

Product data sheet

Power connectors

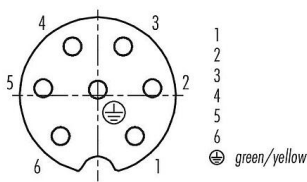
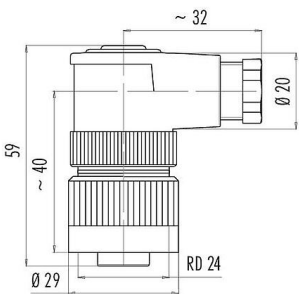


|                     |                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------|
| Product description | RD24 Female angled connector, Contacts: 6+PE, 6.0-8.0 mm, unshielded, screw clamp, IP67, UL, ESTI+, VDE, PG 9 |
| Area                | series 693                                                                                                    |
| Part no.            | 99 4218 70 07                                                                                                 |

Illustration

Scale drawing

Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

|                           |                                 |
|---------------------------|---------------------------------|
| Part no.                  | 99 4218 70 07                   |
| Connector design          | Female angled connector         |
| Version                   | Connector socket angled         |
| Connector locking system  | screw                           |
| Termination               | screw clamp                     |
| Degree of protection      | IP67                            |
| Cross-sectional area      | IP65 with cable diameter 6-7 mm |
| Cable outlet              | max. 1.50 mm² / AWG 16          |
| Twistability              | 6.0-8.0 mm                      |
| Temperature range from/to | 45° (8 coding options)          |
| Mechanical operation      | -40 °C / 100 °C                 |
| Weight (g)                | > 500 Mating cycles             |
| Customs tariff number     | 42.48                           |
| Country of Origin         | 85369010                        |
|                           | DE                              |

Electrical parameters

|                           |                      |
|---------------------------|----------------------|
| Rated voltage             | 250 V                |
| Rated impulse voltage     | 4000 V               |
| Rated current             | 10 A (8 A UL)        |
| Insulation resistance     | ≥ 10 <sup>10</sup> Ω |
| Pollution degree          | 3                    |
| Overvoltage category      | III                  |
| Insulating material group | III                  |
| EMC compliance            | unshielded           |

Product data sheet

Power connectors



|                     |                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------|
| Product description | RD24 Female angled connector, Contacts: 6+PE, 6.0-8.0 mm, unshielded, screw clamp, IP67, UL, ESTI+, VDE, PG 9 |
| Area                | series 693                                                                                                    |
| Part no.            | 99 4218 70 07                                                                                                 |

Material

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Contact body material | PBT (UL94 V-0)                                               |
| Contact material      | CuSn (bronze)                                                |
| Contact plating       | Ag (silver)                                                  |
| REACH SVHC            | CAS 96-45-7 (Imidazolidine-2-thione)<br>CAS 7439-92-1 (Lead) |
| SCIP number           | d47e6b56-44fd-4a25-852f-b70af8f2cc46                         |

Authorization/approvals

|           |                |
|-----------|----------------|
| Approvals | UL, ESTI+, VDE |
|-----------|----------------|

Classifications

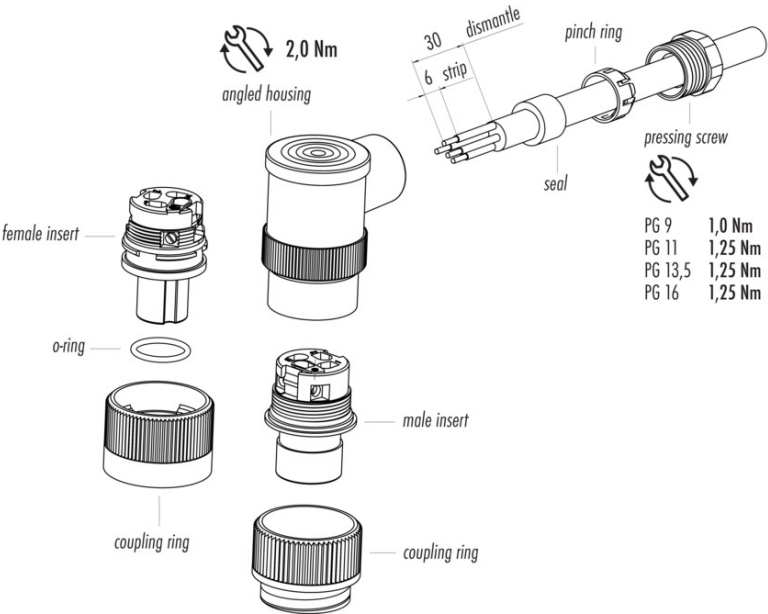
|             |             |
|-------------|-------------|
| eCl@ss 11.1 | 27-44-01-02 |
| ETIM 9.0    | EC002635    |

Declarations of conformity

|                       |                                            |
|-----------------------|--------------------------------------------|
| Low Voltage Directive | 2014/35/EU (EN 60204-1:2018;EN 60529:1991) |
|-----------------------|--------------------------------------------|

Assembly instructions

1. Unscrew the clamping screws until the holes for single wires are completely free.
2. Bead parts of the cable clamp and angled housing onto the cable.
3. Dismantle cable.
4. Strip, twist and screw on single wires.
5. Only female insert: mount o-ring.
6. Snap on the threaded ring.
7. Screw on the angled housing.
8. Tighten pressing screw.



|                     |                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| Product description | <b>RD24 Female angled connector, Contacts: 6+PE, 6.0-8.0 mm, unshielded, screw clamp, IP67, UL, ESTI+, VDE, PG 9</b> |
| Area                | <b>series 693</b>                                                                                                    |
| Part no.            | <b>99 4218 70 07</b>                                                                                                 |

## 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.

The plug connector is not suitable for mains voltages 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 to the device connector, we recommend tightening the threaded ring to 2 Nm. A suitable torque wrench is available as an accessory (order no. 07 0082 000).