

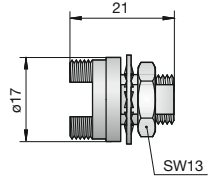
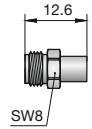
## Technical Data RPC-SL 40 GHz

<b>Applicable standards   Anwendbare Standards</b>	
Interface according to   <i>Interface gemäß</i>	Interchangeable port connector system
<b>Electrical data   Elektrische Daten</b>	
Impedance   <i>Wellenwiderstand</i>	50 $\Omega$
Frequency range   <i>Frequenzbereich</i>	DC to 40 GHz
Return loss (mated pair)   <i>Rückflußdämpfung (gestecktes Paar)</i>	$\geq 19$ dB, DC to 40 GHz
Insertion loss (mated pair)   <i>Dämpfung (gestecktes Paar)</i>	$\leq 0.04$ dB x $f$ [GHz]
Insulation resistance   <i>Isolationswiderstand</i>	$\geq 5$ G $\Omega$
Center contact resistance   <i>Übergangswiderstand Innenleiter</i>	$\leq 3.0$ m $\Omega$
Outer contact resistance   <i>Übergangswiderstand Außenleiter</i>	$\leq 2.0$ m $\Omega$
Test voltage   <i>Prüfspannung</i>	750 V rms
Working voltage   <i>Betriebsspannung</i>	250 V rms
RF-leakage   <i>Schirmdämpfung</i>	$\geq 100$ dB up to 1 GHz
<b>Mechanical data   Mechanische Daten</b>	
Mating cycles   <i>Steckzyklen</i>	$\geq 3000$
Center contact captivation   <i>Innenleiter Haltekraft</i>	$\geq 22$ N
Coupling torque recommended   <i>Anzugsdrehmoment empfohlen</i>	2.0 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, gold-plated
Dielectric   <i>Dielektrikum</i>	PS

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.

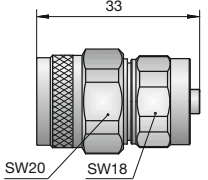
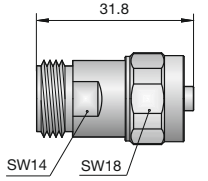
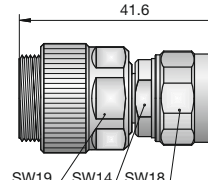
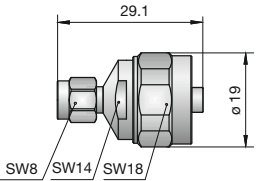
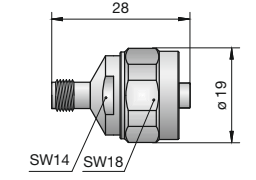
*Rosenberger-Steckverbinder erfüllen grundsätzlich die in den Technischen Daten angegebenen Daten. Je nach Anwendung, Bauart, Kabeltyp, Montageart und -ausführung können einzelne Werte von Steckverbindern hiervon abweichen. Spezifische Datenblätter zu einzelnen Produkten erhalten Sie auf Anfrage von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

## Adaptor and Cable Clamp RPC-SL 40 GHz

Ordering Number	Version	Remarks	Return Loss	Cable Group	Assembly Instruction	Panel Piercing / PCB Layout	
P4 K 52A-K00 S3	straight	RPC-SL 40 GHz female - female, panel mount, round flange	$\geq 21$ dB @ DC to 26.5 GHz $\geq 16$ dB @ 26.5 to 40 GHz			MB 82	
02 Z 001-2W9 D	straight	RPC-2.92 cable clamp for P4K52A-K00S3, UT 118		W9	03 A		

Test Cables & Interchangeable Port Connectors

## Adaptor RPC-SL 40 GHz

Ordering Number	Version	Remarks	Return Loss	
05 S 1P4-S00 S3	straight	RPC-N 50 $\Omega$ male - RPC-SL 40 GHz male, max. Frequency 18 GHz	$\geq 21$ dB @ DC to 18 GHz	
05 K 1P4-S00 S3	straight	RPC-N 50 $\Omega$ female - RPC-SL 40 GHz male, max. Frequency 18 GHz	$\geq 21$ dB @ DC to 18 GHz	
07 P 1P4-S00 S3	straight	RPC-7 - RPC-SL 40 GHz male, max. Frequency 18 GHz	$\geq 21$ dB @ DC to 18 GHz	
02 S 1P4-S00 S3	straight	RPC-2.92 male - RPC-SL 40 GHz male	$\geq 21$ dB @ DC to 26.5 GHz $\geq 19$ dB @ 26.5 to 40 GHz	
02 K 1P4-S00 S3	straight	RPC-2.92 female - RPC-SL 40 GHz male	$\geq 21$ dB @ DC to 26.5 GHz $\geq 19$ dB @ 26.5 to 40 GHz	

Ordering Number	Version	Remarks	Return Loss	
09 S 1P4-S00 S3	straight	RPC-2.40 male - RPC-SL 40 GHz male	$\geq 21$ dB @ DC to 26.5 GHz $\geq 19$ dB @ 26.5 GHz to 40 GHz	
09 K 1P4-S00 S3	straight	RPC-2.40 female - RPC-SL 40 GHz male	$\geq 21$ dB @ DC to 26.5 GHz $\geq 19$ dB @ 26.5 GHz to 40 GHz	

## Torque Wrench

Ordering Number	Remarks	
04 W 021-000	flat 18 mm - 2 Nm torque for RPC-SL 26.5 GHz, RPC-SL 40 GHz	