

B67 Series (1.85 Female-ST to 1.85 Female-ST)

Cable Assembly, 50ohms, DC-67GHz

B67-0Y-0Y-"L" (L: Length, >0.15M)

Maximum Ratings

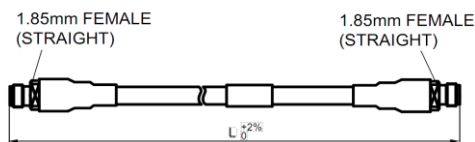
Operating Temperature -55°C to +125°C

Storage Temperature -55°C to +125°C

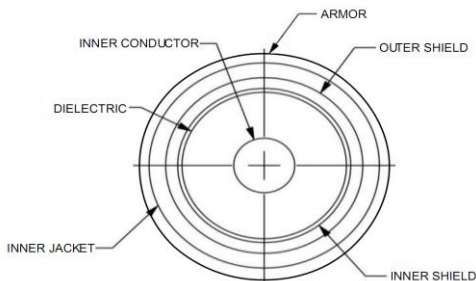
Permanent damage may occur if any of these limits are exceeded

Cable Diameter	2.54mm	
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	5mm	

Outline Drawing



Cable Cross Section



Cable Construction	
Inner Conductor	-
Dielectric	-
Inner Braid	-
Interlayer	-
Outer Braid	-
Jacket	FEP

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

- Super flexible with minimum bending radius of 5 mm
 - Extremely low loss with 6dB/m @ 67GHz
 - Excellent shielding effectiveness >100 dB
 - Excellent phase stability vs temperature 500ppm@-40~+70°C
 - Very stable performance during bending and shaking
 - Amplitude Stability: $\leq \pm 0.1\text{dB}@67\text{GHz}$
 - Phase Stability vs. Flexure: $\pm 4^\circ@67\text{GHz}$
- (When wrapped 360° around a 25.4mm radius mandrel)

Applications

- 5G Massive MIMO and antenna OTA test
- 5G switch and attenuator matrices systems
- In-box and board to board connection
- High-density integrated connection
- Lab and production line test
- Product temperature cycle test
- Military and commercial 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	0.3	1.4	1.6	1.7	2.0	2.1	2.4	2.4	2.7	1.11	1.25	1.12	1.30	1.25	1.35	1.33	1.35
	0.5	2.2	2.4	2.7	3.0	3.2	3.5	3.6	3.9								
	0.8	3.3	3.5	4.2	4.5	4.9	5.2	5.4	5.7								
	1	4.1	4.3	5.2	5.5	6.1	6.4	6.6	6.9								

Typical Performance Data (B67-0Y-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

