Product data sheet

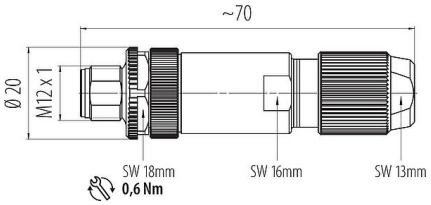
Automation technology - Sensors and actuators

Product description	**M12 Male cable connector, Contacts: 4, 5.0-8.0 mm, shieldable, crimping (Crimp contacts must be ordered separately), IP67, UL 2238**
Area	**M12-A**
Coding	**A-coded**
Series	**713**
Part no.	**99 1433 814 04**

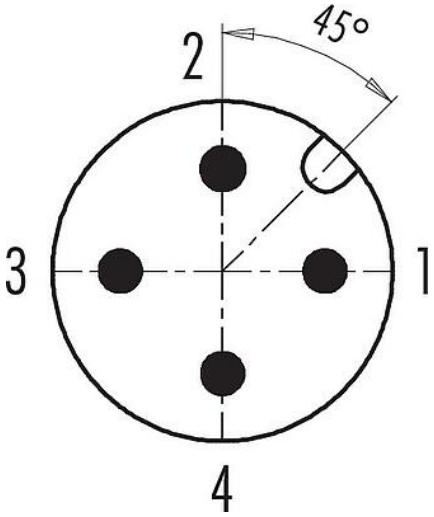
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	99 1433 814 04
Connector design	Male cable connector
Type standard	DIN EN 61076-2-101
Coding	A-coded
Version	Connector pin straight
Connector locking system	screw
Termination	crimping (Crimp contacts must be ordered separately)
Degree of protection	IP67
Connection cross-section	0.34-1.50 mm² / AWG 22-16
Cable outlet	5.0-8.0 mm
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	40.03
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	250 V
Rated impulse voltage	2500 V

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Rated current	4.0 A
Insulation resistance	> 10^8 Ω
Pollution degree	3
Overvoltage category	II
Insulating material group	III
EMC compliance	shieldable
Shield connection	Iris type spring

Material

Housing material	Zinc die-cast nickel-plated
Contact body material	PA
Contact material	CuZn (brass)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	2068c5f0-3983-4e14-acc2-b6a451def5b2

Authorization/approvals

Approvals	UL 2238

Classifications

eCl@ss 11.1	27-44-01-02
ETIM 9.0	EC002635

Declarations of conformity

Low Voltage Directive	EN 60529:1991 | EN 60204-1:2018

Trade-Compliance

Copper (9903.78.01)	0.000221 kg

Product data sheet

Automation technology - Sensors and actuators

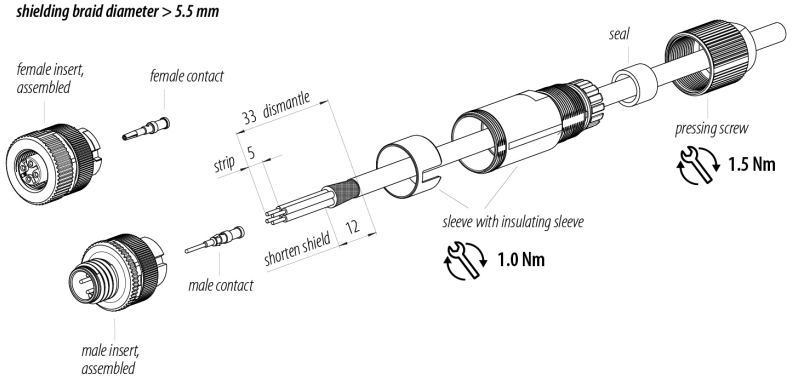
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Assembly instructions

Shielding braid diameter > 5.5 mm

1. *Bead pre-assembled housing to cable (consisting of: assembled sleeve, seal and pressing screw).*
2. *Dismantle cable, strip single wires, shorten shielding braid. (Wrap with copper tape if necessary)*
3. *Insert single wires into contacts and crimp.*
4. *Insert contacts into contact holder and lock in place.*
5. *Screw sleeve to male/female insert.*
6. *Tighten pressing screw.*

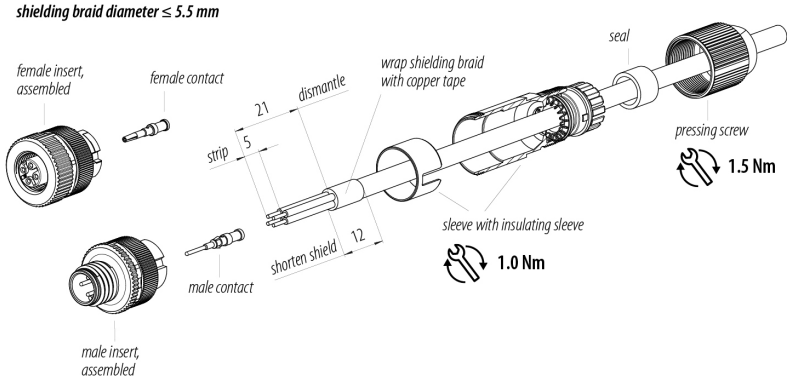
shielding braid diameter > 5.5 mm



Shielding braid diameter ≤ 5.5 mm

1. *Bead pre-assembled housing to cable (consisting of: assembled sleeve, seal and pressing screw).*
2. *Dismantle cable, strip single wires, shorten shielding braid, revert to cable and wrap with copper tape.*
3. *Insert single wires into contacts and crimp.*
4. *Insert contacts into contact holder and lock in place.*
5. *Screw sleeve to male/female insert.*
6. *Tighten pressing screw.*

shielding braid diameter ≤ 5.5 mm



Product data sheet

Automation technology - Sensors and actuators

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Part no.	**99 1433 814 04**

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.

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).