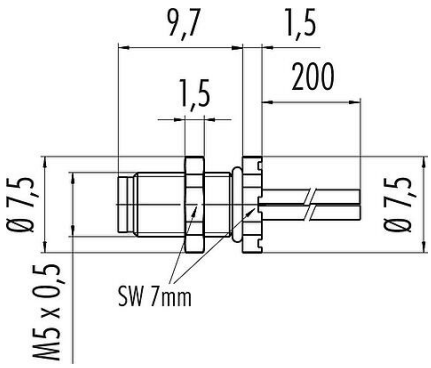
Automation technology - Sensors and actuators

Product description	**M5 Male panel mount connector, Contacts: 3, unshielded, single wires, IP67, M5x0.5, Rear mounting, potted**
Area	**M5**
Coding	**A-coded**
Series	**707**
Part no.	**09 3105 86 03**

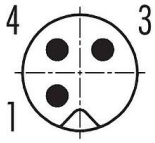
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



1 brown
2 not assembled
3 blue
4 black

You can find the assembly instructions on the next page.

Technical data

General features

Part no.	09 3105 86 03
Connector design	Male panel mount connector
Type standard	DIN EN 61076-2-105
Coding	A-coded
Wire length	0.2 m (Standard 0.2 m. Other lengths are available on request).
Version	Connector pin straight
Connector locking system	screw
Termination	single wires
Degree of protection	IP67
Connection cross-section	0.14 mm² / AWG 26
Temperature range from/to	-25 °C / 80 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	2.62
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	60 V
Rated impulse voltage	800 V
Rated current	1.0 A
Insulation resistance	> 10^{8} Ω
Pollution degree	3
Overvoltage category	II

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Insulating material group	I
EMC compliance	unshielded

Material

Contact body material	PA
Contact material	CuZn (brass)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	1ea3c90a-9c9a-4d6b-9bb5-c57c8f1b7f56

Wire Data - Structure of the wire

Cross section (mm²)	3 x 0.14 mm²
Cross section (AWG)	3 x AWG 26
Wire diameter	1,1 mm
Wire colors	black brown blue
Sheath material	PVC
Wire material	Cu (tinned)
Wire structure	18 x 0.10 mm

Wire Data - Electrical properties

Rated voltage	500 V
Rated impulse voltage	1200 V
Wire resistance	135 Ω/Km (20°C)
Insulation resistance	20.0 MΩ/Km (20 °C)

Wire Data - Thermal properties

Temperature range wire in move from / to (°C)	-5 °C / 70 °C
Temperature range wire fixed from / to (°C)	-30 °C / 70 °C

Classifications

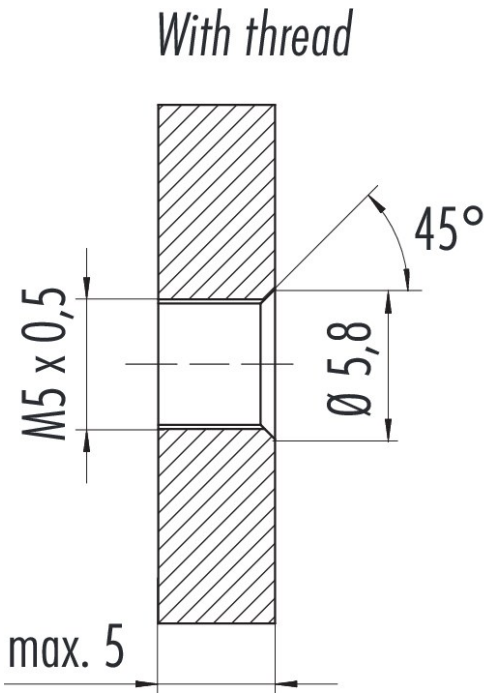
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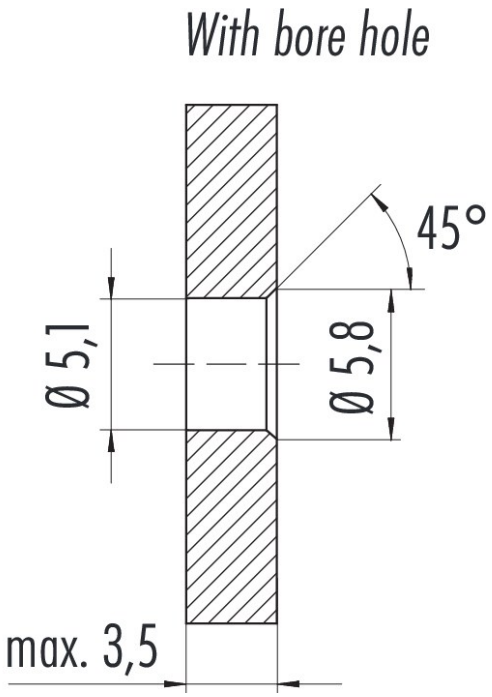
Product data sheet

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Assembly instructions / Panel cut-out





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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".

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 50 cNm).