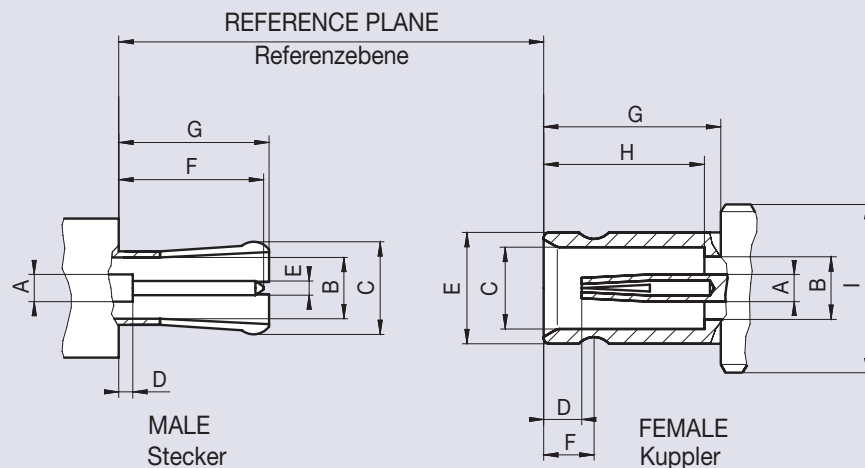


1.0-2.3 DIN 47297 50 Ω

Interface Dimensions 1.0-2.3 DIN 47297 50 Ω

Code 34



	Male Stecker		Female Kuppler	
	min.	max.	min.	max.
A	Ø 1.00 nom.		Ø 1.00 nom. ^{1) 2)}	
B	–	Ø 2.30 nom. ¹⁾	–	Ø 2.30 nom.
C	²⁾		Ø 3.00	Ø 3.06
D	–	1.15	1.15	1.75
E	Ø 0.475	Ø 0.52	Ø 4.03	Ø 4.15
F	–	5.50	1.80	1.90
G	5.40	5.70	6.40	6.50
H	–	–	5.80	5.90
I	–	–	M 5.5 x 0.5	

Dimensions in mm

¹⁾ Contact diameter refers to 50 Ω

²⁾ Resilient, dimension to meet electrical and mechanical requirements

Features

- ▶ Interface according to CECC 22230, DIN 47297
- ▶ Frequency range DC to 10 GHz
- ▶ Return loss (cable connector straight) ≥ 23 dB @ 1 GHz to 4 GHz
- ▶ Impedance 50 Ω
- ▶ 40% size reduction compared to 1.6-5.6 connectors

Product Range

Connectors are available on request

Coupling mechanisms, male types:

- ▶ Type A: Screw-on coupling
Screwing plug and jack by hand with a coupling nut.
- ▶ Type C: Slide-on coupling with centering sleeve
Conical insertion guide of floating male connector facilitates connection to fixed female connectors. The interconnection is a slide fit.
- ▶ Type E: Slide-on coupling with retention clip
For use in multiple or mixed connector housings. In contrast to type C, additional retention clip. The interconnection is a slide fit.
- ▶ Type F: Quick-lock coupling mechanism
Quick-lock coupling mechanism for fast, easy and reliable connections in tightest spaces, assembly tools are not necessary.

Technical Data 1.0-2.3 DIN 47297 50 Ω

Code 34

Applicable standards Anwendbare Normen	
Interface according to Interface gemäß	CECC 22230, DIN 47297
Electrical data Elektrische Daten	
Impedance Wellenwiderstand	50 Ω
Frequency range Frequenzbereich	DC to 10 GHz (max.) DC to 2.5 GHz (opt.)
Return loss (cable connector straight) Rückflussdämpfung (Kabelsteckverbinder gerade)	≥ 32 dB @ DC to 1 GHz ≥ 23 dB @ 1 GHz to 4 GHz ≥ 16 dB @ 4 GHz to 10 GHz
Insertion loss Dämpfung	≤ 0.1 x √f (GHz) dB
Insulation resistance Isolationswiderstand	≥ 1 GΩ
Center contact resistance Übergangswiderstand Innenleiter	≤ 4 mΩ
Outer contact resistance Übergangswiderstand Außenleiter	≤ 2.5 mΩ
Test voltage Prüfspannung	750 V rms
Working voltage Betriebsspannung	250 V rms
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
Engagement force Steckkraft	≤ 10 N
Disengagement force Ziehkraft	≤ 10 N
Environmental data Umweltdaten	
Temperature range Temperaturbereich	-40 °C to +85 °C
Dry heat Trockene Wärme	IEC 60068-2-2
Damp heat Feuchte Wärme	IEC 60068-2-78
Climatic category Klimakategorie	IEC 60068-2-1 40/85/21
Vibration Vibration	IEC 60068-2-6 (10 Hz to 2000 Hz, 100 m/s ²)
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
Body Gehäuse	CuZn, Ag / Ni plating
Crimping ferrule Crimphülse	Cu, white bronze plating
Dielectric Dielektrikum	PTFE

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.