AT67 Series (1.85 Female-ST to 1.85 Female-ST)

, 50ohm, DC-67GHz

AT67-0Y-0Y-"L" (L: Length)

Maximum Ratings

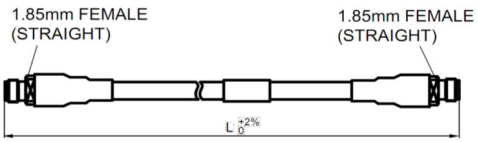
Operating Temperature 23°C ± 5°C

Storage Temperature -55°C to +125°C

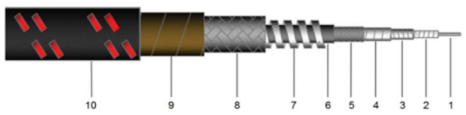
Permanent damage may occur if any of these limits are exceeded

Cable Diameter		6.0mm
Velocity of Propagation		80%
Shielding Effectiveness		>100dB
Power Handling at 40°C	1 GHz	115W
	6GHz	45W
	18 GHz	25W
	26.5 GHz	20W
	40 GHz	17W
	50 GHz	15W
	67 GHz	12W
Min. Bending Radius		50mm

Outline Drawing



Cable Cross Section



1. Center Conductor: *Solid SPC*
2. Dielectric: *ND-PTFE*
3. Inner Shield: *SPC Strip*
4. Inter layer: *PTFE Tape*
5. Outer Shield: *SPC Braid*
6. Inner Jacket: *FEP*
7. Crush Member: *Stainless Steel Spiral Spring*
8. Braided Strength Member: *Stainless Steel Braid*
9. Outer Binder: *PTFE Film Tape with Silicone Adhesive*
10. Outer Jacket: *PTFE Braid*

Connectors
• 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
- Ideal VSWR and measurement accuracy
- Excellent amplitude and phase stability vs flexure and shaking
- Reinforced connector, multilayer armor structure to protect cable against compression, tension, torsion and abrasion

Applications

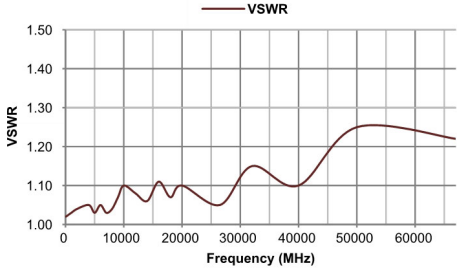
- Lab and production line test
- 5G Massive MIMO and antenna OTA test
- 5G switch and attenuator matrices systems
- Phase array test systems
- RF/Microwave test systems

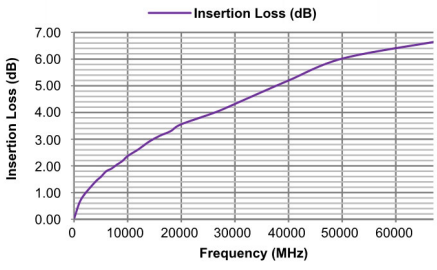
Electrical Specifications at 25°C

Freq. (GHz)	Length (M)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 26.5		26.5-40		40-50		50-67		DC - 26.5		26.5-40		40-50		50-67	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-67	2FT	2.6	2.8	3.3	3.6	3.8	4.1	4.3	4.6	1.11	1.25	1.12	1.30	1.25	1.35	1.33	1.35
	3FT	3.8	4.0	4.8	5.1	5.6	5.9	6.1	6.4								
	0.8m	3.3	3.5	4.2	4.5	4.9	5.2	5.4	5.7								
	1m	4.1	4.3	5.2	5.5	6.1	6.4	6.6	6.9								

Typical Performance Data (AT67-0P-0Y-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.05
1000	1.03	0.62
2000	1.04	0.95
4000	1.05	1.41
5000	1.03	1.59
6000	1.05	1.80
7000	1.03	1.90
8000	1.04	2.05
9000	1.07	2.18
10000	1.10	2.37
12000	1.08	2.62
14000	1.06	2.91
16000	1.11	3.13
18000	1.07	3.30
20000	1.10	3.56
26500	1.05	4.02
32000	1.15	4.50
40000	1.10	5.20
50000	1.25	6.02
67000	1.22	6.64





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