

B15 Series (2.92 Female-ST to 2.92 Female-ST)

Cable Assembly, 50ohms, DC-40GHz



B15-46-46-"L" (L: Length)

Maximum Ratings

Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +85°C
<i>Permanent damage may occur if any of these limits are exceeded</i>	

Cable Diameter	3.9mm
Velocity of Propagation	81%
Shielding Effectiveness	>90dB

Power Handling at 40°C	1 GHz	125W
	2 GHz	93W
	6GHz	52W
	12 GHz	37W
	18 GHz	29W
	26.5 GHz	22W
40 GHz	18W	
Min. Bend Radius	16mm	

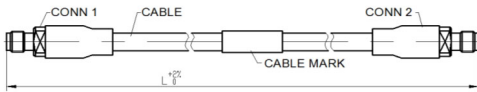
Features

- Super flexible & durable
- Long bending life
- Low VSWR
- High shielding effectiveness, >90dB
- Excellent phase stability over temperature, 500ppm@-55°C~+85°C
- Good phase stability over flexure, <±5°@40GHz
- Stainless steel connectors for long mating-cycle life

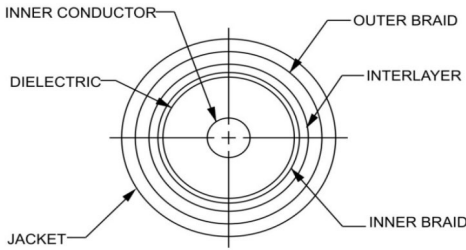
Applications

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

Outline Drawing Unit [mm]



Cable Cross Section



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

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

Electrical Specifications at 25°C

Freq. (GHz)	Length	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	0.7	0.8	1.0	1.3	1.4	1.7	1.7	2.0	1.08	1.15	1.18	1.25	1.22	1.30	1.26	1.35
	0.8	0.9	1.1	1.6	1.9	2.1	2.4	2.5	2.9								
	1	1.1	1.3	2.0	2.3	2.5	2.8	3.1	3.5								
	1.5	1.6	1.8	2.9	3.2	3.7	4.0	4.6	5.0								
	2	2.1	2.3	3.9	4.2	4.9	5.2	6.1	6.5								

Typical Performance Data (B15-46-46-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.10
1000	1.04	0.38
2000	1.05	0.56
4000	1.06	0.81
5000	1.07	0.91
6000	1.08	1.11
7000	1.09	1.20
8000	1.10	1.28
9000	1.11	1.37
10000	1.12	1.44
12000	1.13	1.58
15000	1.15	1.81
18000	1.18	1.93
26500	1.22	2.49
40000	1.26	3.10

