

VNA26 Series (NMD3.5 Male-ST to NMD3.5 Female-ST)

Test Cable for Vector Network Analyzer, 50ohms, DC-26.5GHz



VNA26-83-0R-"L" (L: Length)

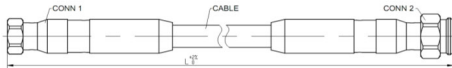
Maximum Ratings

Operating Temperature	23°C ± 5°C
Storage Temperature	-55°C to +85°C
Permanent damage may occur if any of these limits are exceeded	

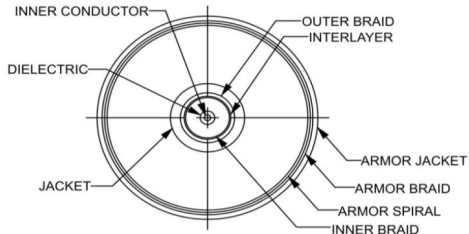
Cable Diameter	15.3mm	
Velocity of Propagation	76%	
Shielding Effectiveness	>90dB	
Power Handling at 40°C	1 GHz	149W
	2 GHz	102W
	6GHz	56W
	12 GHz	38W
	18 GHz	30W
	26.5 GHz	24W
Min. Bending Radius	1.97" (50mm)	

Outline Drawing

Unit [mm]



Cable Cross Section



Cable Construction

Inner Conductor	-
Dielectric	-
Inner Braid	-
Interlayer	-
Outer Braid	-
Jacket	-

Connectors

- Nut, Stainless steel, Passivated
- Body, Stainless steel, Passivated
- Center contacts, Berillium Copper, Gold plated
- Dielectric, PEI, Natural

Product Guarantee*

Micable will repair or replace your cable assembly if it fails within six months after shipment. This guarantee excludes product damage from misuse or abuse

Features

- Ultra-wideband operation, DC to 26.5 GHz
- 3.5mm Rugged Female connector for direct interface with 20 GHz VNA ports
- Low insertion loss and excellent return loss
- Extra rugged construction includes protective shield and strain relief for longer life
- Stainless steel connector for long mating-cycle life
- Excellent amplitude and phase stability vs flexure and shaking

Applications

- Vector network analyzer (VNA) test cables

Electrical Specifications at 25°C

Freq. (GHz)	Length	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 3		3-6		6-18		18-26.5		DC - 3		3-6		6-18		18-26.5	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-26.5	2FT	0.6	0.7	0.8	1.0	1.5	1.7	2.0	2.2	1.06	1.1	1.08	1.15	1.2	1.25	1.25	1.3
	3FT	0.8	0.9	1.1	1.3	2.1	2.3	2.8	3.0								
	1M	0.9	1.0	1.2	1.4	2.3	2.5	2.9	3.1								

Typical Performance Data (VNA26-83-0R-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.10
1000	1.04	0.46
2000	1.05	0.67
4000	1.06	0.98
5000	1.07	1.11
6000	1.08	1.23
7000	1.09	1.34
8000	1.10	1.45
9000	1.11	1.55
10000	1.12	1.64
12000	1.14	1.83
13000	1.15	1.91
15000	1.17	2.08
18000	1.20	2.32
26500	1.25	2.93

