

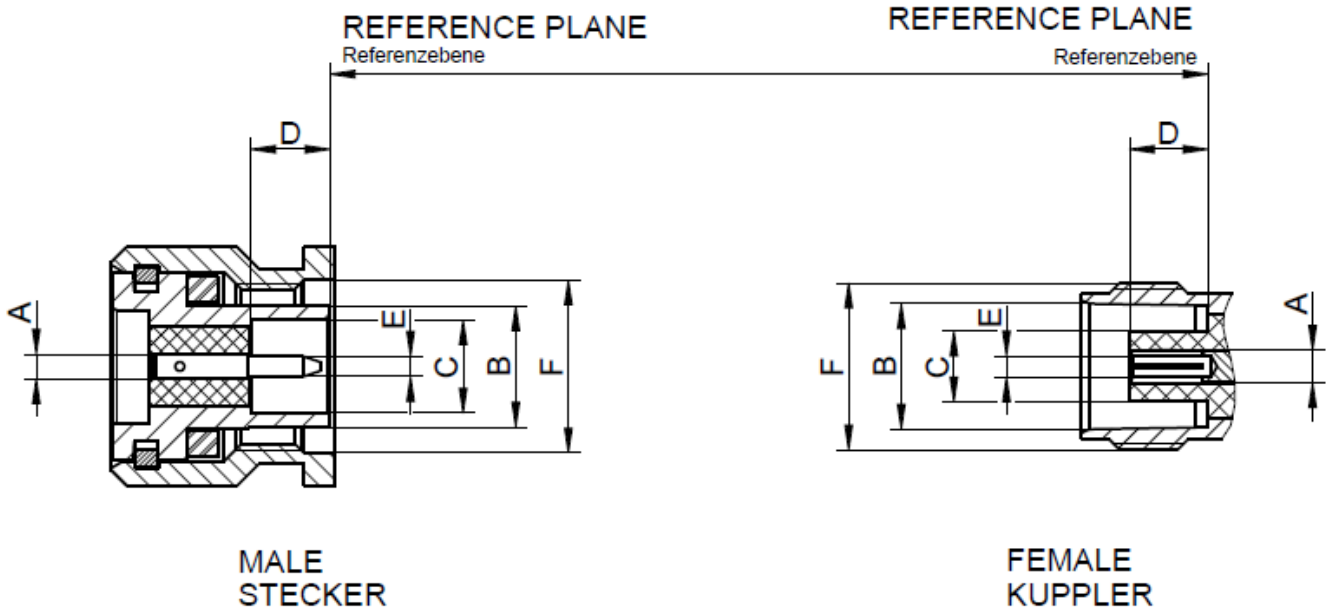
# Technical Data

# Rosenberger

06

RPC-TNC

06-000-000\_TD



All dimensions are in mm

	Plug (male)		Jack (female)	
	min.	max.	min.	max.
A	1.64	1.66	2.13	2.15
B	8.06	8.08	8.10	8.15
C	6.07	6.12	4.62	4.72
D	5.28	5.38	5.18	5.28
E	1.34	1.37	1.38	1.42
F	7/16-28 UNEF-2B		7/16-28 UNEF-2A	

## Interface

According to

IEC 61169-26

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RFB00035

Draft	Date	Approved	Date	Rev.	Engineering Change Number	Name	Date
F. Reiner	05.04.22	H. Babinger	05.08.22	200	22-1407	T. Börgerding	05.08.22
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### Electrical data

Impedance	50 Ω
Frequency range	DC to 18 GHz
Return loss	see individual product data sheet
Insertion loss	see individual product data sheet
Insulation resistance	≥ 5 GΩ
Proof voltage (at sea level)	1500 V rms or as limited by used cable
Working voltage (at sea level)	500 V rms or as limited by used cable
RF-leakage	≥ 90 dB up to 1 GHz

### Mechanical data

Mating cycles	≥ 500
Center contact captivation axial force	≥ 27 N
Coupling test torque	1.70 Nm
Coupling torque recommended	0.46 Nm to 0.69 Nm

### Environmental data

Temperature range	-40 °C to +85 °C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion resistance	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
Max. soldering temperature (PCB)	IEC 61760-1, +260 °C for 10 sec.
RoHS	compliant

### Materials <sup>1)</sup>

#### Connector parts

	Material	Plating
Center contact	Beryllium copper	gold-plated
Outer contact	Stainless steel	passivated
Dielectric 1	PTFE	
Dielectric 2	PPE	
Gasket	Neoprene E50	

<sup>1)</sup> These are standard materials from which deviations are possible. Please see individual product datasheet fore used materials

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**Intercompability**

		up to 18 GHz IEC 61169-26		up to 16 GHz IEC 60169-17 Grade 0		up to 11 GHz IEC 60169-17 Grade 2		up to 16 GHz DIN EN 122200 Grade 0		up to 11 GHz DIN EN 122200 Grade 2		up to 11 GHz MIL-STD-348 TNC		up to 18 GHz MIL-STD-384 TNCA		up to 16 GHz MIL-STD-384 Test connector	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
up to 18 GHz IEC 61169-26	M	OK		2)		2)		2)		2)		2)		OK		2)	
	F	OK		OK		OK		OK		OK		OK		OK		OK	
up to 16 GHz IEC 60169-17 Grade 0	M			OK		OK		OK		OK		OK		OK		OK	
	F			OK		OK		OK		OK		OK		2)		OK	
up to 11 GHz IEC 60169-17 Grade 2	M					OK		OK		OK		OK		OK		OK	
	F					OK		OK		OK		OK		2)		OK	
up to 16 GHz DIN EN 122200 Grade 0	M							OK		OK		OK		OK		OK	
	F							OK		OK		OK		2)		OK	
up to 11 GHz DIN EN 122200 Grade 2	M									OK		OK		OK		OK	
	F									OK		OK		OK		2)	
up to 11 GHz MIL-STD-348 TNC	M											OK		OK		OK	
	F											OK		2)		OK	
up to 18 GHz MIL-STD-348 TNCA	M													OK		2)	
	F													OK		OK	
up to 16 GHz MIL-STD-348 Test Connector	M															OK	
	F															OK	

- 2) Mating can result in non-contacting outer conductors when dielectric extends beyond reference plane on female connector
- 3) Please note the different frequency ranges for different standards. Mixing the connectors can lead to frequency compatibility problems. The connectors should only mixed where one connector has chosen as test connector and is characterized on a VNA for error corrected measurements.

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