

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

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



B12Y-01-01-"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

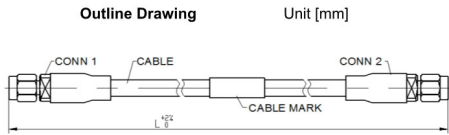
Cable Diameter	4.9mm	
Velocity of Propagation	83%	
Shielding Effectiveness	>90dB	
Power Handling at 20°C	1 GHz	590W
	2 GHz	414W
	6 GHz	221W
	12GHz	172W
	16 GHz	165W
18 GHz	153W	
Min. Bending Radius	20mm	

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

Applications

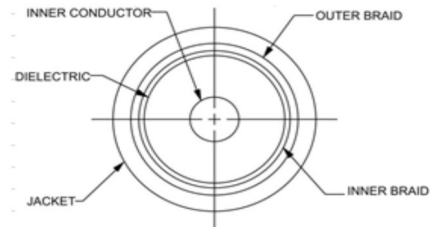
- Phase array radars
- Rack to rack connection
- RF/Microwave test systems
- Airborne, ground and shipborne systems



Electrical Specifications at 25°C

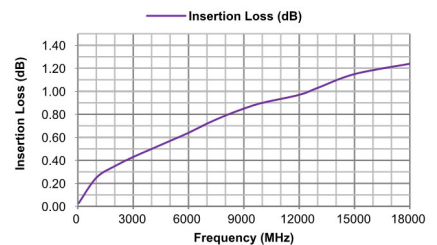
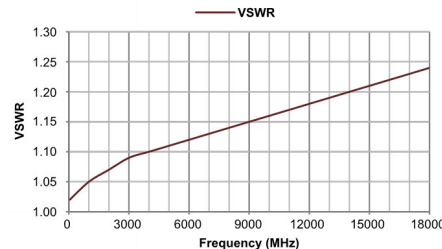
Freq. (GHz)	Length (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC - 3		3-6		6-12		12-18		DC - 3		3-6		6-12		12-18	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-18	0.5	0.4	0.5	0.5	0.6	0.6	0.8	0.7	0.9	1.09	1.15	1.12	1.20	1.18	1.25	1.24	1.30
DC-18	1	0.5	0.7	0.7	0.9	1.0	1.2	1.2	1.5								
DC-18	1.5	0.7	0.9	0.9	1.1	1.5	1.7	1.8	2.1								

Cable Cross Section



Typical Performance Data (B12Y-01-01-1M)

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	0.97
13000	1.19	1.03
15000	1.21	1.15
18000	1.24	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