

**Electrical characteristics:**

Characteristic impedance:	50 $\Omega$
Frequency range:	DC... 12 GHz
Return Loss:	DC to 350 MHz $\leq$ - 30 dB
	350 to 1000 MHz $\leq$ - 28 dB
	1000 to 2000 MHz $\leq$ - 25 dB
Insertion Loss:	$\leq$ 0.1 dB
Isolation resistance:	$\geq$ 5x10 <sup>3</sup> M $\Omega$
Center contact resistance:	$\leq$ 1 m $\Omega$
Outer contact resistance:	$\leq$ 0.2 m $\Omega$
Test voltage:	2400 V rms
Working voltage:	800 V rms
Intermodulation:	$\leq$ -117 dBm @ 2 x 20 W
Power handling:	800 W @ 1 GHz
	500 W @ 2 GHz

**Mechanical characteristics:**

Coupling torque:	0.7...1.1Nm
Coupling nut retention:	450 N
Center contact retention force:	28 N
Connecting operations:	$\geq$ 500

**Connector parts:**

	<b>Material</b>	<b>Plating</b>
Outer contact:	Brass	Optargen
Center contact:	Spring bronze	Au 1.27 $\mu$ m
Body:	Brass	Optargen
Insulator:	PTFE	
Gasket:	Silicone	

**Dimensions:**

Mating dimensions:	according MIL-C-39012
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**Environmental data:**

Temperature range:	-55 $^{\circ}$ C to +125 $^{\circ}$ C
Quality test:	MIL-STD-202
Climatic class:	IEC 60068 55 / 125 / 21
Waterproof:	IEC 60529 IP56 (mated Interfaces)

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SPEC2  
0499/TC

Sta	Revision	Date	Name	Date	Name
				Drawn	17.12.99 Fang
				Checked	
a	03-s227	02.09.03	FR	STD	
4	Return Loss	04.10.00	FR	Dept.	TCC PG1
3	Env.	18.09.00	FR		
2	Rev.	13.07.00	FR		
1	New	17.12.99	FR		
				<b>Rosenberger®</b>	
				Repl. f:	Repl. by:

**Specification**

**53S10A-0N9 N3**

**Straight Plug**

**N, for cable RG 8**

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