

B12Y Series (TNC Male-ST to TNC Male-ST)

High Performance Cable Assembly, 50ohms, DC-18GHz



B12Y-11-11-"L" (L: Length)

Maximum Ratings

Operating Temperature -55°C to +85°C

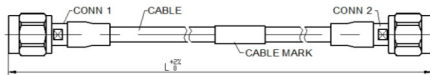
Storage Temperature -55°C to +85°C

Permanent damage may occur if any of these limits are exceeded

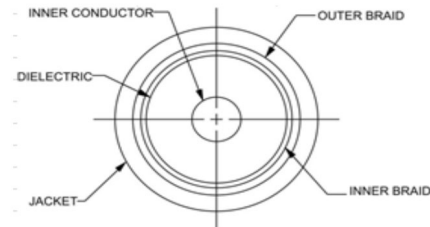
Cable Diameter		4.9mm
Velocity of Propagation		83%
Shielding Effectiveness		>90dB
Power Handling at 20°C	1 GHz	595W
	2 GHz	421W
	6 GHz	232W
	12GHz	182W
	16 GHz	175W
	18 GHz	163W
Min. Bending Radius		1.0" (25.4mm)

Outline Drawing

Unit [mm]



Cable Cross Section



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

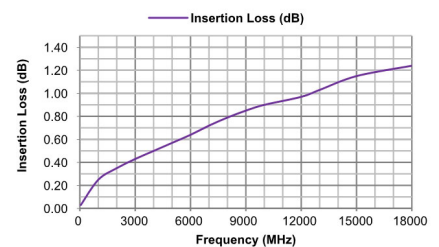
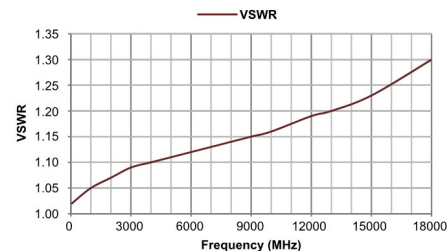
- Phase array radars
- Rack to rack connection
- RF/Microwave test systems
- Airborne, ground and sea-based systems

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	0.4	0.5	0.5	0.6	0.6	0.8	0.7	0.9	1.09	1.15	1.12	1.20	1.18	1.25	1.30	1.35
	1	0.5	0.7	0.7	0.9	1.0	1.2	1.2	1.5								
	1.5	0.7	0.9	0.9	1.1	1.5	1.7	1.8	2.1								

Typical Performance Data (B12Y-11-11-1M)

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	1.19	0.97
13000	1.20	1.03
15000	1.23	1.15
18000	1.30	1.24



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