**Product data sheet**

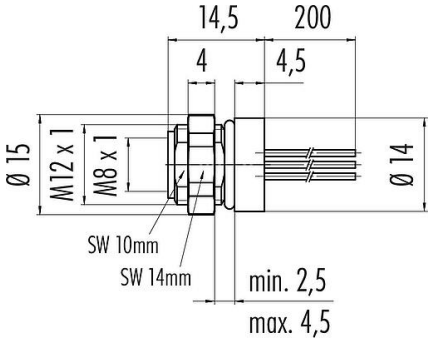
# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M8 Female panel mount connector, Contacts: 12, unshielded, single wires, IP67/IP69K, UL 2238, M12x1.0, Rear mounting, potted** |
| Area | **M8** |
| Coding | **C-coded** |
| Series | **718** |
| Part no. | **76 6518 1118 00012-0200** |

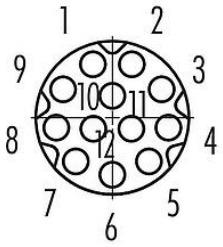
## Illustration (may vary)



## Scale drawing




## Contact arrangement (Plug-in side)




1 brown
2 blue
3 white
4 green
5 pink
6 yellow
7 black
8 grey
9 red
10 purple
11 grey-pink
12 red-blue

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

## Technical data

### General features

| | |
|---|---|
| Part no. | 76 6518 1118 00012-0200 |
| Notice | Please note that, due to the change from the old to the new order number, there may be deviations in the technical specifications. For questions about product details, please use the 'Contact Customer Service' form on the right. |
| Connector design | Female panel mount connector |
| Coding | C-coded |
| 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 | IP67/IP69K |
| Connection cross-section | 0.09 mm² / AWG 28 |
| Temperature range from/to | -40 °C / 85 °C |
| Mechanical operation | > 100 Mating cycles |
| Weight (g) | 14.30 |
| Customs tariff number | 85369010 |
| Country of Origin | DE |

### Electrical parameters

| | |
|---|---|
| Rated voltage | 30 V |
| Rated impulse voltage | 500 V |

**Product data sheet**

# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M8 Female panel mount connector, Contacts: 12, unshielded, single wires, IP67/IP69K, UL 2238, M12x1.0, Rear mounting, potted** |
| Area | **M8** |
| Coding | **C-coded** |
| Series | **718** |
| Part no. | **76 6518 1118 00012-0200** |

| | |
|---|---|
| Rated current | 1.0 A |
| Pollution degree | 2 |
| Overvoltage category | II |
| Insulating material group | I |
| EMC compliance | unshielded |

## Material

| | |
|---|---|
| Housing material | CuZn (Brass nickel plated) |
| Contact body material | PA black |
| Contact material | CuSn (bronze) |
| Contact plating | Au (gold) |
| REACH SVHC | CAS 7439-92-1 (Lead) |
| SCIP number | cd4b7d2c-c399-48fe-8c2a-516b548854e1 |

## Wire Data - Structure of the wire

| | |
|---|---|
| Cross section (mm²) | 12 x 0.09 mm² |
| Cross section (AWG) | 12 x AWG 28 |
| Wire diameter | 0,7 mm |
| Wire colors | white<br>brown<br>green<br>yellow<br>grey<br>pink<br>blue<br>red<br>black<br>violet<br>grey-pink<br>red-blue |
| Sheath material | mPPE |
| Wire material | Cu (tinned) |
| Wire structure | 7 x 0.127 mm |

## Wire Data - Electrical properties

| | |
|---|---|
| Rated voltage | 90 V |
| Rated impulse voltage | 3000 V |
| Wire resistance | 216 Ω/Km (20°C) |
| 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 |

**Product data sheet**

# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M8 Female panel mount connector, Contacts: 12, unshielded, single wires, IP67/IP69K, UL 2238, M12x1.0, Rear mounting, potted** |
| Area | **M8** |
| Coding | **C-coded** |
| Series | **718** |
| Part no. | **76 6518 1118 00012-0200** |

## Authorization/approvals

| | |
|---|---|
| Approvals | UL 2238 |

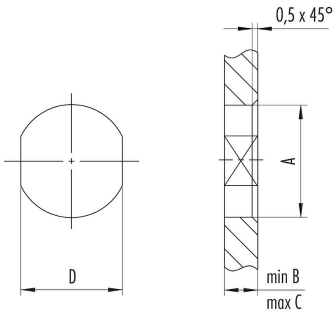
## Classifications

| | |
|---|---|
| eCl@ss 11.1 | 27-44-01-03 |
| ETIM 9.0 | EC003570 |

## Assembly instructions / Panel cut-out

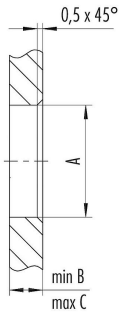
*1st Installation proposal*

*With flats as anti-rotation device*



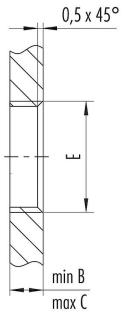

*2nd Installation proposal*

*With bore hole*




*3rd Installation proposal*

*With thread to screw in*




| *thread E* | A | B | C | D |
|---|---|---|---|---|
| M8 x 1 | 8,1 | 2,0 | 3,5 | 7,1 |
| M10 x 0,75 | 10,1 | 2,0 | 6,5 | 9,1 |
| M12 x 1 | 12,1 | 2,5 | 4,5 | 10,0 |

*Tightening torque* 1 Nm

**Product data sheet**

# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M8 Female panel mount connector, Contacts: 12, unshielded, single wires, IP67/IP69K, UL 2238, M12x1.0, Rear mounting, potted** |
| Area | **M8** |
| Coding | **C-coded** |
| Series | **718** |
| Part no. | **76 6518 1118 00012-0200** |

## 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.

Plug connectors with enclosure protection IP67 and IP68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

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. 50 cNm).