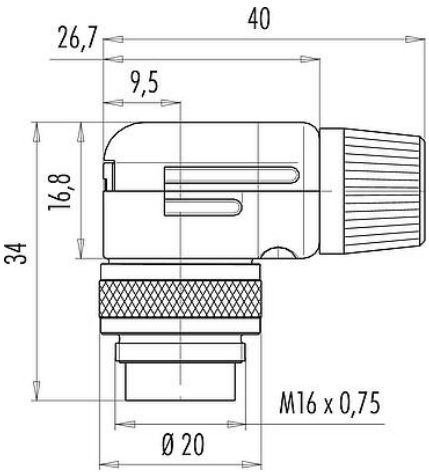
Product data sheet
Miniature connectors

Product description	**M16 Male angled connector, Contacts: 19, 6.0-8.0 mm, shieldable, solder, IP40**
Area	**M16 IP40**
Series	**682**
Part no.	**99 0163 12 19**

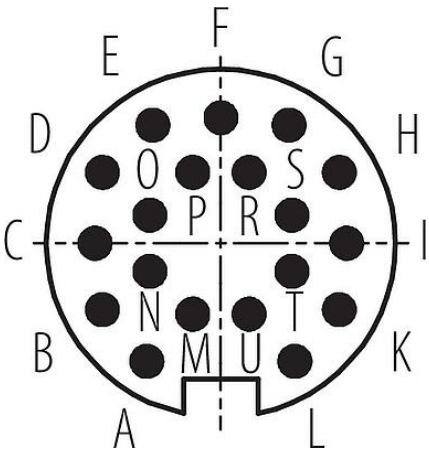
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	99 0163 12 19
Connector design	Male angled connector
Type standard	DIN EN 61076-2-106
Version	Connector pin angled
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
Twistability	90° (4 coding options)
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 1000 Mating cycles
Weight (g)	32.61
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

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Overvoltage category	I
Insulating material group	III
EMC compliance	shieldable
Shield connection	cable clamp

Material

Housing material	Zinc die-cast nickel-plated
Contact body material	PBT (UL94 V-0)
Contact material	CuZn (brass)
Contact plating	Au (gold)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	4e71bd22-07dd-49b2-b5e1-9181daac9fe7

Classifications

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

Declarations of conformity

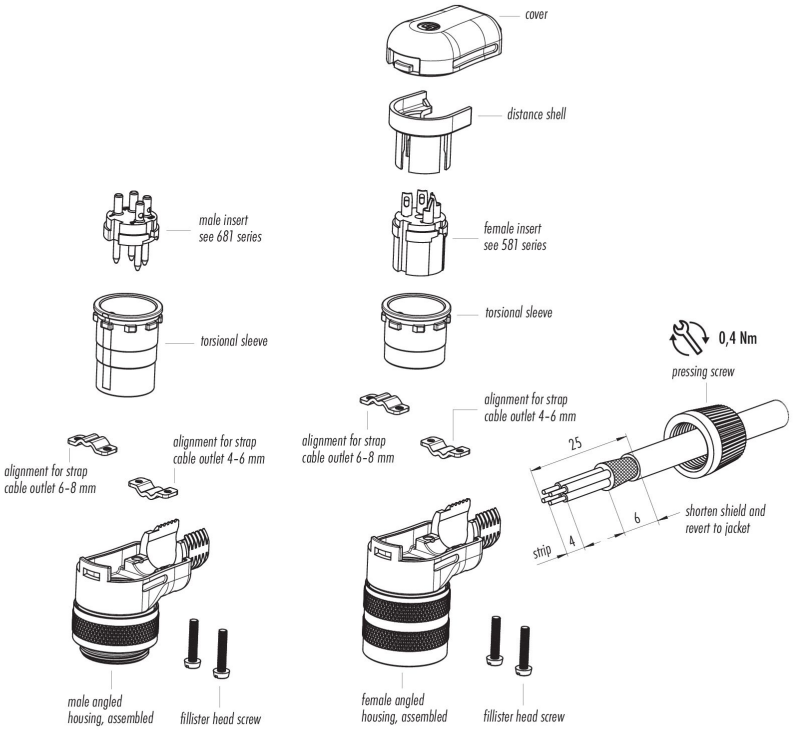
Low Voltage Directive	EN 60529:1991 | EN 60204-1:2018

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Assembly instructions

1. Bead pressing screw to cable.
2. Dismantle cable to 25 mm length.
3. Strip single wires, shorten shield and fold over jacket.
4. Solder single wires.
5. Mount torsional sleeve, contact insert and distance shell.
6. Fold cable over and mount strap (with cable outlet 6-8 mm rotated by 180°).
7. Mount cover and tighten pressing screw.



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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).