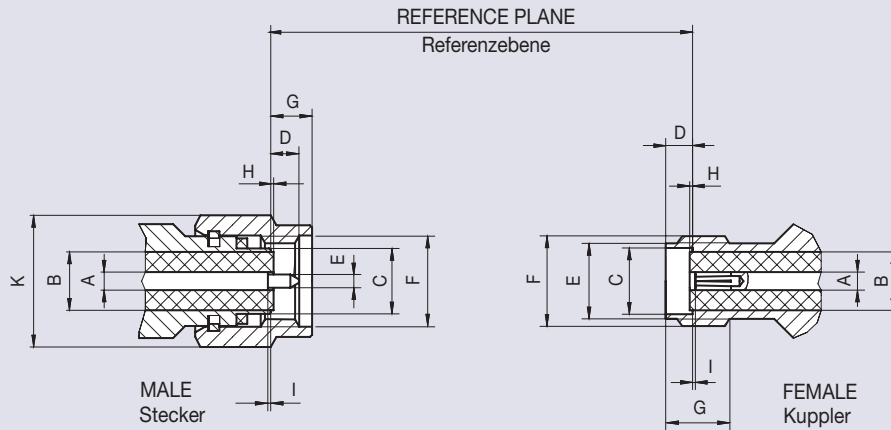


## Interface Dimensions SMA

Code 32



|   | Male   Stecker |         | Female   Kuppler |                       |
|---|----------------|---------|------------------|-----------------------|
|   | min.           | max.    | min.             | max.                  |
| A | Ø 1.245        | Ø 1.295 | Ø 1.245          | Ø 1.295 <sup>1)</sup> |
| B | –              | Ø 4.178 | –                | Ø 4.178               |
| C | –              | Ø 4.59  | Ø 4.60           | Ø 4.67                |
| D | –              | 2.54    | 1.88             | 1.98                  |
| E | Ø 0.902        | Ø 0.940 | Ø 5.28           | Ø 5.49                |
| F | 1/4-36 UNS-2B  |         | 1/4-36 UNS-2A    |                       |
| G | –              | 3.43    | 4.32             | –                     |
| H | -0.18          | +0.05   | -0.18            | +0.05                 |
| I | 0.00           | –       | 0.00             | 0.41                  |
| K | hex 8          |         | –                | –                     |

Dimensions in mm

<sup>1)</sup>Contact diameter refers to 50 Ω

### Features

- ▶ Interface according to IEC 60169-15, EN 122110, MIL-STD-348A, Fig. 310
- ▶ Frequency range DC to 18 GHz
- ▶ Return loss (cable connector straight) ≥ 30 dB (typ.)
- ▶ Impedance 50 Ω
- ▶ Screw-on coupling

### Product Range

- ▶ Cable connectors
- ▶ PCB connectors
- ▶ Panel connectors
- ▶ Hermetically sealed versions
- ▶ Adaptors
- ▶ Terminations
- ▶ Tools and Accessories

## Technical Data SMA

## Code 32

| Applicable standards   Anwendbare Normen   |  |
|--|--|
| Interface according to   Interface gemäß   | IEC 60169-15, EN 122110, MIL-STD-348A, Fig. 310  |
| Electrical data   Elektrische Daten  |  |
| Impedance   Wellenwiderstand   | 50 Ω   |
| Frequency range   Frequenzbereich  | DC to 18 GHz   |
| Return loss (cable connector straight)   Rückflussdämpfung (Kabelsteckverbinder gerade)        | ≥ 30 dB (typ.)   |
| Insertion loss   Dämpfung  | ≤ 0.04 x √f (GHz) dB   |
| Insulation resistance   Isolationswiderstand   | ≥ 5 GΩ   |
| Center contact resistance   Übergangswiderstand Innenleiter                                    | ≤ 3 mΩ   |
| Outer contact resistance   Übergangswiderstand Außenleiter                                     | ≤ 2 mΩ   |
| Test voltage   Prüfspannung  | 1000 V rms   |
| Working voltage   Betriebsspannung   | 480 V rms  |
| Power handling   Leistungsbelastbarkeit  | 200 W @ 2 GHz  |
| RF leakage - Interface   Schirmdämpfung  | ≥ 100 dB @ DC to 1 GHz   |
| Mechanical data   Mechanische Daten  |  |
| Mating cycles   Steckzyklen  | CuBe or equivalent / stainless steel: ≥ 500<br>CuZn: ≥ 100   |
| Coupling nut retention   Überwurfmutter Haltekraft   | CuBe or equivalent / stainless steel: ≥ 270 N<br>CuZn: ≥ 180 N   |
| Center contact captivation   Innenleiter Haltekraft  | CuBe or equivalent / stainless steel: axial: ≥ 27 N,<br>radial: ≥ 3 Ncm<br>CuZn: axial: ≥ 20 N, radial: ≥ 1 Ncm              |
| Coupling test torque   Prüfdrehmoment  | CuBe or equivalent / stainless steel: ≤ 1.7 Nm<br>CuZn: ≤ 0.6 Nm   |
| Coupling torque recommended   Drehmoment empfohlen   | CuBe or equivalent / stainless steel: 0.8 Nm to 1.1 Nm<br>CuZn: 0.5 Nm   |
| Environmental data   Umweltdaten   |  |
| Temperature range   Temperaturbereich  | -65 °C to +165 °C  |
| Thermal shock   Temperaturzyklen   | MIL-STD-202, Method 107, Condition B   |
| Corrosion resistance   Korrosionsbeständigkeit   | MIL-STD-202, Method 101, Condition B   |
| Moisture resistance   Feuchtigkeitsbeständigkeit   | MIL-STD-202, Method 106  |
| Vibration   Vibration  | MIL-STD-202, Method 204, Condition D   |
| Shock   Schock   | MIL-STD-202, Method 213, Condition I   |
| Max. soldering temperature (PCB connectors)   Max. Löttemperatur (Leiterplattensteckverbinder) | IEC 61760-1, +260 °C for 10 sec.   |
| Materials   Materialien  |  |
| Spring loaded contact parts   Federnde Kontaktteile  | CuBe, Au plating   |
| Center contact   Innenleiter   | CuZn, Au plating   |
| Outer contact   Außenleiter  | CuBe or equivalent, Au / white bronze plating<br>Stainless steel, passivated / Au plating<br>CuZn, Au / white bronze plating |
| Body   Gehäuse   | CuBe or equivalent, Au / white bronze plating<br>Stainless steel, passivated / Au plating<br>CuZn, Au / white bronze plating |
| Coupling nut   Überwurfmutter  | CuBe or equivalent, Au / white bronze plating<br>Stainless steel, passivated / Au plating<br>CuZn, Au / white bronze plating |
| Crimping ferrule   Crimphülse  | Cu, Au / white bronze plating  |
| Dielectric   Dielektrikum  | PTFE   |
| Gasket   Dichtung  | Silicon / Rubber   |

Rosenberger connectors generally fulfill the indicated technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and workmanship. Data sheets for particular products can be downloaded on our website or can be provided on request from your Rosenberger sales partner.

Rosenberger-Steckverbinder erfüllen grundsätzlich die hier angegebenen technischen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte der Steckverbinder hiervon abweichen. Datenblätter zu einzelnen Produkten können Sie von unserer Website herunterladen oder auf Anfrage von Ihrem Rosenberger-Ansprechpartner erhalten.