

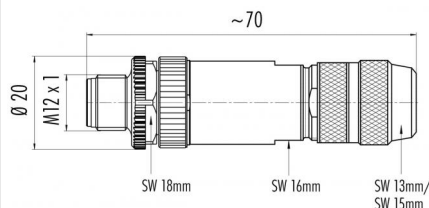
Product description M12-A male cable connector, Contacts: 4, 5.0 - 8.0 mm, shieldable, screw clamp, IP67, UL

Area M12-A series 713
Order number 99 1431 814 04

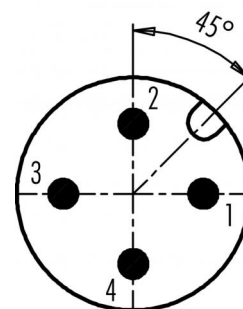
Illustration



Scale drawing



Contact arrangement (Plug-in side)



You can find the component part drawing and assembly instructions on the next page.

Technical data

General values

Connector design	male cable connector
Connector locking system	screw
Termination	screw clamp
Wire gauge (mm)	max. 0.75 mm ²
Wire gauge (AWG)	max. AWG 18
Cable outlet	5.0 - 8.0 mm
Upper limit temperature	85 °C
Lower limit temperature	-40 °C
Customs tariff number	85369010

Electrical values

Rated current (40 °C)	4 A (3 A UL)
Rated voltage	250 V
Rated impulse voltage	2500 V
Pollution degree	3
Overvoltage category	II
Insulating material group	III
Insulation resistance	> 10 ⁸ Ω
EMC compliance	shieldable
Degree of protection	IP67
Mechanical operation	> 100 Mating cycles

Material

Contact material	CuZn (brass)
Contact plating	Au (gold)
Contact body material	PA
Housing material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)

authorization/approvals

Approval 1	UL
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Component part drawing

* Teile vormontiert

Assembly instructions / Panel cut-out

Schirmdurchmesser >5,5 mm

33 abmanteln

A abisolieren

Schirm kürzen 12

Festdrehen mit ≥ 100 cNm

Schirmdurchmesser $\leq 5,5$ mm

21 abmanteln

A abisolieren

Schirm kürzen 12

Schirm auf Kabelmantel umschlagen und mit Kupfer-Tape umwickeln

Öffnungswerkzeug für Käfigzugfeder-version

Schirmdurchmesser >5,5 mm

- Gehäuse auf Kabel auffädeln.
- Abmanteln, abisolieren, Schirm kürzen.
- Litzen anschließen (schrauben).
- 4 Kontakte bestücken.
- Gehäuse mit Stecker- bzw. Buchseneinsatz verschrauben und Druckschraube festdrehen.

Schirmdurchmesser $\leq 5,5$ mm

- Gehäuse auf Kabel auffädeln.
- Abmanteln, abisolieren, Schirm kürzen, Schirm auf Kabelmantel umschlagen und mit Kupfer-Tape umwickeln.
- Litzen anschließen (schrauben).
- 4 Kontakte bestücken.
- Gehäuse mit Stecker- bzw. Buchseneinsatz verschrauben und Druckschraube festdrehen.

	Schraubklemmversion	Käfigzugfeder-version
Maß A/mm	5	7



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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.

Plug connectors with enclosure protection IP 67 and IP 68 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. 50 cNm).