

### Description

N connectors have a characteristic impedance of  $50\Omega$  and are applicable with excellent electrical properties up to 18 GHz depending on the connector & cable type. The screw-type coupling mechanism provides a sturdy and reliable connection.

N connectors are available for flexible cables, for semi-rigid cables and for corrugated copper tube cables.

### Typical Specification

Connector Type	N
Interface	Male (Plug)
Geometry	Straight
Cable Size	1/2"
Cable Type	Superflexible Foam Dielectric

### Electrical Specification

Impedance	$50\Omega$
Frequency Range	DC to 11GHz
Dielectric Withstand Voltage	2500 V rms @ 50 Hz
Working Voltage	$\leq 1000$ V rms @ 50 Hz
Insulation Resistance	$\geq 5 \times 10^3$ M $\Omega$
Inner Contact Resistance	$\leq 0.4$ m $\Omega$
Outer Contact Resistance	$\leq 1.5$ m $\Omega$
RF leakage (at 1GHz)	$\geq 90$ dB

### VSWR

0.8 - 1.0 GHz	$\leq 1.04$
1.7 - 2.0 GHz	$\leq 1.09$
2.0 - 3.0 GHz	$\leq 1.14$

### Mechanical Specification

Coupling Nut Torque	0.68 Nm
Contact Captivation	$\geq 28$ N
Durability (Matings)	$\geq 500$

### Environmental Specification

Temperature Range	- 65°C to +165°C
Corrosion	As per MIL. STD.
Vibration	As per MIL. STD.

### Material Specification

Connector Parts	Material	Plating
Bodies	Brass	Nickel
Pin contacts	Brass	Silver
Insulators	PTFE	
Gaskets	Silicone Rubber	

Model No: SVT-100-NMS-050-SF

