

B12 Series (3.5mm Male-ST to 3.5mm Male-ST)

CXN3449, Cable Assembly, 50ohms, DC-26.5GHz



B12-47-47-"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	4.8mm	
Velocity of Propagation	85%	
Shielding Effectiveness	>90dB	
Power Handling at 20°C	1 GHz	261W
	3 GHz	153W
	6 GHz	107W
	12GHz	75W
	18 GHz	62W
	26.5 GHz	48W
Min. Bending Radius	25.4mm	

Features

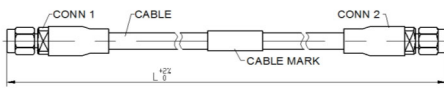
- Stainless steel connectors for long mating-cycle life
- High shielding effectiveness, >90dB
- Excellent phase stability over temperature, 500ppm@-55°C~+85°C
- Extremely low loss, low VSWR
- High power handling
- Good phase tracking performance

Applications

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

Outline Drawing

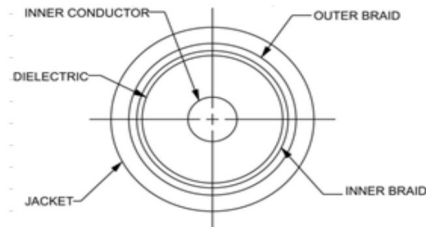
Unit [mm]



Electrical Specifications at 25°C

Freq. (GHz)	Length (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 6		6-12		12-18		18-26.5		DC - 6		6-12		12-18		18-26.5	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-26.5	0.5	0.5	0.6	0.6	0.8	0.7	0.9	0.9	1.2	1.12	1.20	1.18	1.25	1.24	1.30	1.30	1.35
	1	0.7	0.9	1.0	1.2	1.2	1.5	1.5	1.8								
	1.5	0.9	1.1	1.5	1.7	1.8	2.1	2.2	2.5								

Cable Cross Section



Typical Performance Data (B12-47-47-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.03
1000	1.05	0.25
2000	1.07	0.35
3000	1.09	0.43
4000	1.10	0.50
5000	1.11	0.57
6000	1.12	0.64
7000	1.13	0.72
8000	1.14	0.79
9000	1.15	0.85
10000	1.16	0.90
12000	1.18	0.99
15000	1.21	1.15
18000	1.24	1.24
26500	1.30	1.46

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

- 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

