

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

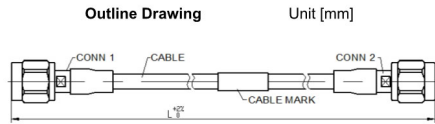
Cable Diameter	4.9mm	
Velocity of Propagation	83%	
Shielding Effectiveness	>90dB	
Power Handling at 20°C	1 GHz	595W
	2 GHz	421W
	6 GHz	232W
	12GHz	182W
	16 GHz	175W
18 GHz	163W	
Min. Bending Radius	1.0" (25.4mm)	

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

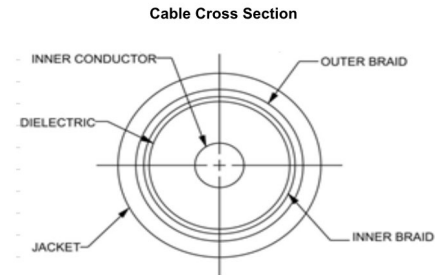
Applications

- 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

Cable Construction	
Inner Conductor	Solid Silver Plated Copper
Dielectric	LD-PTFE
Inner Braid	Silver-Plated Copper Strip
Outer Braid	Silver-Plated Copper Braid
Jacket	FEP

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

