

## RF/Coaxial contacts for male connector housings\*

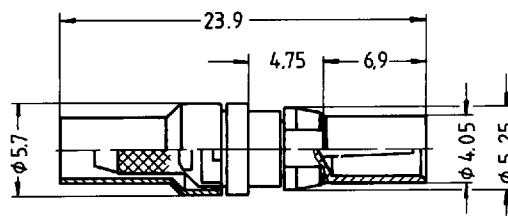
### Straight coaxial contact for cable connection<sup>†</sup>



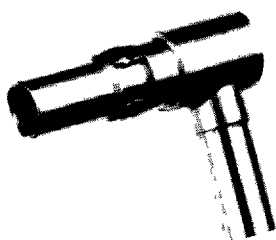
#### Ordering information

| Quality class  |                |
|----------------|----------------|
| 1              | 2              |
| <b>594 207</b> | <b>594 208</b> |

for cable types:  
RG 188 A/U, RG 174 A/U, RG 316 U,  
RG 179 B/U, RG 187 A/U



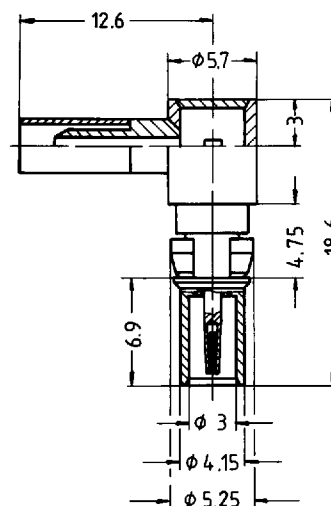
### Right-angled coaxial contact for cable connection<sup>†</sup>



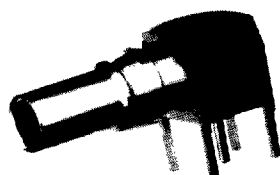
#### Ordering information

| Quality class  |                |
|----------------|----------------|
| 1              | 2              |
| <b>594 209</b> | <b>594 210</b> |

for cable types:  
RG 188 A/U, RG 174 A/U, RG 316 U,  
RG 179 B/U, RG 187 A/U



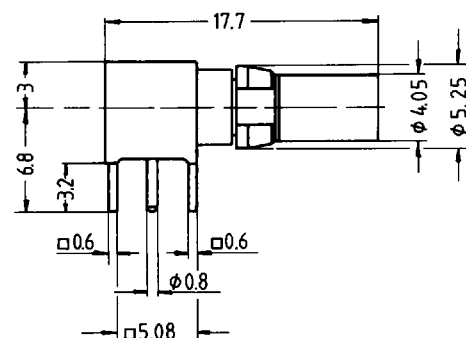
### Right-angled coaxial contact for PCB solder



#### Ordering information

| Quality class  |                |
|----------------|----------------|
| 1              | 2              |
| <b>594 211</b> | <b>594 212</b> |

5 solder connections  
For mounting holes  
see Fig. 3 on Page 14



\* Other styles available – please consult factory

<sup>†</sup> Soldered inner conductor, crimped outer ferrule – see page 10

## Special contacts

### Electrical and mechanical characteristics

#### RF/Coaxial contacts

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| Outer conductor       | Cu Zn 39 Pb 2                                                      |
| Sprung contact part   | Cu Be hardened                                                     |
| Insulation part       | PTFE                                                               |
| Crimp sleeve          | Cu                                                                 |
| Retaining clip        | Cu Be hardened                                                     |
| Wave impedance        | 50 $\Omega$ *                                                      |
| Test voltage 50 Hz    | 750 V <sub>eff</sub>                                               |
| Insulation resistance | $\geq 10^{12} \Omega$                                              |
| Volume resistance     | $\leq 6 \text{ m } \Omega$                                         |
| Inner conductor       | $\leq 3 \text{ m } \Omega$                                         |
| Outer conductor       |                                                                    |
| Working frequency     | max. 30 GHz.                                                       |
| Reflection factor     | max. 0.05 to 1 GHz.<br>max. 0.07 to 4 GHz.<br>max. 0.10 to 10 GHz. |
| Temperature range     | -65° ... + 165° C                                                  |

\* 75 $\Omega$  contacts available – please consult factory

#### High-current contacts

|                           |                            |
|---------------------------|----------------------------|
| Male contact              | Cu Zn 39 Pb 2              |
| Female contact            | Cu Be hardened             |
| Retaining clip            | Cu Be hardened             |
| Current-carrying capacity | 30 A at 70° C              |
| Test voltage 50 Hz        | 2500 V <sub>eff</sub>      |
| Volume resistance         | $\leq 1 \text{ m } \Omega$ |
| Temperature range         | -55° ... + 125° C          |

## Quality classes

#### Coaxial contacts

- 1 Meets the requirements of MIL-STD 202 and BS 9525 F 0011. Internal conductor and external conductor gold plated. 500 mating cycles.
- 2 As quality class 1 but 400 mating cycles.

#### High-current contacts

- 1 Meets the requirements of MIL-STD 202 and BS 9525 F 0011. Contacts are gold-plated. 500 mating cycles.
- 2 As quality class 1 but 400 mating cycles.