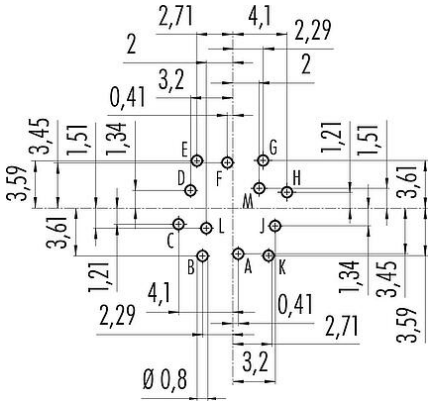
Product data sheet
Miniature connectors

Product description	**M16 Male panel mount connector, Contacts: 12 (12-a), unshielded, THT, IP40, M18x0,75, Rear mounting**
Area	**M16 IP40**
Series	**680**
Part no.	**09 0331 90 12**

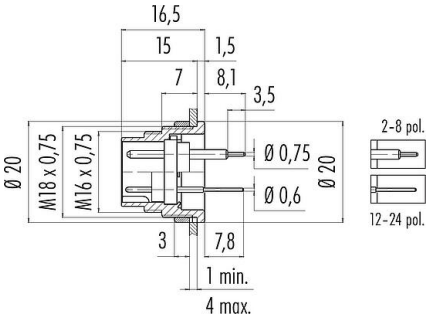
Illustration (may vary)



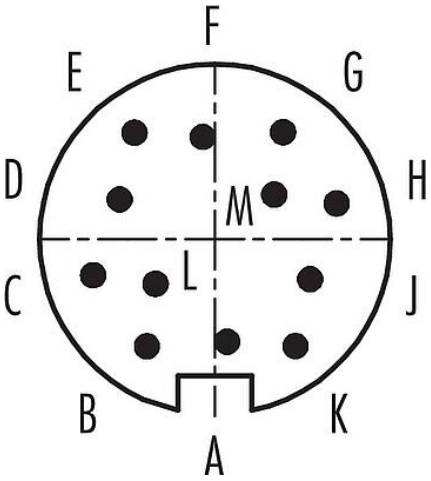
Conductor layout



Scale drawing



Contact arrangement (Plug-in side)



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

Technical data

General features

Part no.	09 0331 90 12
Connector design	Male panel mount connector
Type standard	DIN EN 61076-2-106
Version	Connector pin straight
Connector locking system	screw
Termination	THT

Product data sheet

Miniature connectors

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Area	**M16 IP40**
Series	**680**
Part no.	**09 0331 90 12**

Degree of protection	IP40
Temperature range from/to	-40 °C / 85 °C
Mechanical operation	> 500 Mating cycles
Weight (g)	11.47
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	unshielded

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	80615390-8a00-491b-92a8-20022eb546b4

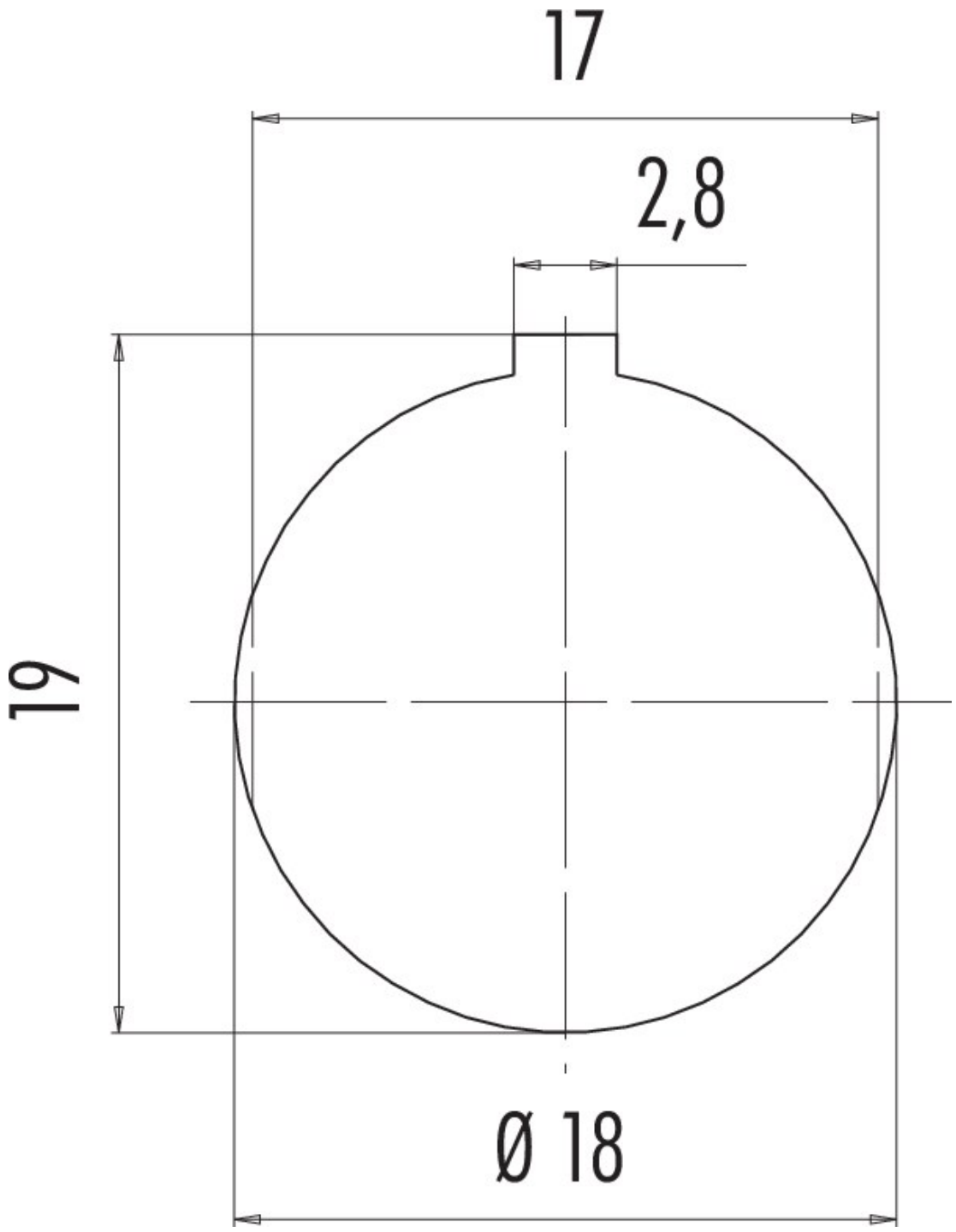
Classifications

eCl@ss 11.1	27-44-01-09
ETIM 9.0	EC003569

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Miniature connectors

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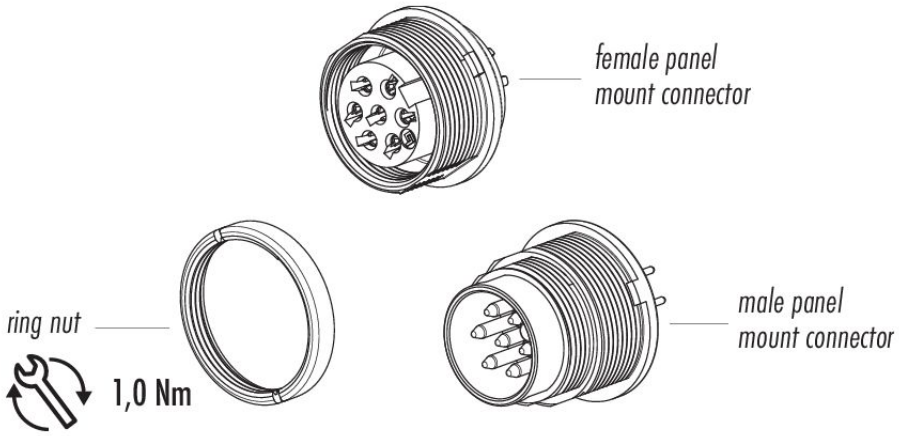
Assembly instructions / Panel cut-out



Product data sheet
Miniature connectors

Product description	**M16 Male panel mount connector, Contacts: 12 (12-a), unshielded, THT, IP40, M18x0,75, Rear mounting**
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Component part drawing



Product data sheet
Miniature connectors

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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.

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).