**Product data sheet**

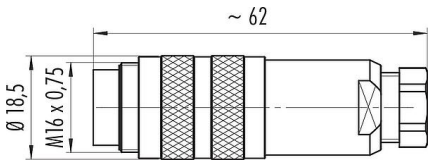
# Miniature connectors

| | |
|---|---|
| Product description | **M16 Male cable connector, Contacts: 19 (19-a), 4.0-6.0 mm, shieldable, solder, IP67, UL 2238, with shielding ring** |
| Area | **M16 IP67** |
| Series | **423** |
| Part no. | **99 5461 15 19** |

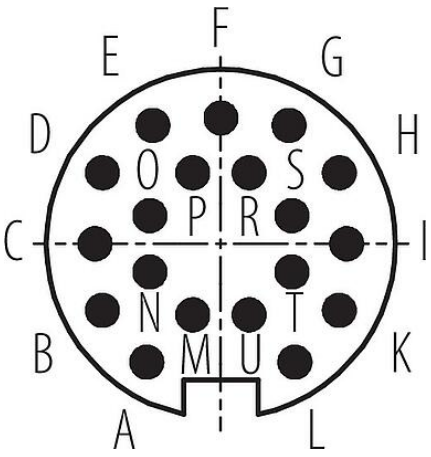
## Illustration (may vary)



## Scale drawing




## Contact arrangement (Plug-in side)




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

## Technical data

### General features

| | |
|---|---|
| Part no. | 99 5461 15 19 |
| Connector design | Male cable connector |
| Type standard | DIN EN 61076-2-106 |
| Version | Connector pin straight |
| Connector locking system | screw |
| Termination | solder |
| Degree of protection | IP67 |
| Connection cross-section | max. 0.25 mm² / AWG 24 |
| Cable outlet | 4.0-6.0 mm |
| Temperature range from/to | -30 °C / 95 °C |
| Mechanical operation | > 500 Mating cycles |
| Weight (g) | 50.50 |
| Customs tariff number | 85369010 |
| Country of Origin | DE |

### Electrical parameters

| | |
|---|---|
| Rated voltage | 60 V |
| Rated impulse voltage | 500 V |
| Rated current | 3,0 A |
| Insulation resistance | ≥ $10^{10}$ Ω |
| Pollution degree | 1 |
| Overvoltage category | I |
| Insulating material group | III |

**Product data sheet**

# Miniature connectors

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| | |
|---|---|
| EMC compliance | shieldable |
| Shield connection | Shielding ring |

## Material

| | |
|---|---|
| Housing material | CuZn (Brass nickel plated) |
| Contact body material | PBT (UL94 V-0) |
| Contact material | CuZn (brass) |
| Contact plating | Au (gold) |
| REACH SVHC | CAS 7439-92-1 (Lead) |
| SCIP number | df6bc8aa-632a-4e02-b735-5f4ab772a9ee |

## Authorization/approvals

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

## 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 |

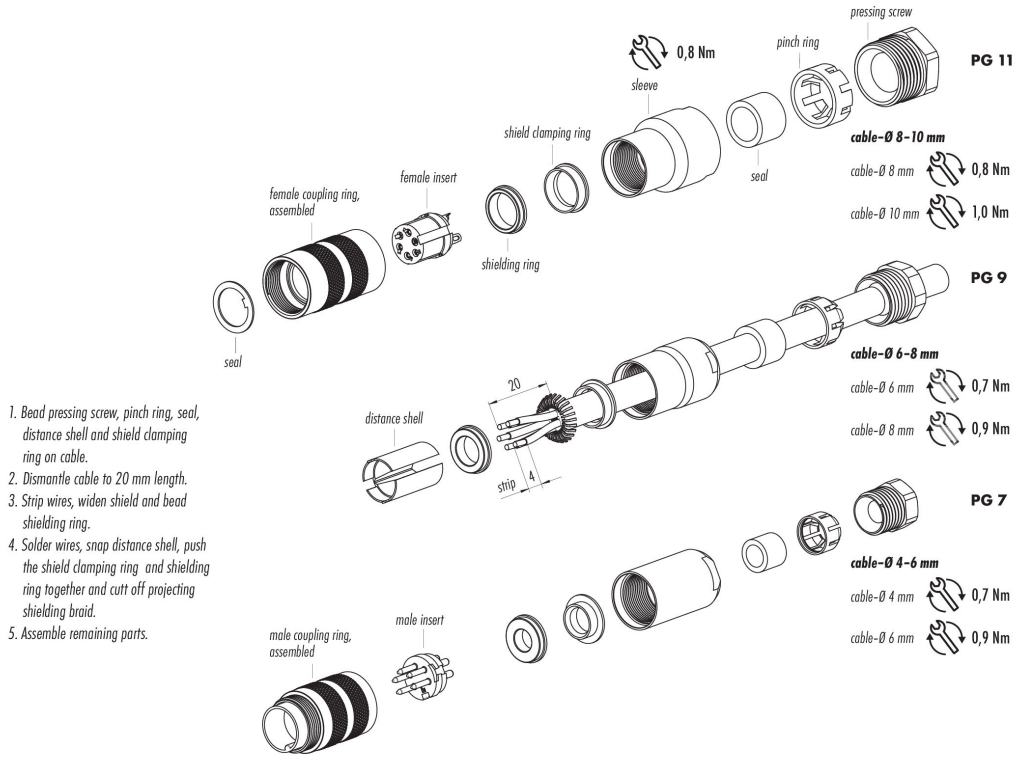
## Trade-Compliance

| | |
|---|---|
| Copper (9903.78.01) | 0.000321 kg |

**Product data sheet**
# Miniature connectors

| | |
|---|---|
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## Assembly instructions




1. Bead pressing screw, pinch ring, seal, distance shell and shield clamping ring on cable.
2. Dismantle cable to 20 mm length.
3. Strip wires, widen shield and bead shielding ring.
4. Solder wires, snap distance shell, push the shield clamping ring and shielding ring together and cutt off projecting shielding braid.
5. Assemble remaining parts.

**Product data sheet**

# Miniature connectors

| | |
|---|---|
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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 with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).