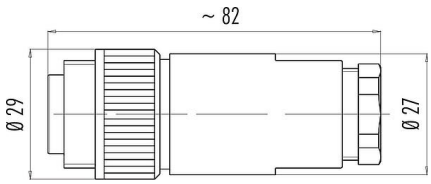
Product data sheet
Power connectors

Product description	**RD24 Male cable connector, Contacts: 3+PE, 12.0-14.0 mm, unshielded, screw clamp, IP67, UL, ESTI+, VDE, PG 16**
Area	**RD24**
Series	**693**
Part no.	**99 4221 160 04**

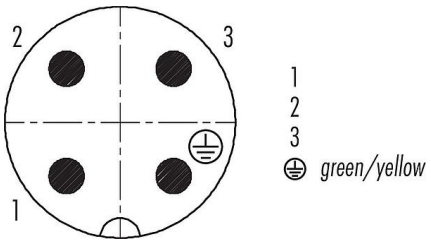
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



You can find the component part drawing on the next page.

Technical data

General features

Part no.	99 4221 160 04 Alternative part no.: 99 0209 160 04
Connector design	Male cable connector
Version	Connector pin straight
Connector locking system	screw
Termination	screw clamp
Degree of protection	IP67
Connection cross-section	max. 2.50 mm² / AWG 14
Cable outlet	12.0-14.0 mm
Temperature range from/to	-40 °C / 100 °C
Mechanical operation	> 500 Mating cycles
Weight (g)	40.47
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	400 V (600 V UL)
Rated impulse voltage	6000 V
Rated current	16 A (12 A UL)
Insulation resistance	≥ 10^{10} Ω
Pollution degree	3
Overvoltage category	III
Insulating material group	III
EMC compliance	unshielded

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Material

Contact body material	PBT (UL94 V-0)
Contact material	CuZn (brass)
Contact plating	Ag (silver)
REACH SVHC	CAS 96-45-7|CAS 7439-92-1 (Imidazolidine-2-thione|Lead)
SCIP number	2632f832-8be1-4775-8fdd-f19e3d87f23d

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	EN 60529:1991 | EN 60204-1:2018

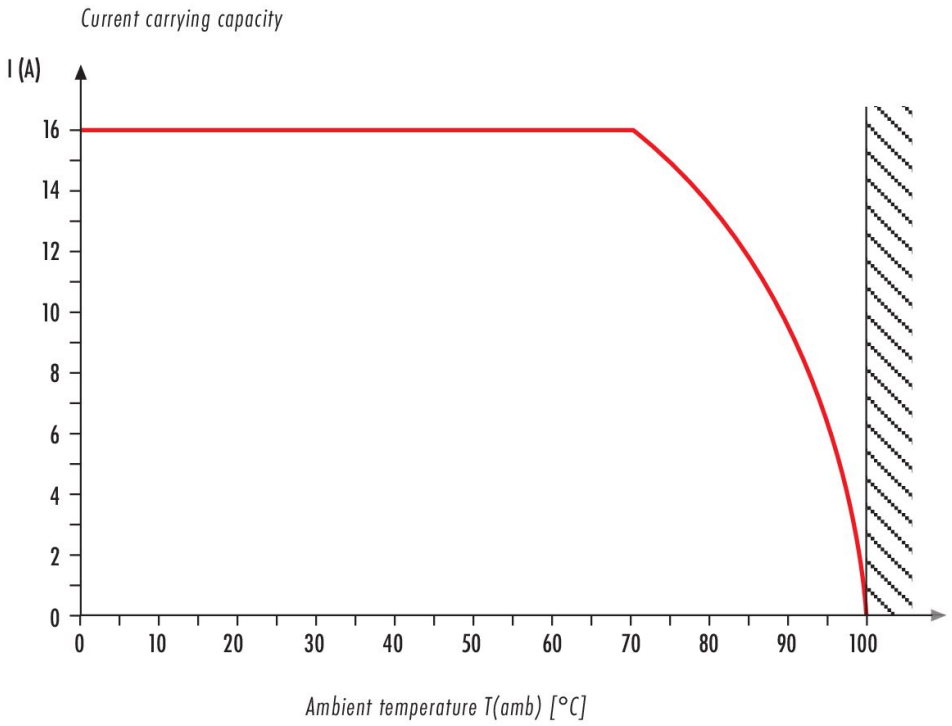
Trade-Compliance

Copper (9903.78.01)	0.011995 kg

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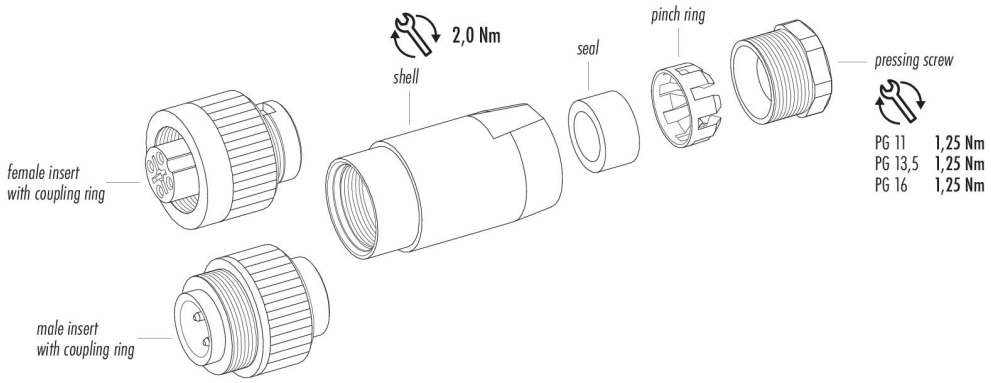
Derating curve



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Component part drawing



Date: 03.10.2026

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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.

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.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".