

# B32L Series (N Male-RA to N Male-RA)

Cable Assembly, 50ohms, DC-18GHz



## B32L-50-50-"L" (L: Length)

### Maximum Ratings

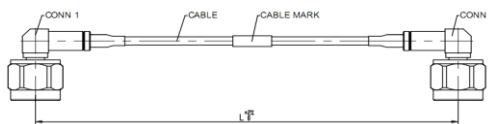
Operating Temperature -55°C to +85°C

Storage Temperature -55°C to +85°C

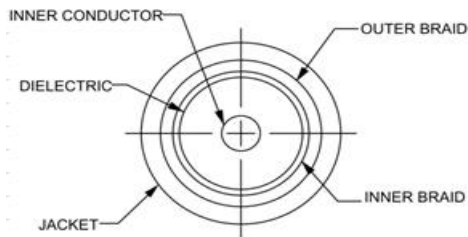
Permanent damage may occur if any of these limits are exceeded

Cable Diameter	3.50mm	
Velocity of Propagation	76%	
Shielding Effectiveness	>90dB	
Power Handling at 40°C	1 GHz	460W
	6 GHz	182W
	12GHz	126W
	16 GHz	106W
	18 GHz	99W
Min. Bending Radius	14mm	

Outline Drawing Unit [mm]



Cable Cross Section



Cable Construction	
Inner Conductor	SPC, Solid
Dielectric	ND-PTFE
Inner Braid	Aluminum Foil
Outer Braid	Silver-Plated Copper Braid
Jacket	FEP

Connectors	
● Nut, Stainless steel, Passivated	
● Body, Stainless steel, Passivated	
● Center contacts, Brass, Gold plated	
● Dielectric, PTFE	

### 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

- Flexible
- Super high shielding effectiveness >90dB
- Ideal for interconnect between modules and racks
- Low loss: cable insertion loss <1.88dB/m@18GHz
- Very stable performance during flexing and shaking
  - Amplitude Stability: <±0.05dB@18GHz
  - Phase Stability vs. Flexure: <±2°@18GHz
 (When wrapped 360° around a 35mm radius mandrel)

### Applications

- Replacement for .141" semi-rigid cables
- Interconnect between modules and racks
- Test systems
- Military and commercial systems

### Electrical Specifications at 25°C

Freq. (GHz)	Length (M)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 3		3-6		6-12		12-18		DC - 3		3-6		6-12		12-18	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-18	0.5	0.5	0.6	0.6	0.8	0.9	1.1	1.0	1.3	1.09	1.15	1.12	1.20	1.16	1.25	1.22	1.30
	1.5	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.2								

### Typical Performance Data (B32L-50-50-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.04
1000	1.07	0.34
2000	1.02	0.50
3000	1.09	0.68
4000	1.10	0.75
5000	1.05	0.91
6000	1.12	1.02
7000	1.13	1.07
8000	1.06	1.13
9000	1.15	1.21
10000	1.10	1.32
12000	1.16	1.45
15000	1.20	1.68
18000	1.17	1.91

