



High Precision VNA Microwave / RF Cables



Features

- Precision microwave cable assembly capable of frequencies up to 67GHz with excellent VSWR, low insertion loss, phase and amplitude stability.
- These cable assemblies include NMD connectors providing solid light weight construction which can mate directly with VNA ports.
- The cable assemblies deliver reliable and repeatable test results when subject to bending, crushing and other rigorous test conditions.

Electrical Specifications, $T_A=25^\circ\text{C}$

Parameters	Min.	Typ.	Max.	Units
Frequency Range	DC		18	GHz
Insertion Loss			1.50	dB
VSWR			1.20	:1
Amplitude Stability			± 0.05	dB
Phase Stability			± 2.0	degrees
Maximum Outer Diameter	15.2			mm
Minimum Bend Radius	50			mm
Mating Cycles	>2000			
Recommended Torque	1.35-2/1.35			Nm
Operating Temperature	0 to +40			$^\circ\text{C}$
Weight				ounces
Impedance	50			Ω
Input / Output Connectors	NMD 3.5mm-female/N-female			
Connector Body	stainless steel, passivated			
Connector Center Conductor	gold-plated beryllium copper			
Outer Jacket	multilayer armour			

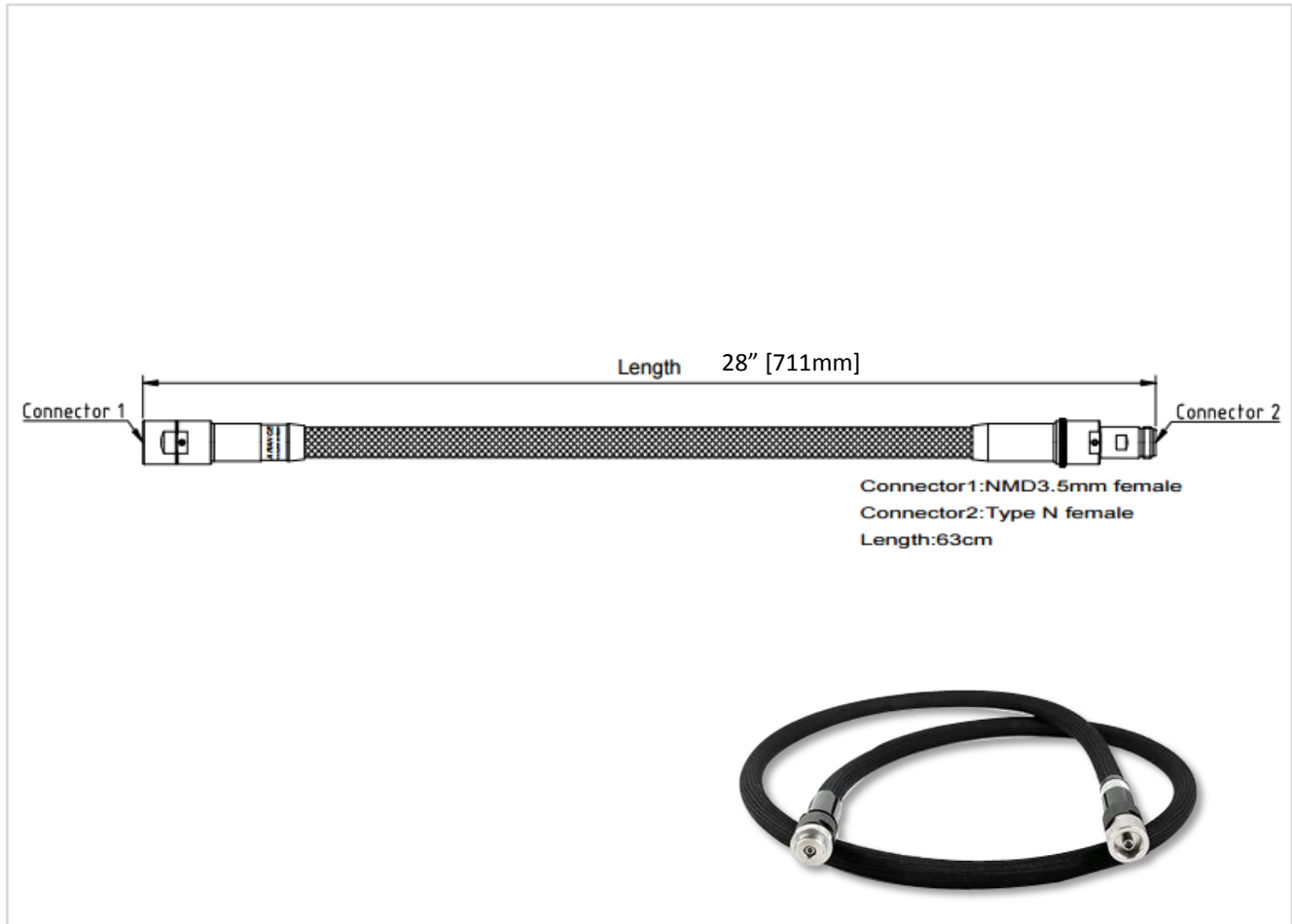
Environmental Specifications

Operational Temperature	0 to +40 $^\circ\text{C}$
Storage Temperature	-40 to +75 $^\circ\text{C}$
Altitude	30,000 ft. (Epoxy Seal Controlled environment)
	60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35 $^\circ\text{C}$, 95%RH at 40 $^\circ\text{C}$
Shock	20G for 11msc half sine wave, 3 axis both directions
Compression Resistance	>920kgf/cm



Outline Drawing:

All Dimensions in inches [mm]



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