

VNA67 Series (SMD1.85 female-ST to NMD1.85 Female-ST)

Test Cable for Vector Network Analyzer, 50ohms, DC-67GHz



VNA67-0Y-1V-"L" (L: Length)

Maximum Ratings

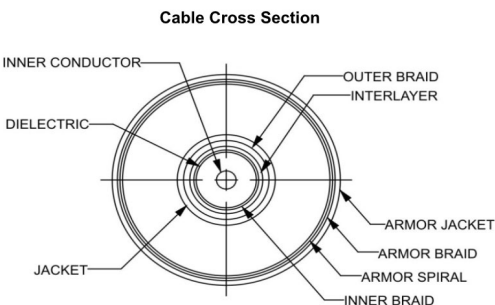
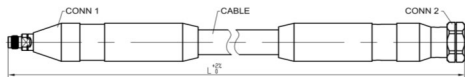
Operating Temperature 23°C± 5°C

Storage Temperature -45°C to +85°C

Permanent damage may occur if any of these limits are exceeded

Cable Diameter	15.3mm
Velocity of Propagation	80%
Shielding Effectiveness	>90dB
Power Handling at 40°C	1 GHz 115W
	6GHz 59W
	18 GHz 34W
	26.5 GHz 27W
	40 GHz 22W
	50 GHz 20W
	67 GHz 17W
Min. Bending Radius	1.97" (50mm)

Outline Drawing Unit [mm]



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 67 GHz
- 1.85mm Rugged Female connector for direct interface with 67 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 - 18		18-40		40-50		50-67		DC - 18		18-40		40-50		50-67	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-67	2FT	2.0	2.3	3.4	3.8	3.8	4.2	4.2	4.8	1.15	1.25	1.22	1.30	1.26	1.35	1.31	1.35
	3FT	2.9	3.2	4.8	5.1	5.6	6.0	6.0	6.4								
	1M	4.1	4.3	5.2	5.5	6.1	6.4	6.6	6.9								

Typical Performance Data (VNA67-0Y-1V-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.10
1000	1.04	0.62
2000	1.05	0.95
4000	1.07	1.41
5000	1.10	1.59
6000	1.11	1.80
7000	1.13	1.90
8000	1.12	2.05
9000	1.15	2.18
10000	1.11	2.37
12000	1.14	2.62
15000	1.12	2.91
16000	1.13	3.13
18000	1.15	3.30
20000	1.14	3.56
26500	1.17	4.02
40000	1.22	5.25
50000	1.26	6.02
67000	1.31	6.64

