Product data sheet

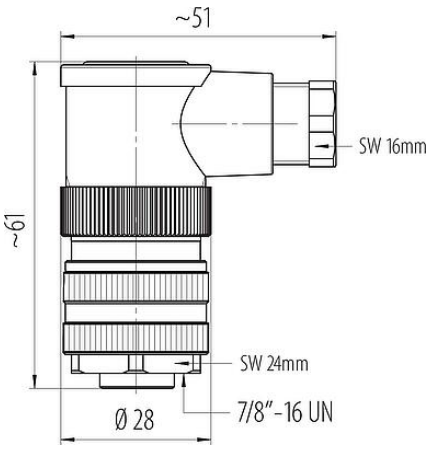
Automation technology - Voltage and Power Supply

Product description	**7/8" Female angled connector, Contacts: 2+PE, 6.0-8.0 mm, unshielded, screw clamp, IP67, UL 2238, VDE**
Area	**7/8"**
Series	**820**
Part no.	**99 2440 52 03**

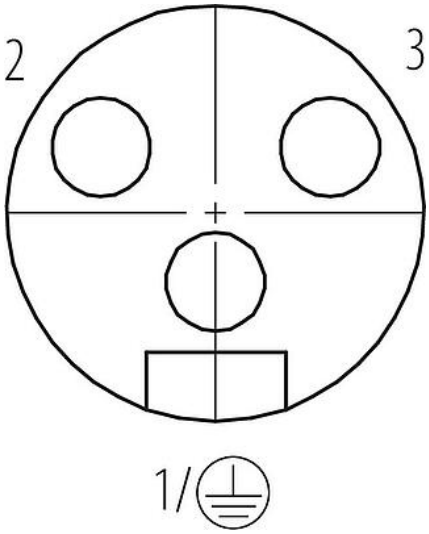
Illustration (may vary)



Scale drawing



Contact arrangement (Plug-in side)



You can find the assembly instructions on the next page.

Technical data

General features

Part no.	99 2440 52 03
Connector design	Female angled connector
Version	Connector socket angled
Connector locking system	screw
Termination	screw clamp
Degree of protection	IP67
Connection cross-section	max. 1.50 mm² / AWG 16
Cable outlet	6.0-8.0 mm
Twistability	45° (8 coding options)
Temperature range from/to	-25 °C / 85 °C
Mechanical operation	> 50 Mating cycles
Weight (g)	47.52
Customs tariff number	85369010
Country of Origin	DE

Electrical parameters

Rated voltage	300 V (600 V UL)
Rated impulse voltage	4000 V

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Rated current	13 A (12 A UL)
Insulation resistance	≥ 10^{10} Ω
Pollution degree	3
Overvoltage category	III
Insulating material group	III
EMC compliance	unshielded

Material

Housing material	PBT
Contact body material	PUR/PA
Contact material	CuZn (brass) / CuSn (bronze)
Contact plating	Au (gold)
Locking material	Zinc die-cast nickel-plated
REACH SVHC	CAS 7439-92-1 (Lead)
SCIP number	dc49f213-f500-4a12-9301-580cc7dc0449

Authorization/approvals

Approvals	UL 2238, 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)	0.000221 kg

Product data sheet

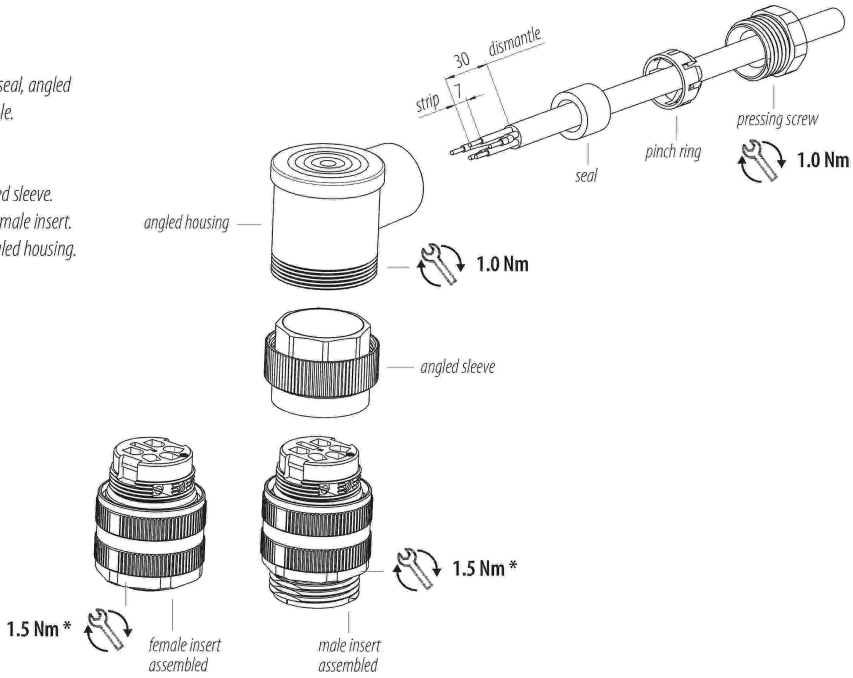
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Assembly instructions

1. Bead pressing screw, pinch ring, seal, angled housing and angled sleeve to cable.
2. Dismantle cable.
3. Strip and connect single wires.
4. Screw angled housing with angled sleeve.
5. Screw angled housing to male/female insert.
6. Push seal and pinch ring into angled housing.
7. Tighten pressing screw.

* Hexagon torque spanner
SW 24, 1.5 Nm
Ordering-No. 07 0082 000



Product data sheet

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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.

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 to the device connector, we recommend tightening the threaded ring to 1.5 Nm. A suitable torque wrench is available as an accessory (order no. 07 0082 000).