**Product data sheet**

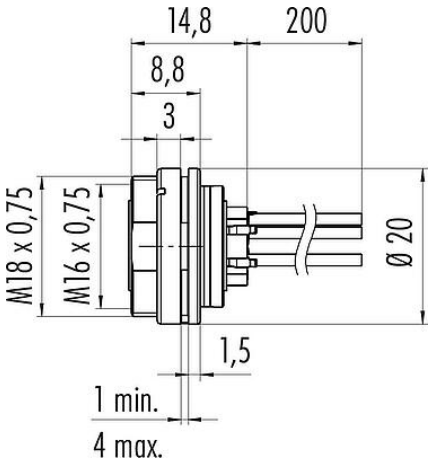
# Miniature connectors

| | |
|---|---|
| Product description | **M16 Female panel mount connector, Contacts: 4 (04-a), unshielded, single wires, IP40, M18x0,75, Rear mounting** |
| Area | **M16 IP40** |
| Series | **680** |
| Part no. | **09 0312 782 04** |

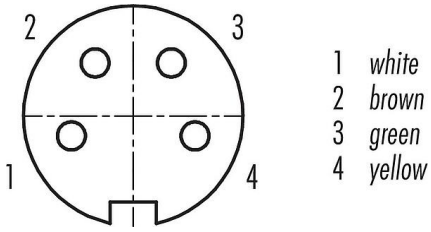
## Illustration (may vary)



## Scale drawing




## Contact arrangement (Plug-in side)




**You can find the assembly instructions on the next page.**

## Technical data

### General features

| | |
|---|---|
| Part no. | 09 0312 782 04 |
| 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) | 13.60 |
| 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 | ≥ $10^{10}$ Ω |
| Pollution degree | 1 |
| Overvoltage category | I |
| Insulating material group | II |

**Product data sheet**

# Miniature connectors

| | |
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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 | 0ecc9dc3-5707-4595-a177-21cde3ca2347 |

## Wire Data - Structure of the wire

| | |
|---|---|
| Cross section (mm²) | 4 x 0.34 mm² |
| Cross section (AWG) | 4 x AWG 22 |
| Wire diameter | 1,65 mm |
| Wire colors | brown<br>white<br>green<br>yellow |
| 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 |

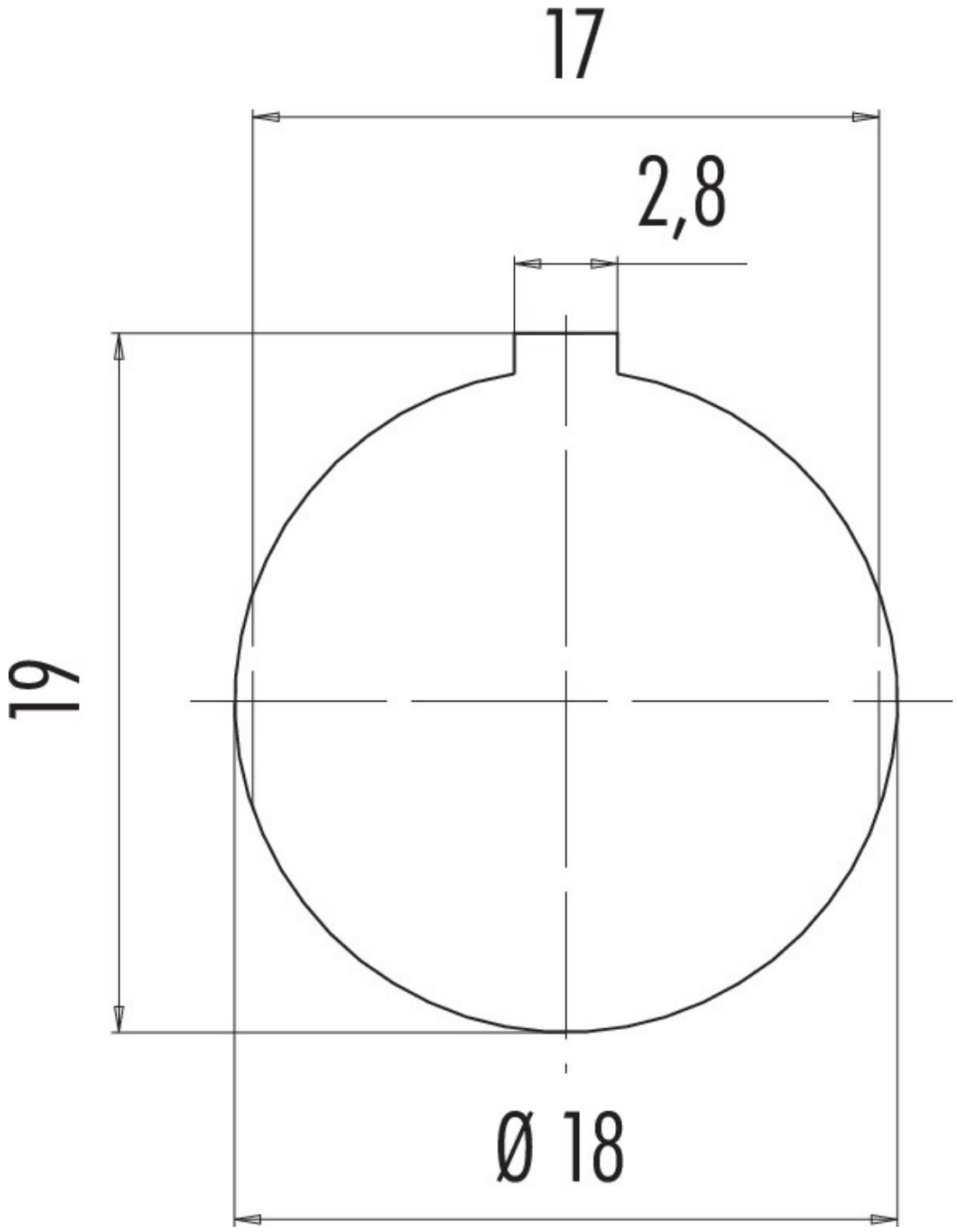
## Trade-Compliance

| | |
|---|---|
| Copper (9903.78.01) | 0.002785 kg |

**Product data sheet**
# Miniature connectors

| | |
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| Part no. | **09 0312 782 04** |

## Assembly instructions / Panel cut-out



**Product data sheet**
# Miniature connectors

| | |
|---|---|
| Product description | **M16 Female panel mount connector, Contacts: 4 (04-a), unshielded, single wires, IP40, M18x0,75, Rear mounting** |
| Area | **M16 IP40** |
| Series | **680** |
| Part no. | **09 0312 782 04** |

## 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).