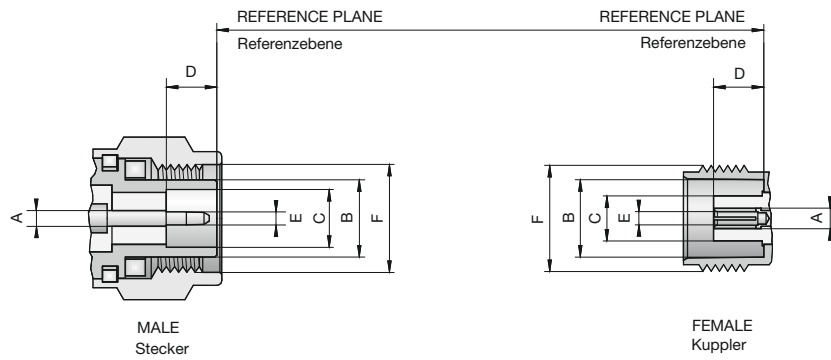


**Interface Dimensions Series RPC-TNC (code 06)**



**Series RPC-TNC**

dimension	Male   Stecker		Female   Kuppler	
	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	1.41
F	7/16-28UNEF-2B		7/16-28UNEF-2A	

## Technical Data Series RPC-TNC

<b>Applicable standards   Anwendbare Standards</b>	
Interface according to   <i>Interface gemäß</i>	IEC 60169-26
<b>Electrical data   Elektrische Daten</b>	
Impedance   <i>Wellenwiderstand</i>	50 $\Omega$
Frequency range   <i>Frequenzbereich</i>	DC to 18 GHz
Return loss (connector head)   <i>Rückflußdämpfung (Steckerkopf)</i>	$\geq 23$ dB, DC to 18 GHz
Insertion loss (connector head)   <i>Dämpfung (Steckerkopf)</i>	$\leq 0.05$ dB x $\sqrt{f[\text{GHz}]}$
Insulation resistance   <i>Isolationswiderstand</i>	$\geq 5$ G $\Omega$
Center contact resistance   <i>Übergangswiderstand Innenleiter</i>	$\leq 1.5$ m $\Omega$
Outer contact resistance   <i>Übergangswiderstand Außenleiter</i>	$\leq 1.0$ m $\Omega$
Test voltage   <i>Prüfspannung</i>	1500 V rms
Working voltage   <i>Betriebsspannung</i>	500 V rms
RF-leakage   <i>Schirmdämpfung</i>	$\geq 90$ dB up to 1 GHz
<b>Mechanical data   Mechanische Daten</b>	
Mating cycles   <i>Steckzyklen</i>	$\geq 500$
Center contact captivation   <i>Innenleiter Haltekraft</i>	$\geq 27$ N
Coupling torque recommended   <i>Anzugsdrehmoment empfohlen</i>	0.46 Nm to 0.69 Nm
Coupling test torque   <i>Prüfdrehmoment</i>	1.70 Nm
<b>Environmental data   Umweltdaten</b>	
Temperature range   <i>Temperaturbereich</i>	-40 °C to +85 °C
Thermal shock   <i>Temperaturzyklen</i>	MIL-STD 202, Method 107, Condition B
Corrosion resistance   <i>Korrosionsbeständigkeit</i>	MIL-STD 202, Method 101, Condition B
Vibration   <i>Vibration</i>	MIL-STD 202, Method 204, Condition D
Shock   <i>Schock</i>	MIL-STD 202, Method 213, Condition I
Moisture resistance   <i>Feuchtigkeitsbeständigkeit</i>	MIL-STD 202, Method 106
Max. soldering temperature   <i>Maximale Löttemperatur</i>	IEC 61760-1, +260 °C for 10 sec.
<b>Materials   Materialien</b>	
Center contact   <i>Innenleiter</i>	Beryllium copper, gold-plated
Outer contact   <i>Außenleiter</i>	Stainless steel, passivated
Dielectric 1   <i>Dielektrikum 1</i>	PTFE
Dielectric 2   <i>Dielektrikum 2</i>	PPE
Gasket   <i>Dichtung</i>	Neoprene E50

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.*

## Connector Heads

### Straight Plug

Ordering Number	Remarks	Return Loss	
06 S 121-000 S3	with bead	$\geq 23$ dB @ DC to 18 GHz	
06 S 121-002 S3	with bead, coupling nut without wire-lock	$\geq 23$ dB @ DC to 18 GHz	

### Straight Jack

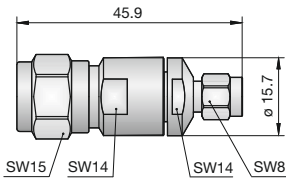
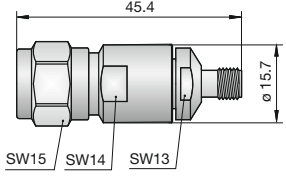
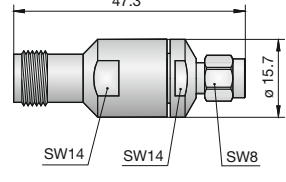
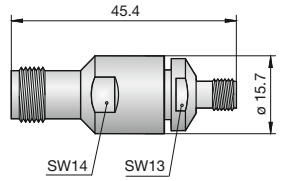
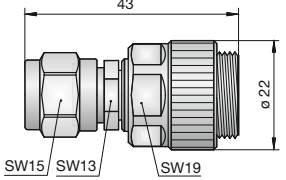
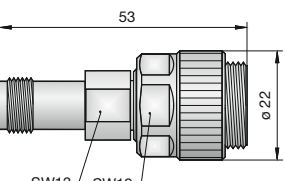
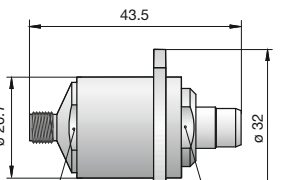
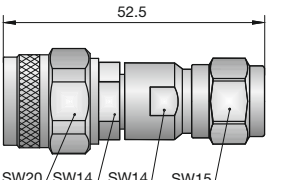
Ordering Number	Remarks	Return Loss	
06 K 121-000 S3	with bead	$\geq 23$ dB @ DC to 18 GHz	

## Adaptors

### Adaptor (In Series)

Ordering Number	Version	Remarks	Return Loss	
06 S 121-S20 S3	straight	RPC-TNC male - male, calibration adaptor	$\geq 30$ dB @ DC to 4 GHz $\geq 20$ dB @ 4 to 18 GHz	
06 S 121-K20 S3	straight	RPC-TNC male - female, calibration adaptor	$\geq 30$ dB @ DC to 4 GHz $\geq 20$ dB @ 4 to 18 GHz	
06 K 121-K20 S3	straight	RPC-TNC female - female, calibration adaptor	$\geq 30$ dB @ DC to 4 GHz $\geq 20$ dB @ 4 to 18 GHz	

## Adaptor (Inter Series)

Ordering Number	Version	Remarks	Return Loss	
06 S 132-S00 S3	straight	RPC-TNC male - SMA male	$\geq 19$ dB @ DC to 18 GHz	
06 S 132-K00 S3	straight	RPC-TNC male - SMA female	$\geq 19$ dB @ DC to 18 GHz	
06 K 132-S00 S3	straight	RPC-TNC female - SMA male	$\geq 19$ dB @ DC to 18 GHz	
06 K 132-K00 S3	straight	RPC-TNC female - SMA female	$\geq 19$ dB @ DC to 18 GHz	
06 S 107-P20 S3	straight	RPC-TNC male - RPC-7, calibration adaptor	$\geq 30$ dB @ DC to 4 GHz $\geq 20$ dB @ 4 to 18 GHz	
06 K 107-P20 S3	straight	RPC-TNC female - RPC-7, calibration adaptor	$\geq 30$ dB @ DC to 4 GHz $\geq 20$ dB @ 4 to 18 GHz	
03 K 706-S23 S3	straight	RPC-3.50 female - RPC-TNC male, 2-hole flange, floating test adaptor	$\geq 35$ dB @ DC to 2.5 GHz $\geq 25$ dB @ 2.5 GHz to 6 GHz $\geq 20$ dB @ 6 GHz to 16 GHz $\geq 17$ dB @ 16 GHz to 18 GHz	
05 S 106-S00 S3	straight	RPC-N 50 Ω male - RPC-TNC male	$\geq 20$ dB @ DC to 18 GHz	
05 S 106-S20 S3	straight	RPC-N 50 Ω male - RPC-TNC male, calibration adaptor	$\geq 30$ dB @ DC to 4 GHz $\geq 20$ dB @ 4 GHz to 18 GHz	

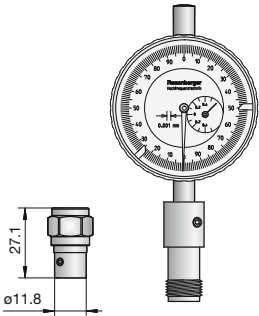
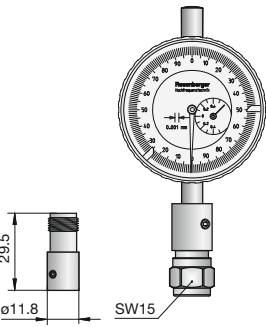
Ordering Number	Version	Remarks	Return Loss	
05 S 106-K00 S3	straight	RPC-N 50 $\Omega$ male - RPC-TNC female	$\geq 20$ dB @ DC to 18 GHz	
05 K 106-S00 S3	straight	RPC-N 50 $\Omega$ female - RPC-TNC male	$\geq 20$ dB @ DC to 18 GHz	
05 K 106-K00 S3	straight	RPC-N 50 $\Omega$ female - RPC-TNC female	$\geq 20$ dB @ DC to 18 GHz	
05 K 106-K20 S3	straight	RPC-N 50 $\Omega$ female - RPC-TNC female, calibration adaptor	$\geq 30$ dB @ DC to 4 GHz $\geq 20$ dB @ 4 GHz to 18 GHz	

**Tools**

Torque Wrench

Ordering Number	Remarks	
06 W 021-000	flat 15 mm - 55 Ncm torque for RPC-TNC	

Gauge

Ordering Number	Remarks	
06 W 00S-000	compatible to male connectors for RPC-TNC incl. gauge block	
06 W 00K-000	compatible to female connectors for RPC-TNC incl. gauge block	

RPC-TNC