Product data sheet

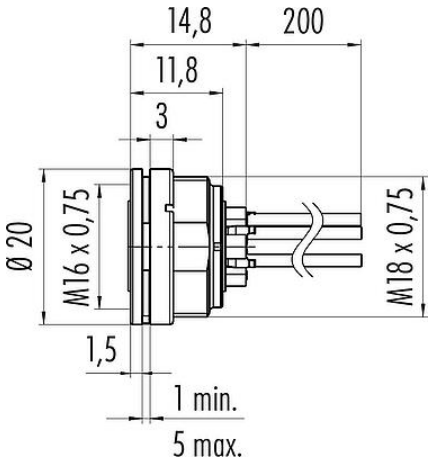
Miniature connectors

Product description	**M16 Female panel mount connector, Contacts: 5 (05-a), unshielded, single wires, IP40, M18x0,75, Front mounting**
Area	**M16 IP40**
Series	**680**
Part no.	**09 0316 702 05**

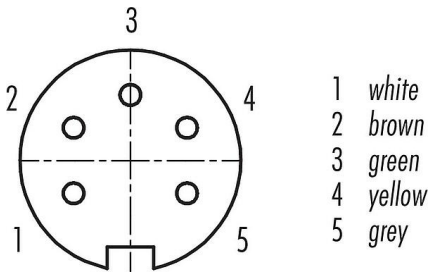
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	09 0316 702 05
Connector design	Female panel mount connector
Type standard	DIN EN 61076-2-106
Wire length	0.2 m (Standard 0.2 m. Other lengths are available on request).
Version	Connector socket straight
Connector locking system	screw
Termination	single wires
Degree of protection	IP40
Connection cross-section	AWG 22
Temperature range from/to	-30 °C / 85 °C
Mechanical operation	> 500 Mating cycles
Weight (g)	15.10
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	250 V
Rated impulse voltage	1500 V
Rated current	5.0 A
Insulation resistance	≥ $10^{1^{0}}$ Ω
Pollution degree	1
Overvoltage category	I
Insulating material group	II

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EMC compliance	unshielded

Material

Housing material	Zinc die-cast nickel-plated
Contact body material	PBT (UL94 V-0)
Contact material	CuSn (bronze)
Contact plating	Ag (silver)
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	89ef0793-6e9c-40da-af62-eab82e9f0769

Wire Data - Structure of the wire

Cross section (mm²)	5 x 0.34 mm²
Cross section (AWG)	5 x AWG 22
Wire diameter	1,65 mm
Wire colors	brown white green yellow grey
Sheath material	PVC
Wire material	Cu (tinned)
Wire structure	7 x 0.254 mm

Wire Data - Electrical properties

Rated voltage	300 V
Rated impulse voltage	3000 V
Insulation resistance	20.0 MΩ/Km (20 °C)

Wire Data - Thermal properties

Temperature range wire in move from / to (°C)	-10 °C / 105 °C
Temperature range wire fixed from / to (°C)	-40 °C / 105 °C

Classifications

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

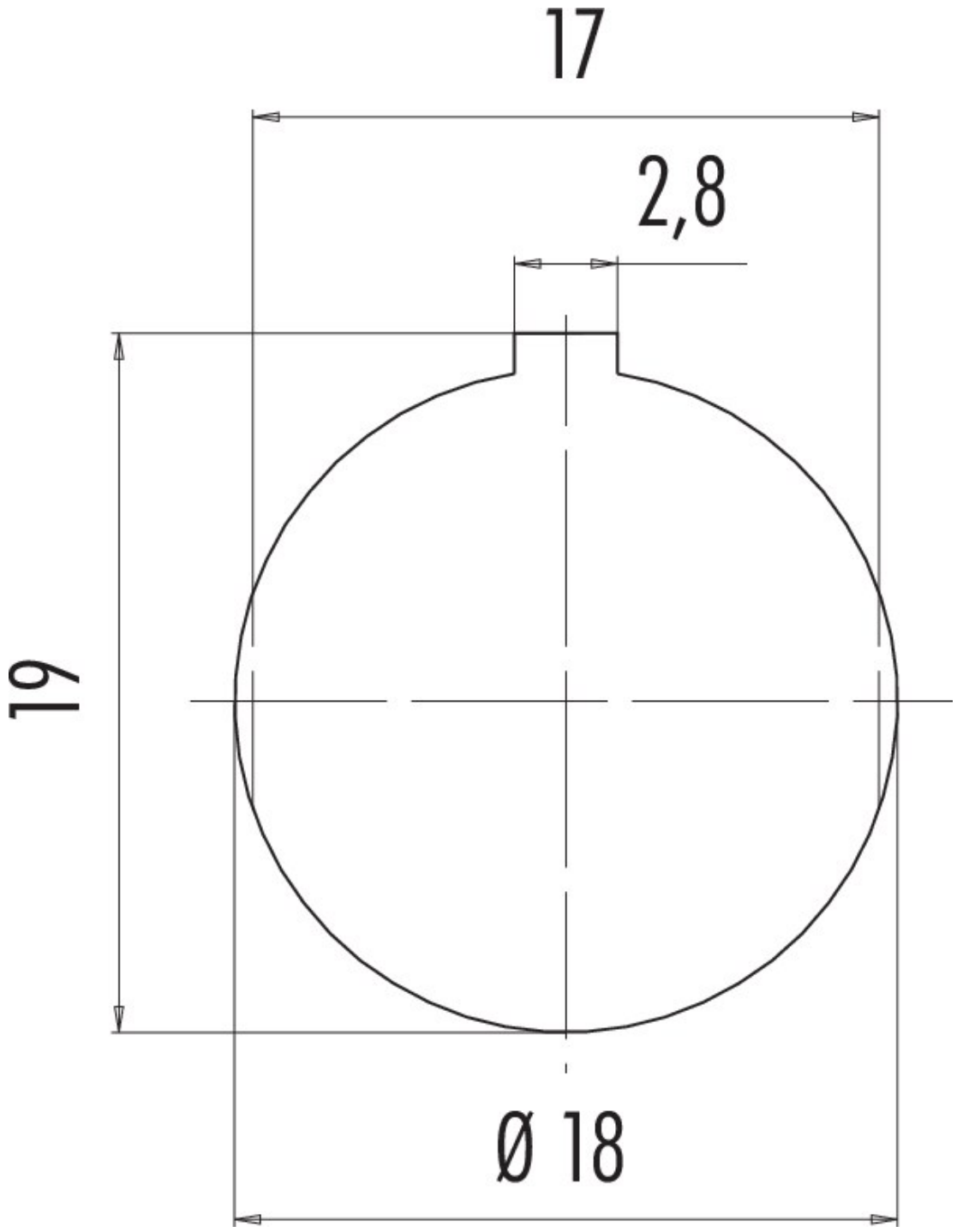
Trade-Compliance

Copper (9903.78.01)	0.003482 kg

Product data sheet
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Assembly instructions / Panel cut-out



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).