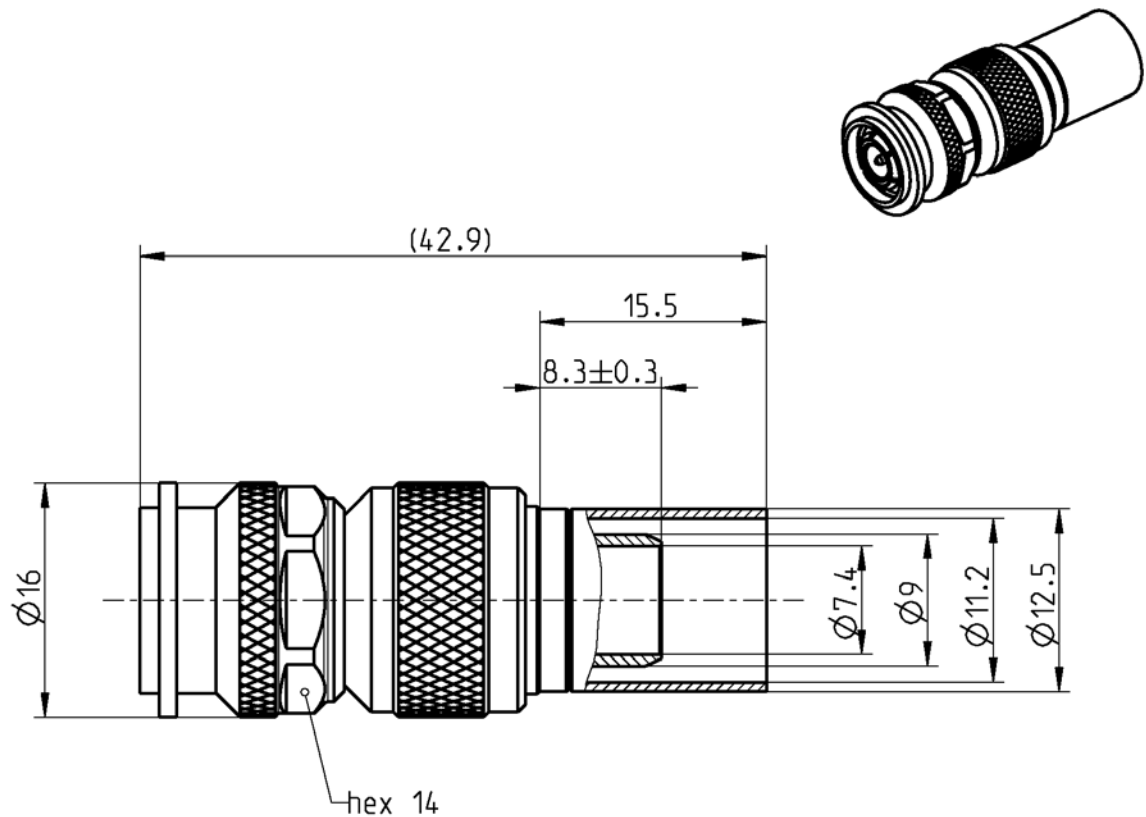




All dimensions are in mm; tolerances according to ISO 2768 m-H

#### Interface

According to IEC 60169-17, MIL-PRF-39012, DIN EN 122200

#### Documents

Assembly instruction 51 O

#### Material and plating

##### Connector parts

Center contact  
Outer contact  
Body  
Dielectric  
Gasket  
Crimping ferrule

##### Material

Brass  
Brass  
Brass  
PTFE  
NeopreneCR 50C6  
Copper

##### Plating

AuroDur®, gold plated  
Flash white bronze over silver(e.g. Optargen®)  
Flash white bronze over silver(e.g. Optargen®)  
Flash white bronze over silver(e.g. Optargen®)

### Electrical data

|                                                |                                                                                   |
|------------------------------------------------|-----------------------------------------------------------------------------------|
| Impedance                                      | 50 $\Omega$                                                                       |
| Frequency                                      | DC to 10 GHz                                                                      |
| Return loss                                    | $\geq 30$ dB, DC to 1 GHz<br>$\geq 20$ dB, 1 to 2 GHz<br>$\geq 16$ dB, 2 to 6 GHz |
| Insertion loss                                 | $\leq 0.05 \times \sqrt{f \text{ [GHz]}}$ dB, DC to 6 GHz                         |
| Insulation resistance                          | $\geq 5 \times 10^3$ M $\Omega$                                                   |
| Center contact resistance                      | $\leq 1.5$ m $\Omega$                                                             |
| Outer contact resistance                       | $\leq 1$ m $\Omega$                                                               |
| Test voltage                                   | 1500 V rms                                                                        |
| Working voltage                                | 500 V rms                                                                         |
| Power handling (at 20 °C, sea level, VSWR 1.0) | $\leq 80$ W @ 2 GHz                                                               |

- Limitations are possible due to the used cable type -

### Mechanical data

|                      |                    |
|----------------------|--------------------|
| Mating cycles        | min. 500           |
| Coupling test torque | max. 1.7 Nm        |
| Recommended torque   | 0.46 Nm to 0.69 Nm |

### Environmental data

|                     |                                 |
|---------------------|---------------------------------|
| Temperature range   | -65°C to +165°C                 |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion           | MIL-STD-202, Meth. 101, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. B |
| Shock               | MIL-STD-202, Meth. 213, Cond. G |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| 2002/95/EC (RoHS)   | compliant                       |

### Tooling

|               |            |
|---------------|------------|
| Crimping tool | 11W150-000 |
| Crimp insert  | 11W150-215 |

### Suitable cables

RG 214 /U

### Packing

|          |                |
|----------|----------------|
| Standard | 100 pcs in bag |
| Weight   | 29.8 g/pce     |

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

| Draft         | Date     | Approved         | Date     | Rev. | Engineering change number | Name           | Date     |
|---------------|----------|------------------|----------|------|---------------------------|----------------|----------|
| Inge Mühlauer | 10/08/04 | J. Krautenbacher | 13/06/08 | c00  | 07-0154                   | S. Huber-Siegl | 13/06/08 |

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