

# B08 Series (2.92 Male-ST to 2.92 Male-ST)

CXN3506, Cable Assembly, 50ohms, DC-40GHz



## B08-40-40-"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

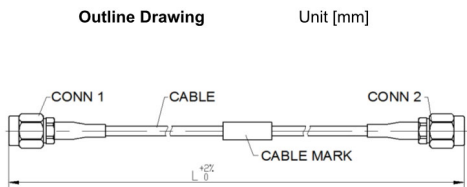
Cable Diameter	2.2mm	
Velocity of Propagation	82%	
Shielding Effectiveness	>90dB	
Power Handling at 40°C	1 GHz	138W
	2 GHz	91W
	6GHz	52W
	12 GHz	35W
	18 GHz	28W
	26.5 GHz	24W
40 GHz	18W	
Min. Bending Radius	12.7mm	

### Features

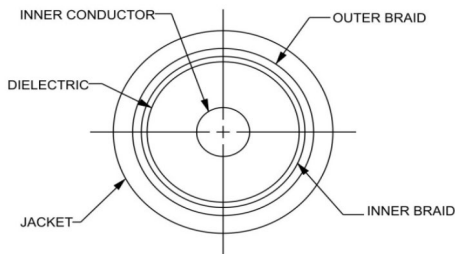
- Extremely low loss
- Stainless steel connector for long mating-cycle life
- Good amplitude and phase stability vs flexing and shaking
- Good phase stability vs temperature 500ppm@-55~+85°C
- Excellent shielding effectiveness, >90dB
- Super flexible with 5 mm bend radius

### Applications

- Phas array radars
- Massive MIMO and antenna OTA test
- Lab and production line test



### 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	PFA

Connectors	
● Nut, Stainless steel, Passivated	
● Body, Brass, Gold plated	
● Center contacts, Beryllium 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 (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	0.3	0.7	0.8	1.0	1.3	1.4	1.7	1.8	2.1	1.14	1.20	1.24	1.30	1.27	1.35	1.33	1.40
	0.5	0.9	1.1	1.6	1.9	2.1	2.4	2.8	3.1								
	1	1.7	1.9	3.2	3.5	4.1	4.4	5.2	5.6								
	1.5	2.5	2.7	4.7	5.0	6.0	6.3	7.8	8.2								

### Typical Performance Data (B08-40-40-1M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.05	0.05
1000	1.09	0.59
2000	1.11	0.86
4000	1.12	1.25
5000	1.13	1.44
6000	1.14	1.71
7000	1.15	1.83
8000	1.16	2.02
9000	1.17	2.15
10000	1.18	2.34
12000	1.20	2.50
15000	1.22	2.98
16000	1.23	3.06
18000	1.24	3.22
20000	1.25	3.45
26500	1.27	4.09
31000	1.29	4.37
34000	1.31	4.68
38000	1.33	5.02
40000	1.35	5.21

