

C25 Series (SMA Male-ST to SMA Male-ST)

High Mechanical Strength .047 Cable Assembly, 50ohms, DC-26.5GHz



C25-01-01-"L" (L: Length)

Maximum Ratings

Operating Temperature -55°C to +125°C

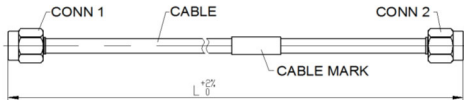
Storage Temperature -55°C to +125°C

Permanent damage may occur if any of these limits are exceeded

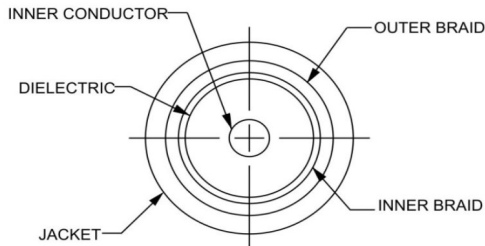
Cable Diameter		1.42mm
Velocity of Propagation		70%
Shielding Effectiveness		>100dB
Power Handling at 20°C	1 GHz	32W
	6 GHz	14W
	12 GHz	9W
	18 GHz	8W
	26.5 GHz	7W
Min. Bending Radius		3mm

Outline Drawing

Unit[mm]



Cable Cross Section



Cable Construction	
Inner Conductor	SPC, Solid
Dielectric	PTFE
Inner Braid	Silver-Plated Copper Strip
Outer Braid	High Strength SPCA Braid
Jacket	FEP

Connectors	
• Nut, Stainless steel, Passivated	
• Body, Stainless steel, Passivated	
• Center contacts, Berillium Copper, 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

Features

- Super flexible with minimum bend radius of 3 mm
 - Superior mechanical strength by extra braiding layers
 - Excellent shielding effectiveness >100 dB
 - Very stable performance during bending and shaking
 - Amplitude stability: <±0.08dB@26.5GHz
 - Phase stability vs. Flexure: ±0.7°@26.5GHz
- (When wrapped 360° around a 14.2mm radius mandrel)

Applications

- In-box and board to board connection
- High-density integrated connection
- High accuracy miniature delay line
- Military and commercial miniature systems

Electrical Specifications at 25°C

Freq. (GHz)	Length (m)	Insertion Loss (dB@GHz)								VSWR (@GHz)							
		DC.-6		6-12		12-18		18-26.5		DC.-6		6-12		12-18		18-26.5	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC- 26.5	0.2	0.7	0.9	1.0	1.2	1.2	1.5	1.5	1.9	1.10	1.15	1.17	1.20	1.20	1.25	1.22	1.30
	0.3	0.9	1.1	1.5	1.7	1.7	2.0	2.2	2.5								
	0.5	1.6	1.8	2.4	2.6	2.8	3.1	3.6	3.9								

Typical Performance Data (C25-01-01-0.2M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.08
1000	1.04	0.31
2000	1.06	0.43
3000	1.09	0.55
4000	1.07	0.61
5000	1.10	0.65
6000	1.10	0.70
7000	1.11	0.75
8000	1.12	0.80
9000	1.13	0.85
10000	1.12	0.93
12000	1.17	1.00
13000	1.14	1.05
15000	1.16	1.09
18000	1.20	1.20
26500	1.22	1.50

