

Product data sheet

Power connectors

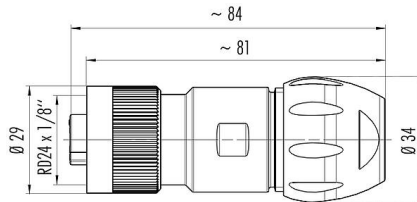


| | |
|---------------------|---|
| Product description | RD24 Female cable connector, Contacts: 6+PE, 7.0-17.0 mm, unshielded, screw clamp, IP67, UL, ESTI+, VDE, Vario |
| Area | RD24 series 693 |
| Part no. | 99 4218 300 07 |

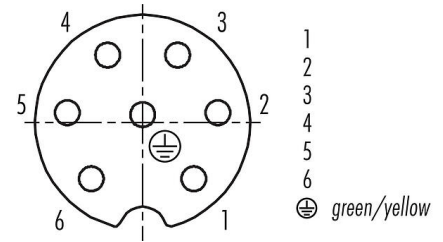
Illustration



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 300 07 |
| Connector design | Female cable connector |
| Version | Connector socket straight |
| Connector locking system | screw |
| Termination | screw clamp |
| Degree of protection | IP67 |
| Cross-sectional area | max. 1.50 mm ² / AWG 16 |
| Cable outlet | 7.0-17.0 mm |
| Temperature range from/to | -40 °C / 100 °C |
| Mechanical operation | > 500 Mating cycles |
| Weight (g) | 53.08 |
| Customs tariff number | 85369010 |

Electrical parameters

| | |
|---------------------------|----------------------|
| Rated voltage | 250 V |
| Rated impulse voltage | 4000 V |
| Rated current (40 °C) | 10.0 A |
| Insulation resistance | ≥ 10 ¹⁰ Ω |
| Pollution degree | 3 |
| Overvoltage category | III |
| Insulating material group | III |
| EMC compliance | unshielded |

Material

| | |
|-----------------------|----------------------|
| Contact body material | PBT |
| Contact material | CuSn (bronze) |
| Contact plating | Ag (silver) |
| REACH SVHC | CAS 7439-92-1 (Lead) |



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|-------------|--------------------------------------|
| SCIP number | f11b27b4-c674-467b-aed0-2f65dd12d73c |
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Authorization/approvals

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

Classifications

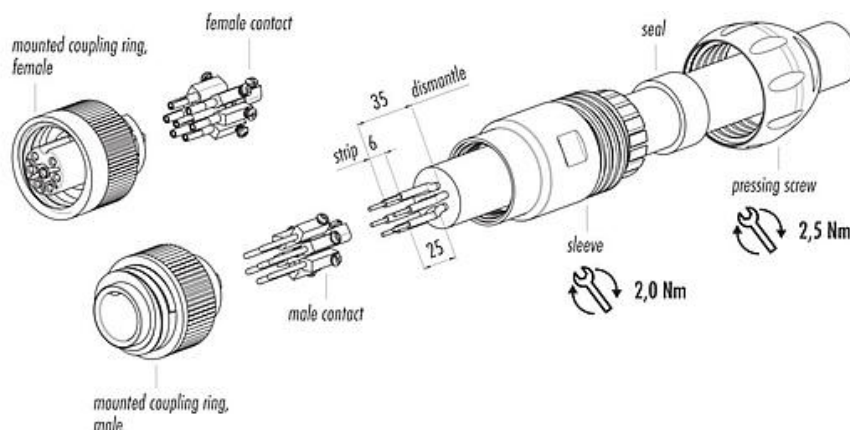
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|-------------|-------------|
| eCl@ss 11.1 | 27-44-01-02 |
| ETIM 7.0 | EC002635 |

Declarations of conformity

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

Assembly instructions

1. Strip to 35 mm length and take off cable jacket.
2. Bead pressing screw, pinch ring, seal and distance sleeve to cable.
3. Strip the insulation off the single wires to L = 6 mm. Dimension 25 mm applies to 6+PE center contact.
4. Insert wires into contacts and screw together.
5. Snap contacts with wires into the insulator and screw it together with the threaded ring with the coupling sleeve.
6. Insert sealing ring together with the pinch ring from behind into the coupling sleeve and tighten. (Recommended torque 4.0 Nm)



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General Disclaim Notice

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.

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.

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 50 cNm).