Product data sheet

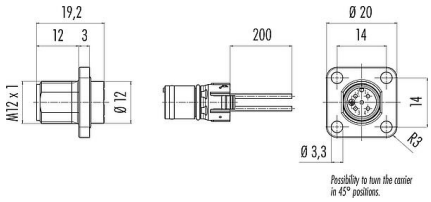
Automation technology - Sensors and actuators

Product description	**M12 Square male panel mount connector, Contacts: 5, unshielded, single wires, IP69k, IP68, IP67, UL 2238, M3 (4x), Front mounting, Square housing 20 mm, Positionable coding alignment**
Area	**M12-A**
Coding	**A-coded**
Series	**763**
Part no.	**99 3443 100 05**

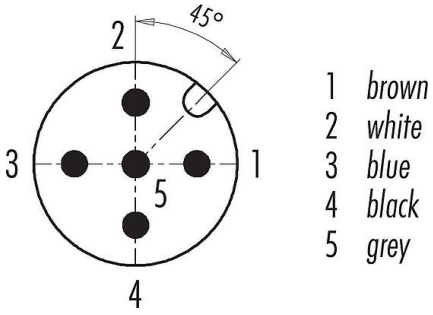
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	99 3443 100 05
Connector design	Square male panel mount connector
Type standard	DIN EN 61076-2-101
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	IP69k, IP68, IP67
Connection cross-section	0.25 mm² / AWG 24
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	12.83
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	60 V
Rated impulse voltage	1500 V
Rated current	4.0 A
Insulation resistance	> 10^8 Ω
Pollution degree	3
Insulating material group	II
EMC compliance	unshielded

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Material

Housing material	Brass nickel-plated / Zinc die-cast nickel-plated
Contact body material	PA
Contact material	CuZn (brass)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	5aa568a4-f666-4c13-888a-cb9ed3b60c9c

Authorization/approvals

Approvals	UL 2238

Assembly instructions

Assembly:

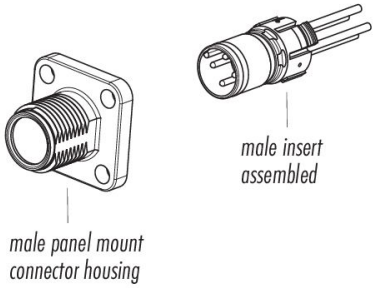
1. Insert the male insert in the desired position into the housing until it snaps into place.

Disassembly:

1. Press detent lever.
2. At the same time press out the contact body from the mating side with a suitable tool, without damaging the contacts.

Note:

Do not pull on the single wires during disassembly!

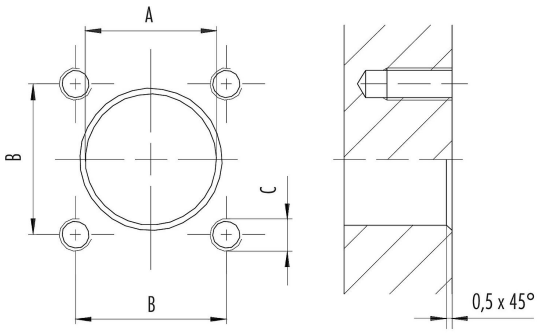


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Assembly instructions / Panel cut-out



Gehäuse/*housing*	A (mm)	B (mm)	C (mm)
Metall/*metal*	12,2	14,0	M3 (4x)
Kunststoff/*plastic*	20,0	20,0	M3 (4x)

Voraussetzungen für Schutzart IP67:

1. Metallgehäuse: Verwendung von Dichtung, Best.-Nr. 16 0959 000
2. Kunststoffgehäuse: Verwendung von Dichtung, Best.-Nr. 16 8091 000
3. Gewinde M3 (4x) als Gewindesacklöcher oder Schraubenköpfe abgedichtet

Requirements for Degree of protection IP67:

1. *Metal housing: Use of sealing, Ordering-No. 16 0959 000*
2. *Plastic housing: Use of sealing, Ordering-No. 16 8091 000*
3. *M3 thread (4x) sealed as a threaded blind holes or screw heads*

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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.

To protect against unintentional opening of the connector, the thread between the housing and the connector head must be secured with a suitable cyanoacrylate adhesive when used in circuits with voltages dangerous to the touch. This does not apply to connectors used in SELV and PELV circuits according to IEC 61140 (EN 61140, VDE 0140-1).

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.

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

The user must take appropriate safety precautions to ensure that the connector cannot be accidentally disconnected. In addition, the user must ensure that the cable is suitably secured.