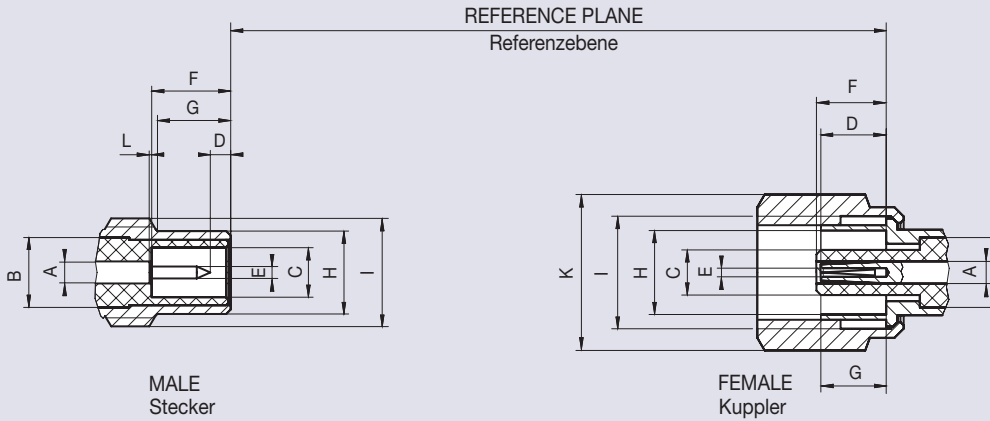


SMC 50 Ω

Interface Dimensions SMC 50 Ω

Code 39



	Male Stecker		Female Kuppler	
	min.	max.	min.	max.
A	2)		2)	
B	–	Ø 3.07	–	Ø 3.07
C	Ø 2.08	–	–	Ø 2.06
D	0.61	–	2.85	3.40
E	Ø 0.48	Ø 0.53	1)	
F	3.40	–	–	3.40
G	3.12	3.38	–	3.10
H	–	Ø 3.71	Ø 3.73	–
I	10-32 UNF-2A		10-32 UNF-2B	
K	–	–	hex 6	
L	0.00	0.18	–	–

Dimensions in mm

¹⁾ Resilient, dimension to meet electrical and mechanical requirements

²⁾ Contact diameter refers to 50 Ω

Features

- ▶ Interface according to IEC 60169-9, CECC 22140, MIL-PRF-39012
- ▶ Frequency range DC to 6 GHz
- ▶ Return loss (cable connector straight) ≥ 20 dB @ 3 GHz
- ▶ Impedance 50 Ω
- ▶ Screw-on coupling

Product Range

- ▶ Cable connectors
- ▶ PCB connectors
- ▶ Panel connectors
- ▶ Adaptors

Technical Data SMC 50 Ω

Code 39

Applicable standards Anwendbare Normen	
Interface according to Interface gemäß	IEC 60169-9, CECC 22140, MIL-PRF-39012
Electrical data Elektrische Daten	
Impedance Wellenwiderstand	50 Ω
Frequency range Frequenzbereich	DC to 6 GHz
Return loss (cable connector straight) Rückflusdämpfung (Kabelsteckverbinder gerade)	≥ 30 dB @ DC to 1 GHz ≥ 20 dB @ 1 GHz to 3 GHz ≥ 18 dB @ 3 GHz to 6 GHz
Insertion loss Dämpfung	≤ 0.1 × √f (GHz) dB
Insulation resistance Isolationswiderstand	≥ 1 GΩ
Center contact resistance Übergangswiderstand Innenleiter	≤ 5 mΩ
Outer contact resistance Übergangswiderstand Außenleiter	≤ 2.5 mΩ
Test voltage Prüfspannung	750 V rms
Working voltage Betriebsspannung	250 V rms
Contact current Kontaktstrombelastbarkeit	≤ 1.5 A DC
RF leakage - Interface Schirmdämpfung	≥ 90 dB @ DC to 1 GHz
Mechanical data Mechanische Daten	
Mating cycles Steckzyklen	≥ 500
Center contact captivation Innenleiter Haltekraft	axial: ≥ 10 N
Coupling test torque Prüfdrehmoment	≤ 0.71 Nm
Coupling torque recommended Drehmoment empfohlen	0.25 Nm to 0.35 Nm
Environmental data Umweltdaten	
Temperature range Temperaturbereich	-55 °C to +155 °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
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	CuZn, Au plating
Crimping ferrule Crimphülse	Cu, Au plating
Dielectric Dielektrikum	PTFE
Gasket Dichtung	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.