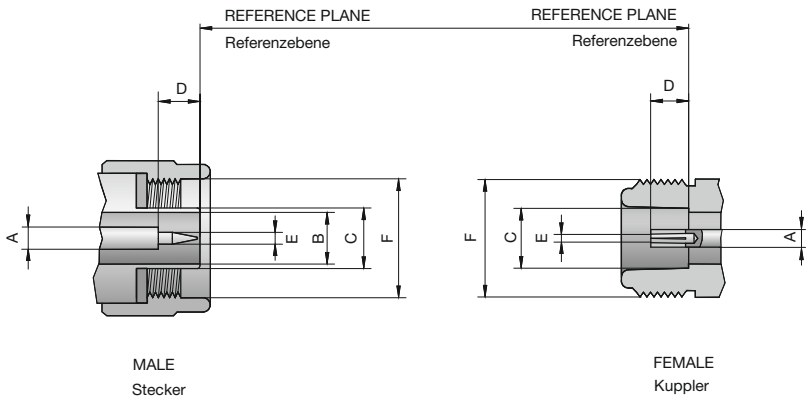
Interface Dimensions Series RPC-N, 75 Ω (code P5)



Series RPC-N, 75 Ω

	Male | *Stecker*		Female | *Kuppler*	
dimension	min.	max.	min.	max.
A	2.00	2.02	2.00	2.02
B	6.99	7.01	6.99	7.01
C	7.98	8.02	8.05	8.10
D	5.28	5.36	5.18	5.26
E	0.864	0.914		
F	5/8-24UNEF-2B		5/8-24UNEF-2A	

Technical Data Series RPC-N, 75 Ω

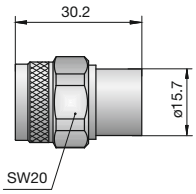
Applicable standards | *Anwendbare Standards*	
Interface according to | *Interface gemäß*	IEC 61169-16; CECC 22 210; MIL-STD 348A/402
Electrical data | *Elektrische Daten*	
Impedance | *Wellenwiderstand*	75 Ω
Frequency range | *Frequenzbereich*	DC to 4 GHz
Return loss (connector head) | *Rückflußdämpfung (Steckerkopf)*	≥ 36 dB, DC to 4 GHz
Insertion loss (connector head) | *Dämpfung (Steckerkopf)*	≤ 0.03 dB x |f[GHz]
Insulation resistance | *Isolationswiderstand*	≥ 5 GΩ
Center contact resistance | *Übergangswiderstand Innenleiter*	≤ 1.0 mΩ
Outer contact resistance | *Übergangswiderstand Außenleiter*	≤ 1.0 mΩ
Test voltage | *Prüfspannung*	2500 V rms
Working voltage | *Betriebsspannung*	1000 V rms
RF-leakage | *Schirmdämpfung*	≥ 90 dB up to 1 GHz
Mechanical data | *Mechanische Daten*	
Mating cycles | *Steckzyklen*	≥ 500
Center contact captivation | *Innenleiter Haltekraft*	≥ 28 N
Coupling torque recommended | *Anzugsdrehmoment empfohlen*	0.70 Nm to 1.10 Nm
Coupling test torque | *Prüfdrehmoment*	1.70 Nm
Environmental data | *Umweltdaten*	
Temperature range | *Temperaturbereich*	-40 °C to +85 °C
Thermal shock | *Temperaturzyklen*	IEC 61169-1, Subclause 9.4.4
Corrosion resistance | *Korrosionsbeständigkeit*	IEC 61169-1, Subclause 9.4.6
Vibration | *Vibration*	IEC 61169-1, Subclause 9.3.3
Shock | *Schock*	IEC 61169-1, Subclause 9.3.14
Moisture resistance | *Feuchtigkeitsbeständigkeit*	IEC 61169-1, Subclause 9.4.3
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 | *Dielektrikum*	PS, PEI

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.

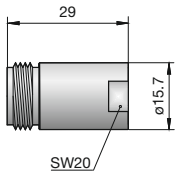
Rosenberger-Steckverbinder erfüllen grundsätzlich die in den Technischen Daten angegebenen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte von Steckverbindern hiervon abweichen. Spezifische Datenblätter zu einzelnen Produkten erhalten Sie auf Anfrage von Ihrem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

Connector Heads

Straight Plug

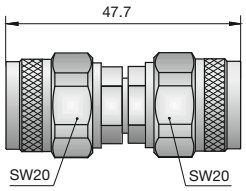
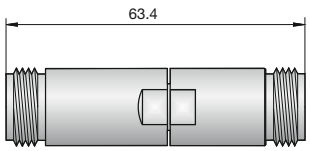
Ordering Number	Remarks	Return Loss	
P5 S 121-000 CS	with bead	≥ 36 dB @ DC to 4 GHz	

Straight Jack

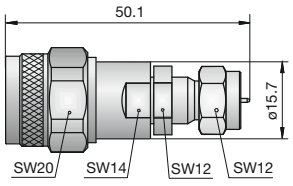
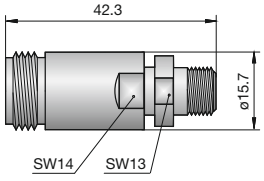
Ordering Number	Remarks	Return Loss	
P5 K 121-000 CS	with bead	≥ 36 dB @ DC to 4 GHz	

Adaptors

Adaptor (In Series)

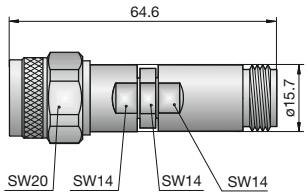
Ordering Number	Version	Remarks	Return Loss	
P5 S 121-S20 CS	straight	RPC-N 75 Ω male - male, calibration adaptor	≥ 38 dB @ DC to 2 GHz ≥ 34 dB @ 2 GHz to 4 GHz	
P5 K 121-K20 CS	straight	RPC-N 75 Ω female - female, calibration adaptor	≥ 38 dB @ DC to 2 GHz ≥ 34 dB @ 2 GHz to 4 GHz	

Adaptor (Inter Series)

Ordering Number	Version	Remarks	Return Loss	
P5 S 174-S20 CS	straight	RPC-N 75 Ω male - F male, calibration adaptor	≥ 32 dB @ DC to 3 GHz ≥ 28 dB @ 3 GHz to 4 GHz	
P5 K 174-K20 CS	straight	RPC-N 75 Ω female - F female, calibration adaptor	≥ 32 dB @ DC to 3 GHz ≥ 28 dB @ 3 GHz to 4 GHz	

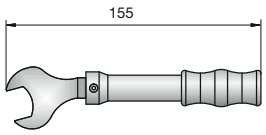
DC-Block

DC-Block RPC-N 75 Ω male - female

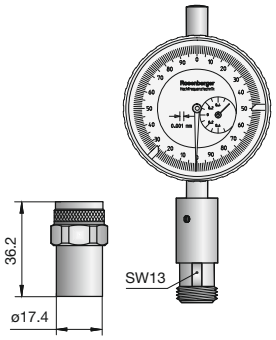
Ordering Number	Version	Return Loss	Insertion Loss	
P5 DS 121-K01 CS	straight	≥ 25 dB @ 4 MHz to 1 GHz ≥ 21 dB @ 1 GHz to 4 GHz	< 1 dB @ 4 MHz to 4 GHz	

Tools

Torque Wrench

Ordering Number	Remarks	
53 W 009-000	flat 20 mm - 1,1 Nm torque for RPC-N 50 Ω , RPC-N 75 Ω	

Gauge

Ordering Number	Remarks	
P5 W 00S-000	compatible to male connectors for RPC-N 75 Ω incl. gauge block	
05 W 00K-000	compatible to female connectors for RPC-N 50 Ω , RPC-N 75 Ω incl. gauge block