

# Product data sheet

## Miniature connectors

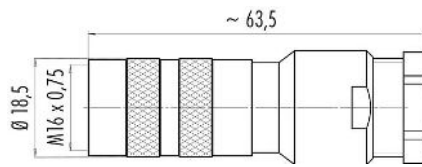


Product description	M16 Female cable connector, Contacts: 12 (12-a), 8.0-10.0 mm, shieldable, solder, IP67, UL
Area	M16 IP67 series 423
Part no.	99 5830 15 12

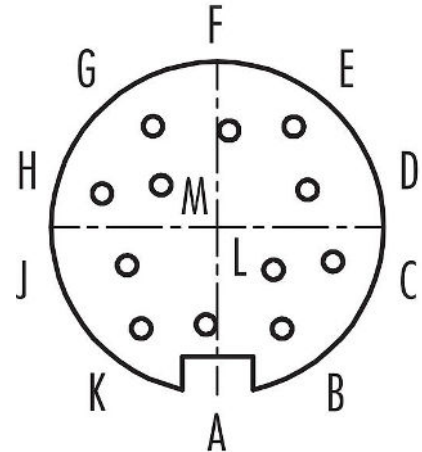
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

### Technical data

#### General features

Part no.	99 5830 15 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
Cross-sectional area	max. 0.25 mm <sup>2</sup> / AWG 24
Cable outlet	8.0-10.0 mm
Temperature range from/to	-30 °C / 95 °C
Mechanical operation	> 500 Mating cycles
Weight (g)	54.36
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 <sup>10</sup> Ω
Pollution degree	1
Overvoltage category	I
Insulating material group	III
EMC compliance	shieldable

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Shield connection	Shielding ring
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### 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	7e0d9aef-649f-49c4-b7ff-e0fb2774b926

### 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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### Assembly instructions

The diagram illustrates the assembly of the M16 female cable connector. It shows the following components and their assembly order:

- PG 11:** Bead pressing screw, pinch ring, seal, distance shell, and shield clamping ring are assembled onto the cable.
- PG 9:** The shield clamping ring and shielding ring are pushed together, and the projecting shielding braid is cut off.
- PG 7:** The distance shell is snapped onto the wires, and the shield clamping ring and shielding ring are pushed together.

**Assembly Instructions:**

1. Bead pressing screw, pinch ring, seal, distance shell and shield clamping ring on cable.
2. Dismantle cable to 20 mm length.
3. Strip wires, widen shield and bead shielding ring.
4. Solder wires, snap distance shell, push the shield clamping ring and shielding ring together and cut off projecting shielding braid.
5. Assemble remaining parts.

**Technical Specifications:**

- PG 11:**
  - cable-Ø 8-10 mm: 0,8 Nm
  - cable-Ø 8 mm: 0,8 Nm
  - cable-Ø 10 mm: 1,0 Nm
- PG 9:**
  - cable-Ø 6-8 mm: 0,7 Nm
  - cable-Ø 8 mm: 0,9 Nm
- PG 7:**
  - cable-Ø 4-6 mm: 0,7 Nm
  - cable-Ø 6 mm: 0,9 Nm

**Dimensions:** 20 mm (cable length), 4 mm (strip length).

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### **General Disclaim Notice**

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.

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. 50 cNm).