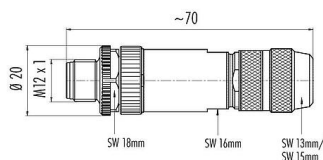


Product description **M12 Male cable connector, Contacts: 4, 5.0-8.0 mm, shieldable, screw clamp, IP67, UL**  
Area **M12-A**  
Part no. **99 1431 814 04**

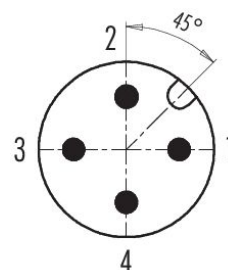
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

## Technical data

### General features

Part no.	<b>99 1431 814 04</b>
Connector design	Male cable connector
Type standard	DIN EN 61076-2-101
Version	Connector pin straight
Connector locking system	screw
Termination	screw clamp
Degree of protection	IP67
Cross-sectional area	max. 0.75 mm <sup>2</sup> / AWG 18
Cable outlet	5.0-8.0 mm
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 100 Mating cycles
Weight (g)	45.83
Customs tariff number	85369010
Country of Origin	DE

### Electrical parameters

Rated voltage	250 V
Rated impulse voltage	2500 V
Rated current	4 A (3 A UL)
Insulation resistance	> 10 <sup>8</sup> Ω
Pollution degree	3
Overtoltage category	II

# Product data sheet

## Automation technology - Sensors and actuators



Product description	<b>M12 Male cable connector, Contacts: 4, 5.0-8.0 mm, shieldable, screw clamp, IP67, UL</b>
Area	<b>M12-A</b>
Part no.	<b>99 1431 814 04</b>

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	e5fa4c52-02d0-43e2-a25e-5068615ed56a

### Authorization/approvals

Approvals	UL
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### Classifications

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

### Declarations of conformity

Low Voltage Directive	2014/35/EU (EN 60204-1:2018;EN 60529:1991)
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Product description **M12 Male cable connector, Contacts: 4, 5.0-8.0 mm, shieldable, screw clamp, IP67, UL**

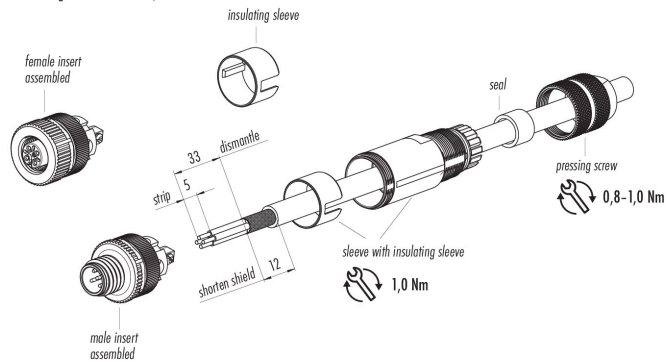
Area **M12-A**  
Part no. **99 1431 814 04**

## Assembly instructions

*Shielding braid diameter > 5,5 mm (independent of cable-Ø)*

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. Screw on single wires: 4, 5 pole: 0.4 Nm.
4. Screw sleeve to male/female insert.
5. Tighten pressing screw.

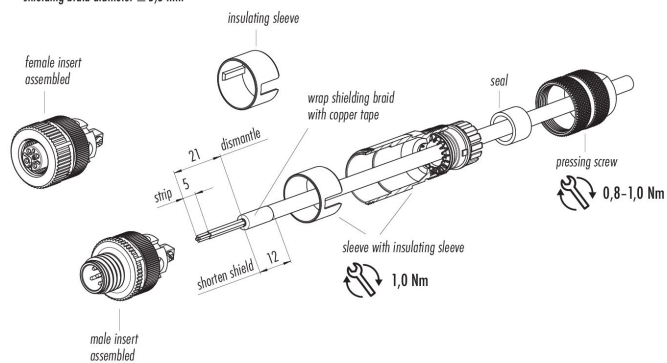
*shielding braid diameter > 5,5 mm*



*Shielding braid diameter ≤ 5,5 mm (independent of cable-Ø)*

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. Screw on single wires: 4, 5 pole: 0.4 Nm.
4. Screw sleeve to male/female insert.
5. Tighten pressing screw.

*shielding braid diameter ≤ 5,5 mm*



Product description	<b>M12 Male cable connector, Contacts: 4, 5.0-8.0 mm, shieldable, screw clamp, IP67, UL</b>
Area	<b>M12-A</b>
Part no.	<b>99 1431 814 04</b>

## 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.

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.