B16 Series (2.92 Male-ST to 2.92 Male-ST)

CXN3507, Cable Assembly, 50ohms, DC-40GHz

B16-40-40-"L" (L: Length)

Maximum Ratings

Operating Temperature -55°C to +85°C

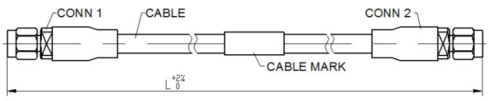
Storage Temperature -55°C to +85°C

Permanent damage may occur if any of these limits are exceeded

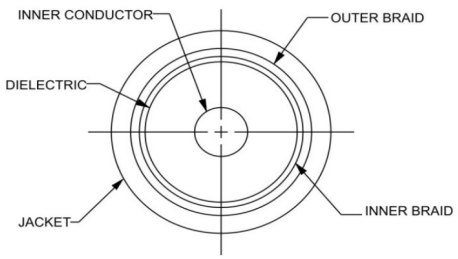
Cable Diameter		3.60mm
Velocity of Propagation		85%
Shielding Effectiveness		>90dB
Power Handling at 40°C	1 GHz	125W
	2 GHz	93W
	6GHz	52W
	12 GHz	37W
	18 GHz	29W
	26.5 GHz	22W
	40 GHz	18W
Min. Bending Radius		25.4mm

Outline Drawing

Unit [mm]



Cable Cross Section



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

Connectors
• Nut, Stainless steel, Passivated
• Body, Stainless steel, Passivated
• Center contacts,Beryllium, 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

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

Applications

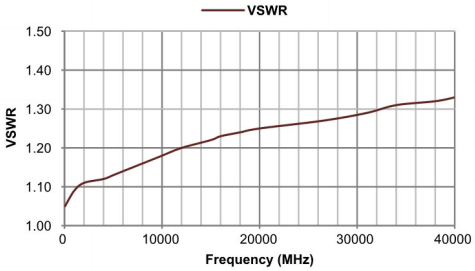
- Phase array radars
- Rack to rack connection
- RF/Microwave test systems
- Airborne, shipborne and ground systems

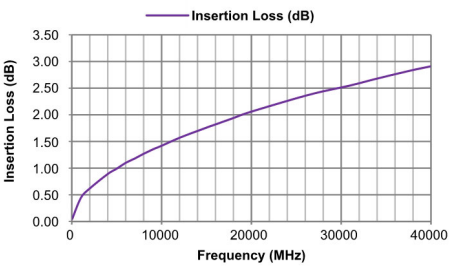
Electrical Specifications at 25°C

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	0.5	0.6	0.8	1.0	1.2	1.2	1.5	1.6	1.9								
	1	1.0	1.2	1.8	2.1	2.4	2.7	2.9	3.2	1.14	1.20	1.20	1.25	1.27	1.35	1.33	1.40
	1.5	1.4	1.6	2.7	3.0	3.3	3.6	4.2	4.5								

Typical Performance Data（B16-40-40-1M)

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	1.29	2.55
34000	1.31	2.68
38000	1.32	2.84
40000	1.33	2.91





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