

B01 Series (2.92 Male-ST to 2.92 Male-ST)

IW1501, Cable Assembly, 50ohms, DC-40GHz



B01-40-40-"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	3.81mm	
Velocity of Propagation	84%	
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. Bending Radius	12.7mm	

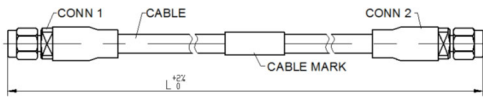
Features

- Stainless steel connectors for long mating-cycle life
- High shielding effectiveness, >90dB
- Excellent phase stability over temperature, 630ppm@-55°C~+85°C
- Extremely low loss, low VSWR

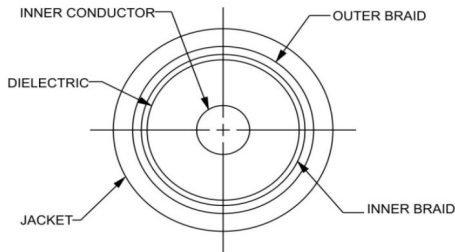
Applications

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

Outline Drawing Unit [mm]



Cable Cross Section



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, Berillium Copper, Gold plated	
• Dielectric, PEEK, 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 (m)	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	1	1.1	1.2	2.0	2.3	2.4	2.7	2.9	3.2	1.14	1.20	1.20	1.25	1.27	1.35	1.31	1.35

Custom sizes available, consult factory.

Typical Performance Data (B01-40-40-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.05	0.05
1000	1.09	0.44
2000	1.11	0.62
4000	1.12	0.89
5000	1.13	0.99
6000	1.14	1.10
7000	1.15	1.18
8000	1.16	1.27
9000	1.17	1.35
10000	1.18	1.42
12000	1.20	1.57
15000	1.22	1.76
16000	1.23	1.82
18000	1.24	1.94
20000	1.25	2.06
26500	1.27	2.38
31000	1.28	2.48
34000	1.29	2.57
38000	1.30	2.77
40000	1.31	2.91

