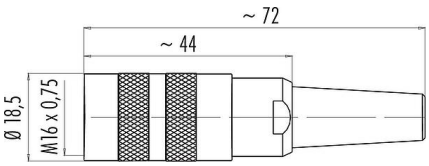
Product data sheet
Miniature connectors

Product description	**M16 Female cable connector, Contacts: 16, 6.0-8.0 mm, shieldable, solder, IP40**
Area	**M16 IP40**
Series	**581**
Part no.	**99 2038 02 16**

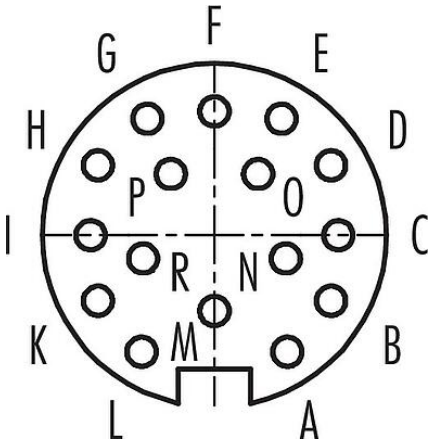
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	99 2038 02 16
Connector design	Female cable connector
Version	Connector socket straight
Connector locking system	screw
Termination	solder
Degree of protection	IP40
Connection cross-section	max. 0.25 mm² / AWG 24
Cable outlet	6.0-8.0 mm
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 500 Mating cycles
Weight (g)	28.63
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

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Shield connection	Solder lug

Material

Housing material	Zinc die-cast 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	f875732e-7638-44b6-887c-383c0aa01ac1

Classifications

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

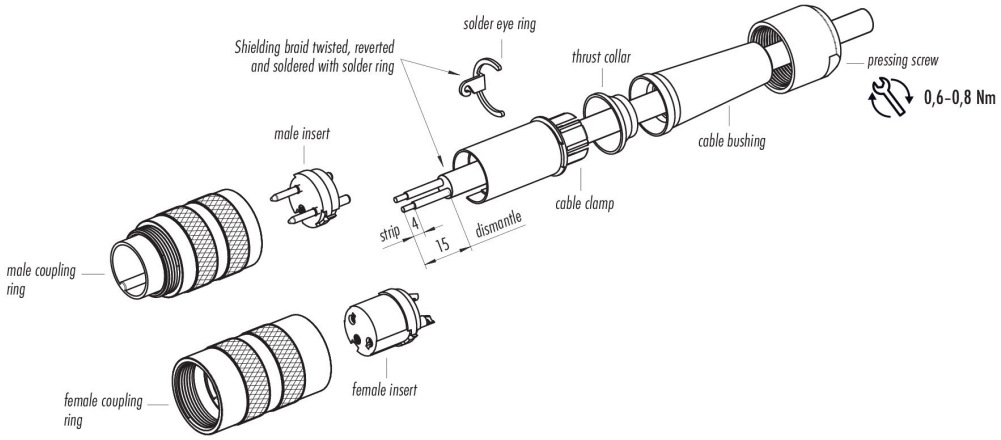
Declarations of conformity

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

Trade-Compliance

Copper (9903.78.01)	0.000221 kg

Assembly instructions



Date: 03.10.2026

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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.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

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).