

B16 Series (2.4 Female-ST to 2.4 Female-ST)

CXN3507, Cable Assembly, 50ohms, DC-40GHz



B16-48-48-"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	3.60mm	
Velocity of Propagation	85%	
Shielding Effectiveness	>90dB	
Power Handling at 40°C	1 GHz	110W
	2 GHz	79W
	6GHz	43W
	12 GHz	31W
	18 GHz	25W
	26.5 GHz	20W
40 GHz	16W	
Min. Bending Radius	25.4mm	

Features

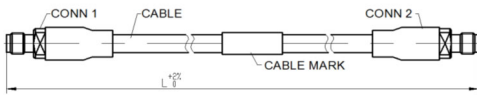
- Stainless steel connectors for long mating-cycle life
- High shielding effectiveness, >90dB
- Excellent phase stability over temperature, 500ppm@-55°C~+85°C
- Extremely low loss, low VSWR

Applications

- Phase array radars
- Rack to rack connection
- RF/Microwave test systems
- Airborne, shipborne and ground systems

Outline Drawing

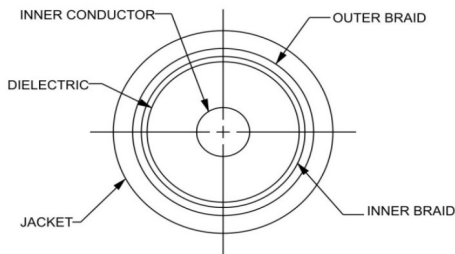
Unit [mm]



Electrical Specifications at 25°C

Freq. (GHz)	Length (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 6		6-18		18-26.5		26.5-40		DC - 6		6-18		18-26.5		26.5-40	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-40	0.5	0.6	0.8	1.0	1.2	1.2	1.5	1.6	1.9	1.14	1.20	1.20	1.25	1.27	1.35	1.33	1.40
	1	1.0	1.2	1.8	2.1	2.4	2.7	2.9	3.2								
	1.5	1.4	1.6	2.7	3.0	3.3	3.6	4.2	4.5								

Cable Cross Section



Cable Construction

Inner Conductor	Solid Silver Plated Coppe
Dielectric	LD-PTFE
Inner Braid	Silver-Plated Copper Strip
Outer Braid	Silver-Plated Copper Braid
Jacket	PFA

Connectors

- Body, Stainless steel, Passivated
- Center contacts, Beryllium, 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

Typical Performance Data (B16-48-48-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.05	0.05
1000	1.09	0.44
2000	1.11	0.62
4000	1.12	0.89
5000	1.13	0.99
6000	1.14	1.10
7000	1.15	1.18
8000	1.16	1.27
9000	1.17	1.35
10000	1.18	1.42
12000	1.20	1.57
15000	1.22	1.76
16000	1.23	1.82
18000	1.24	1.94
20000	1.25	2.06
26500	1.27	2.38
31000	1.29	2.55
34000	1.31	2.68
38000	1.32	2.84
40000	1.33	2.91

