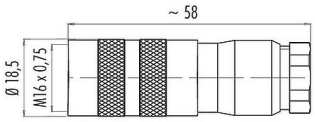
# Product data sheet
## Miniature connectors

| | |
|---|---|
| Product description | **M16 Female cable connector, Contacts: 12 (12-a), 6.0-8.0 mm, shieldable, solder, IP67, UL 2238** |
| Area | **M16 IP67** |
| Series | **423** |
| Part no. | **99 5630 00 12** |

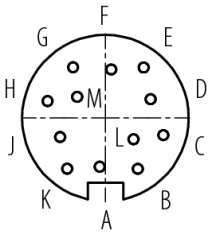
### Illustration



### Scale drawing




### Contact arrangement (Plug-in side)




**You can find the assembly instructions on the next page.**

## Technical data

### General features

| | |
|---|---|
| Part no. | 99 5630 00 12 |
| Connector design | Female cable connector |
| Type standard | DIN EN 61076-2-106 |
| Version | Connector socket straight |
| Connector locking system | screw |
| Termination | solder |
| Degree of protection | IP67 |
| Connection cross-section | max. 0.25 mm² / AWG 24 |
| Cable outlet | 6.0-8.0 mm |
| Temperature range from/to | -30 °C / 95 °C |
| Mechanical operation | > 500 Mating cycles |
| Weight (g) | 48.83 |
| Customs tariff number | 85369010 |
| Country of Origin | DE |

### Electrical parameters

| | |
|---|---|
| Rated voltage | 60 V |
| Rated impulse voltage | 500 V |
| Rated current | 3,0 A |
| Insulation resistance | ≥ $10^{10}$ Ω |
| Pollution degree | 1 |
| Overvoltage category | I |
| Insulating material group | III |
| EMC compliance | shieldable |
| Shield connection | cable clamp |

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**Product data sheet**

# Miniature connectors

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| Area | **M16 IP67** |
| Series | **423** |
| Part no. | **99 5630 00 12** |

## Material

| | |
|---|---|
| Housing material | CuZn (Brass nickel plated) |
| Contact body material | PBT (UL94 V-0) |
| Contact material | CuSn (bronze) |
| Contact plating | Au (gold) |
| REACH SVHC | CAS 7439-92-1 (Lead) |
| SCIP number | c78fd24b-a4df-45c3-bc01-4d4ccfc2ac16 |

## 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) | 0.000321 kg |

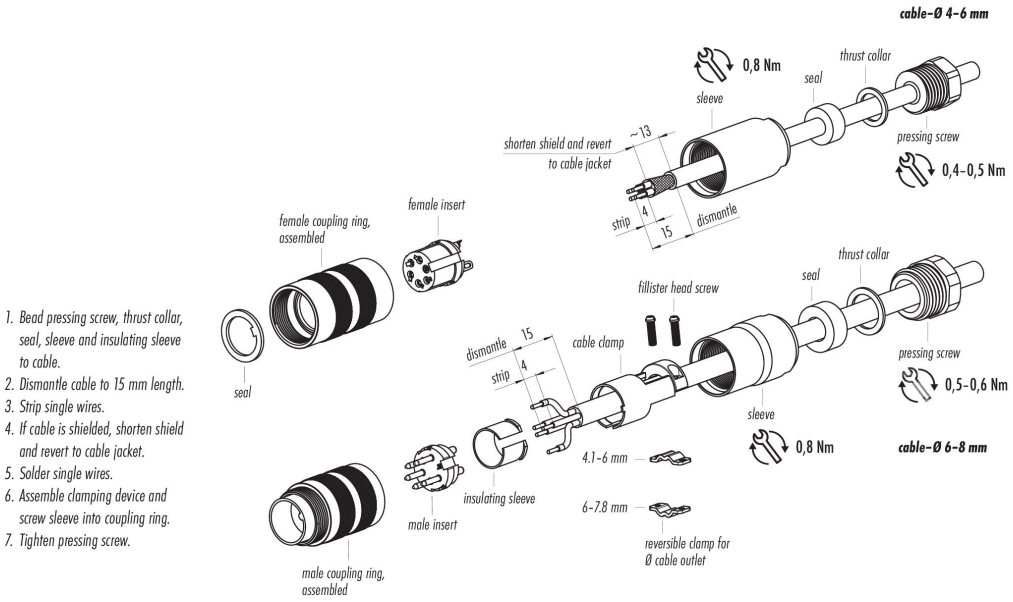
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# Product data sheet
## Miniature connectors

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| Product description | **M16 Female cable connector, Contacts: 12 (12-a), 6.0-8.0 mm, shieldable, solder, IP67, UL 2238** |
| Area | **M16 IP67** |
| Series | **423** |
| Part no. | **99 5630 00 12** |

## Assembly instructions




1. Bead pressing screw, thrust collar, seal, sleeve and insulating sleeve to cable.
2. Dismantle cable to 15 mm length.
3. Strip single wires.
4. If cable is shielded, shorten shield and revert to cable jacket.
5. Solder single wires.
6. Assemble clamping device and screw sleeve into coupling ring.
7. Tighten pressing screw.

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**Product data sheet**
# Miniature connectors

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| Area | **M16 IP67** |
| Series | **423** |
| Part no. | **99 5630 00 12** |

## 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).



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# DECLARATION FROM THE MANUFACTURER

**For part no.: 99 5630 00 12** **15/06/2026**

**With regard to the**

**Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.**

With the REACH regulation, the EU has created a uniform system for the Registration, Evaluation, Authorisation and restriction of CHemicals – or REACH. The purpose of this regulation is to ensure a high level of protection of human health and the environment.

Franz Binder GmbH & Co. Elektrische Bauelemente KG hereby confirms that it acts as a downstream user (producer of products) according to the aforementioned regulation.

We obtain all raw materials and/or preparations, from which the connectors are made, from suppliers who have already registered or pre-registered all substances, including those present in the preparations. The products supplied by the company are not subject to registration.

Franz Binder GmbH & Co. Elektrische Bauelemente KG does not use any of the substances listed in Annex XVII of the REACH Regulation in its products in concentrations exceeding the limits falling within the scope of the Regulation.

With regard to Article 33(1) of the REACH regulation, Franz Binder GmbH & Co. Elektrische Bauelemente KG complies with its information obligations:

An up-to-date candidate list (candidate list of substances of very high concern for authorisation, as of 04/02/2026 see: https://echa.europa.eu/de/candidate-list-table) in accordance with Article 59 (1, 10) of the regulation (EC) No 1907/2006 (REACH) has been published.
The aforementioned article includes the following substances from the up-to-date candidate list in concentrations of more than 0,1 percent by mass:

- CAS 7439-92-1 (Lead)

Please refer any questions to our Product Compliance Team:

Franz Binder GmbH & Co.
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# DECLARATION FROM THE MANUFACTURER

**For part no.: 99 5630 00 12** **15/06/2026**

**With regard to the**

**COMMISSION DELEGATED DIRECTIVE (EU) 2015/863**
**of 31 March 2015**
**amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances**

Directive 2011/65/EU stipulates provisions on the restriction of the use of hazardous substances in electrical and electronic equipment (EEE) with a view to contributing to the protection of human health and the environment, including the environmentally sound recovery and disposal of EEE waste.

ANNEX II
Restricted substances referred to in Article 4(1) and maximum concentration values tolerated by weight in homogeneous materials

Lead (0,1%) mercury (0,1%) cadmium (0,01%) hexavalent chromium (0,1%) polybrominated biphenyls (PBB) (0,1%) polybrominated diphenyl ethers (PBDE) (0,1%) bis(2-ethylhexyl) phthalate (DEHP) (0,1%) butyl benzyl phthalate (BBP) (0,1%) dibutyl phthalate (DBP) (0,1%) diisobutyl phthalate (DIBP) (0,1%)

Franz Binder GmbH & Co. Elektrische Bauelemente KG hereby confirms that it complies with all standard articles of the aforementioned Directive. Our products do not contain any of the specified prohibited substances above the maximum permitted concentrations specified therein, taking into account the exemptions in Annex III of Directive 2011/65/EU.

- Complies with RoHS III with exemption 6c

Please refer any questions to our Product Compliance Team:

Product-Compliance@binder-connector.de

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# MANUFACTURER'S DECLARATION

**For part no.: 99 5630 00 12** **15/06/2026**

**with regard to**

**Declaration of compliance with China RoHS – Components**

We herewith declare the compliance of this product with the Chinese marking requirements.
This product can be recycled and used safely during its environmentally friendly use period of 50 years. These articles will be sold as components only for manufacturing. According to the Electronic Industry Standard SJ/T 11364-2014 it needs not to be marked with Environmentally Friendly Use Period (EFUP) label. This product should be recycled after its environmental protection use period has expired because it may contain substances or elements as shown in the following table:

| | Hazardous Substance | | | | | |
|---|---|---|---|---|---|---|
| Part Name | Lead (Pb) | Mercury (Hg) | Cadmium (Cd) | Hexavalent Chromium (Cr(VI)) | Polybrominated biphenyls (PBB) | Polybrominated diphenyl ethers (PBDE) |
| Connectors | X | O | O | O | O | O |

This table is prepared in accordance with the provisions of SJ/T 11364.

O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572

X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572

The table shows where these substances may be found in this Electrical and Electronic Product.

Please refer any questions to our Product Compliance Team:

Product-Compliance@binder-connector.de

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# CERTIFICATE OF COMPLIANCE

| | |
|---|---|
| **Certificate Number** | E302391 |
| **Report Reference** | E302391-2011-09-08 |
| **Date** | 2022-November-09 |

**Issued to:** Franz Binder GmbH & Co. Elektrische Bauelemente KG
Roetelstrasse 27
Neckarsulm 74172 DE

**This is to certify that representative samples of** CABLE ASSEMBLIES AND FITTINGS FOR INDUSTRIAL CONTROL AND SIGNAL DISTRIBUTION - COMPONENT

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**Standard(s) for Safety:** UL 2238, Standard for Cable Assemblies and Fittings for Industrial Control and Signal Distribution
C22.2 No. 182.3, Special Use Attachment Plugs, Receptacles and Connectors

**Additional Information:** See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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# CERTIFICATE OF COMPLIANCE

| | |
|---|---|
| **Certificate Number** | E302391 |
| **Report Reference** | E302391-2011-09-08 |
| **Date** | 2022-November-09 |

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Cable Assemblies, Series 423/425/723 as follows:

Female cable connector with cable clamp, solder, shieldable, size: 4 – 6mm, 6 - 8mm.
Female cable connector with cable clamp, screw clamp, size: 4 – 6mm, 6 - 8mm.
Female cable connector with cable clamp, crimp, size: 4 – 6mm, 6 - 8mm.
Female cable connector with cable clamp, crimp, short version size: 4 - 8mm.
Female angled, crimp, size: 4 – 6mm, 6 - 8mm.
Female cable connector, solder, short version size: 4-8 mm.
Female cable connector with shielding ring, solder, size: 4 - 6mm, 6 - 8mm, 8-10mm.
Female angled connector, solder, shieldable size: 4 - 6mm, 6 - 8mm.
Female cable connector with cable clamp, solder, short version, shieldable, size: 2-19 pole.
Female cable connector with cable clamp, crimp, short version, shieldable, size: 4-8 pole.
Female socket solder connector, size: 2-24 pole.
Female socket crimp connector, size: 4-8 pole.
Female socket crimp connector, front fastened, size: 4-8 pole.
Female socket, solder connector front fastened, size: 2-24 pole.
Female socket, dip solder, front fastened, size: 2-24 pole.
Female socket, rectangular, solder, size: 2-19 pole.
Female socket, rectangular, crimp, size: 4-8 pole.
Female socket, rectangular, with single wires, size: 4-8 pole.

Male angled connector, solder, shieldable size: 4 - 6mm, 6 - 8mm.
Male cable connector with cable clamp, solder, shieldable size: 4 - 6mm, 6 - 8mm.
Male cable connector with cable clamp, screw clamp, size: 4 – 6mm, 6 - 8mm.
Male cable connector with cable clamp, crimp, size: 4 – 6mm, 6 - 8mm.
Male cable connector with cable clamp, crimp, short version size: 4 - 8mm.
Male angled, crimp, size: 4 – 6mm, 6 - 8mm.
Male cable connector, solder, short version size: 4-8 mm.
Male cable connector with shielding ring, solder, size: 4 - 6mm, 6 - 8mm, 8-10mm.
Male cable connector with cable clamp, solder, short version, shieldable, size: 2-19 pole.
Male cable connector with cable clamp, crimp, short version, shieldable, size: 4-5 pole.
Male socket solder connector, size: 2-24 pole.
Male socket crimp connector, size: 4-8 pole.
Male socket crimp connector, front fastened, size: 4-8 pole.
Male socket, solder connector front fastened, size: 2-24 pole.
Male socket, dip solder, front fastened, size: 2-24 pole.
Male socket, rectangular, solder, size: 2-19 pole.
Male socket, rectangular, crimp, size: 4-8 pole.
Male socket, rectangular, with single wires, size: 4-8 pole.

Bruce Mahrenholz, Director North American Certification Program

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# EU DECLARATION OF CONFORMITY

| | |
|---|---|
| Manufacturer | **Franz Binder GmbH & Co.<br>Elektrische Bauelemente KG<br>Rötelstraße 27<br>D-74172 Neckarsulm** |
| Part no. | **99 5630 00 12** |
| Product | |
| Series | **M16 IP67** |

This product complies with the requirements of the following European Directive:
Directive 2014/35/EU of the European Parliament and of the council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (recast).
The following harmonized standards have been applied for conformity assessment:

EN 60529:1991 | EN 60204-1:2018

References to standards apply to references to their amendments, if these amendments are listed to the respective directives in the Official Journal of the European Union.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Neckarsulm, 2025-03-05

i.V. Markus Grimm
Head of Quality

Franz Binder GmbH & Co.
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Date: 15.06.2026

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# UKCA DECLARATION OF CONFORMITY

| | |
|---|---|
| Manufacturer | **Franz Binder GmbH & Co.**<br>**Elektrische Bauelemente KG**<br>**Rötelstraße 27**<br>**D-74172 Neckarsulm** |
| Object of the declaration | **Connector (COC)** |
| Product | **99 5630 00 12** |

The object of the declaration described above is in conformity with the relevant UK-Regulations and UK-Guidelines:

**The Electrical Equipment (Safety) Regulations 2016**
STATUTORY INSTRUMENTS
2016 No. 1101
CONSUMER PROTECTION
HEALTH AND SAFETY

References of standards and/ or technical specifications applied for this declaration of conformity, or parts thereof:

**2016 No. 1101:** **EN 61984:2009** *)

*) This standard is currently not listed in the assigned directive.

This declaration is issued under the sole responsibility of the manufacturer.

Neckarsulm, 2025-03-05

i.V. Markus Grimm
Head of Quality

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