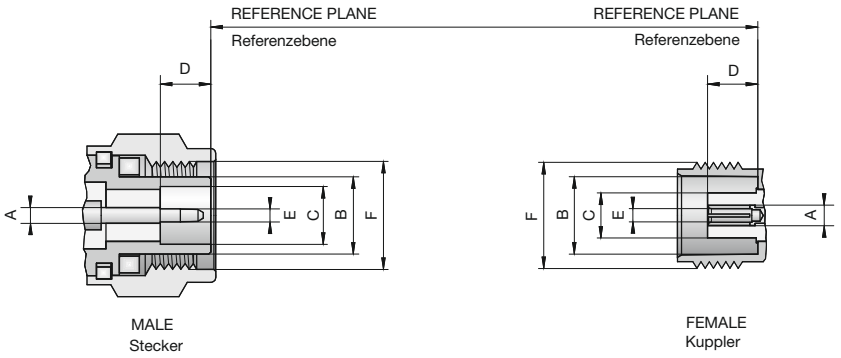
Interface Dimensions Series RPC-TNC (code 06)



Series RPC-TNC

	Male | *Stecker*		Female | *Kuppler*	
dimension	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

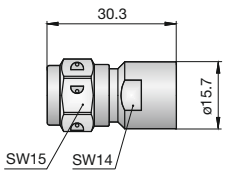
Applicable standards | *Anwendbare Standards*	
Interface according to | *Interface gemäß*	IEC 60169-26
Electrical data | *Elektrische Daten*	
Impedance | *Wellenwiderstand*	50 Ω
Frequency range | *Frequenzbereich*	DC to 18 GHz
Return loss (connector head) | *Rückflußdämpfung (Steckerkopf)*	≥ 23 dB, DC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

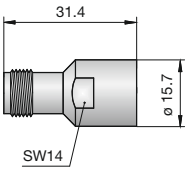
Rosenberger-Steckverbinder erfüllen grundsätzlich die in den Technischen Daten angegebenen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte von Steckverbindern hiervon abweichen. Spezifische Datenblätter zu einzelnen Produkten erhalten Sie auf Anfrage von Ihrem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

Connector Heads

Straight Plug

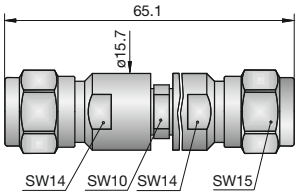
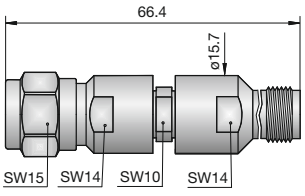
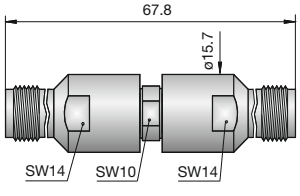
Ordering Number	Remarks	Return Loss	
06 S 121-000 S3	with bead	≥ 23 dB @ DC to 18 GHz	
06 S 121-002 S3	with bead, coupling nut without wire-lock	≥ 23 dB @ DC to 18 GHz	

Straight Jack

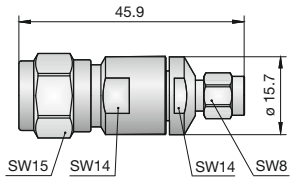
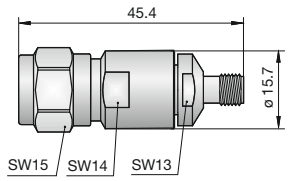
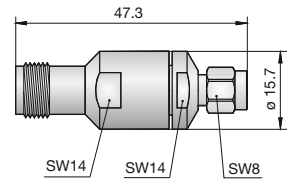
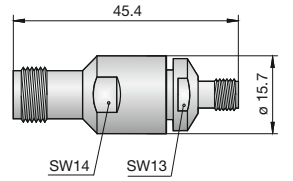
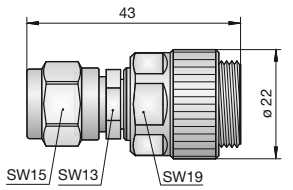
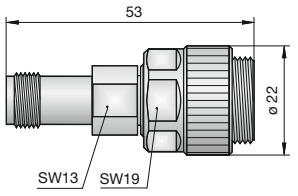
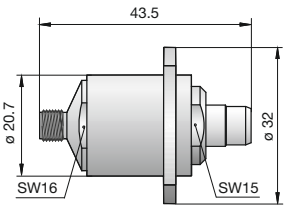
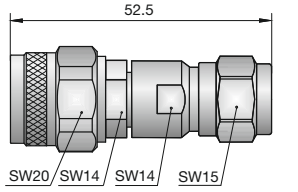
Ordering Number	Remarks	Return Loss	
06 K 121-000 S3	with bead	≥ 23 dB @ DC to 18 GHz	

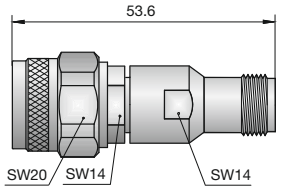
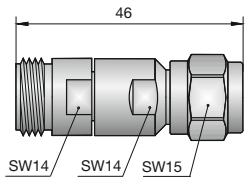
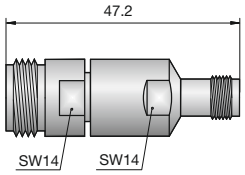
Adaptors

Adaptor (In Series)

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

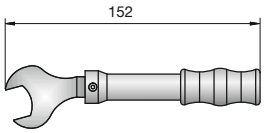
Adaptor (Inter Series)

Ordering Number	Version	Remarks	Return Loss	
06 S 132-S00 S3	straight	RPC-TNC male - SMA male	≥ 19 dB @ DC to 18 GHz	
06 S 132-K00 S3	straight	RPC-TNC male - SMA female	≥ 19 dB @ DC to 18 GHz	
06 K 132-S00 S3	straight	RPC-TNC female - SMA male	≥ 19 dB @ DC to 18 GHz	
06 K 132-K00 S3	straight	RPC-TNC female - SMA female	≥ 19 dB @ DC to 18 GHz	
06 S 107-P20 S3	straight	RPC-TNC male - RPC-7, calibration adaptor	≥ 30 dB @ DC to 4 GHz ≥ 20 dB @ 4 to 18 GHz	
06 K 107-P20 S3	straight	RPC-TNC female - RPC-7, calibration adaptor	≥ 30 dB @ DC to 4 GHz ≥ 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	≥ 35 dB @ DC to 2.5 GHz ≥ 25 dB @ 2.5 GHz to 6 GHz ≥ 20 dB @ 6 GHz to 16 GHz ≥ 17 dB @ 16 GHz to 18 GHz	
05 S 106-S00 S3	straight	RPC-N 50 Ω male - RPC-TNC male	≥ 20 dB @ DC to 18 GHz	
05 S 106-S20 S3	straight	RPC-N 50 Ω male - RPC-TNC male, calibration adaptor	≥ 30 dB @ DC to 4 GHz ≥ 20 dB @ 4 GHz to 18 GHz	

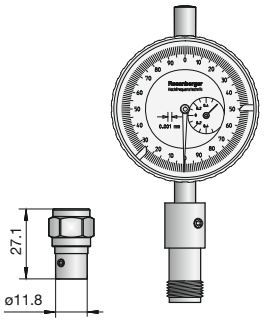
Ordering Number	Version	Remarks	Return Loss	
05 S 106-K00 S3	straight	RPC-N 50 Ω male - RPC-TNC female	≥ 20 dB @ DC to 18 GHz	
05 K 106-S00 S3	straight	RPC-N 50 Ω female - RPC-TNC male	≥ 20 dB @ DC to 18 GHz	
05 K 106-K00 S3	straight	RPC-N 50 Ω female - RPC-TNC female	≥ 20 dB @ DC to 18 GHz	
05 K 106-K20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