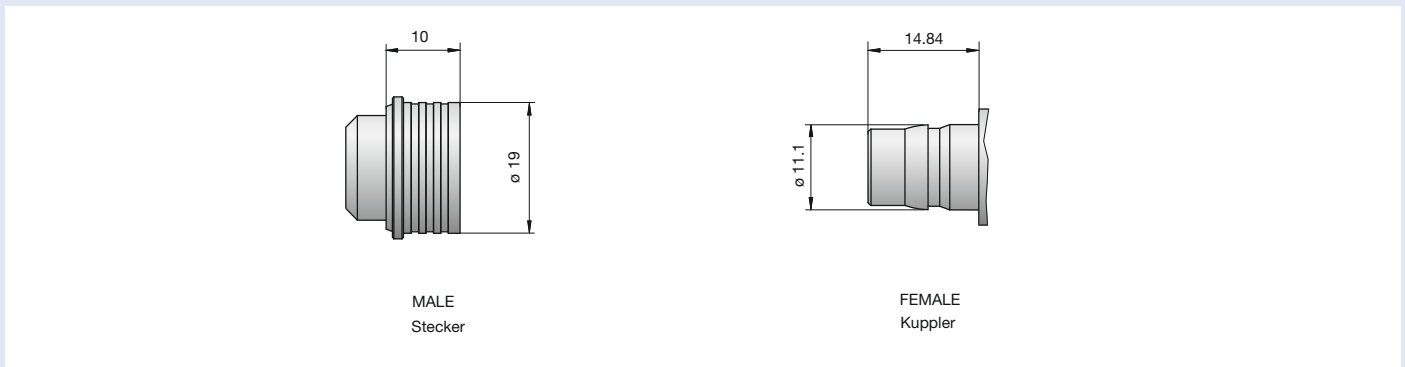


Interface Dimensions QN**Code 153****Features**

Interface according to QLF (Quick Lock Formula)
Frequency range DC to 11 GHz
Return loss (cable connector straight) ≥ 25 dB @ 6 GHz
Minimum pitch: 20 mm
Flexibility: 360° turnable
Impedance 50 Ω
Quick-lock coupling

Product Range

Cable connectors
Panel connectors
Adaptors
Terminations

Further connectors available on request

Technical Data QN

Code 153Q

Applicable standards Anwendbare Normen	
Interface according to <i>Interface gemäß</i>	QLF® (Quick Lock Formula) Rosenberger is an authorized QLF® manufacturer
Quality tested according to <i>Qualitätsprüfung gemäß</i>	IEC 60169
Electrical data Elektrische Daten	
Impedance <i>Wellenwiderstand</i>	50 Ω
Frequency range <i>Frequenzbereich</i>	DC to 11 GHz
Return loss (cable connector straight) <i>Rückflussdämpfung (Kabelsteckverbinder gerade)</i>	≥ 32 dB @ DC to 3 GHz ≥ 25 dB @ 3 GHz to 6 GHz ≥ 20 dB @ 6 GHz to 11 GHz
Insertion loss <i>Dämpfung</i>	≤ 0.05 x √f(GHz) dB
Insulation resistance <i>Isolationswiderstand</i>	≥ 5 GΩ
Center contact resistance <i>Übergangswiderstand Innenleiter</i>	≤ 1.5 mΩ
Outer contact resistance <i>Übergangswiderstand Außenleiter</i>	≤ 1.5 mΩ
Test voltage <i>Prüfspannung</i>	2500 V rms
Working voltage <i>Betriebsspannung</i>	1000 V rms
Power handling <i>Leistungsbelastbarkeit</i>	300 W @ 2.5 GHz
RF-leakage <i>Schirmdämpfung</i>	≥ 90 dB @ DC to 3 GHz ≥ 80 dB @ 3 GHz to 6 GHz
Intermodulation 3rd order <i>Intermodulation 3. Ordnung</i>	≥ 155 dBc (2 x 43 dBm)
Mechanical data Mechanische Daten	
Mating cycles <i>Steckzyklen</i>	≥ 100
Interface retention force <i>Interface Haltekraft</i>	≥ 450 N
Engagement force <i>Steckkraft</i>	30 N (typ.)
Disengagement force <i>Ziehkraft</i>	30 N (typ.)
Environmental data Umweltdaten	
Temperature range <i>Temperaturbereich</i>	-40 °C to +125 °C
Thermal shock <i>Temperaturwechsel</i>	IEC 60169-1, Sub-clause 16.4 (-40 °C / +125 °C)
Damp Heat <i>Feuchte Wärme</i>	IEC 60169-1, Sub-clause 16.3 (96 hrs; steady state)
Climatic sequence <i>Klimasequenz</i>	IEC 60169-1, Sub-clause 16.2, 40/125/21
Degree of protection (mated pair) <i>Schutzgrad (gekuppeltes Paar)</i>	IEC 60529, IP 68
Corrosion resistance <i>Korrosionsbeständigkeit</i>	Saltspray test acc. to MIL-STD-202F, Method 101, Condition B
Mixed flowing gas <i>Schadgas</i>	DIN EN 60068-2-60, Method 4
Vibration <i>Vibration</i>	MIL-STD-202F, Method 204, Condition A (10 to 500 Hz, 5 g)
Shock <i>Schock</i>	MIL-STD-202F, Method 213, Condition I
Max. soldering temperature (PCB connectors) <i>Max. Löttemperatur (Leiterplattensteckverbinder)</i>	IEC 61760-1, +260 °C for 10 sec.
Materials Materialien	
Spring loaded contact parts <i>Federnde Kontaktteile</i>	CuBe, Au plating
Center contact <i>Innenleiter</i>	CuZn / CuSn, Au plating
Outer contact <i>Außenleiter</i>	CuZn, white bronze plating
Body <i>Gehäuse</i>	CuZn, white bronze plating
Locking sleeve <i>Verriegelungshülse</i>	CuZn, white bronze plating
Crimping ferrule <i>Crimphülse</i>	Copper alloy, white bronze plating
Dielectric <i>Dielektrikum</i>	PTFE
Gasket <i>Dichtung</i>	Silicone

Rosenberger connectors fulfill in principle the indicated data of the Technical Data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger sales partner.

Rosenberger Steckverbinder erfüllen grundsätzlich die in den Technischen Daten angegebenen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte von Steckverbindern hiervon abweichen. Spezifische Datenblätter zu einzelnen Produkten erhalten Sie auf Anfrage von Ihrem Rosenberger-Ansprechpartner.