

# C25F Series (SMP Female-ST to SSMP Male-RA)

Low Loss .047 Cable Assembly, 50ohms, DC-40GHz



## C25F-37-0C-"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	49W
	6 GHz	19W
	12 GHz	13W
	18 GHz	11W
	26.5 GHz	8W
Min. Bending Radius	40 GHz	7W
	3mm	

### Features

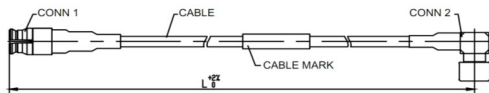
- Super flexible with minimum bend radius of 3 mm
- Cable loss <7.69dB/m @ 40GHz
- VSWR <1.55:1 @ 40GHz
- Shielding effectiveness >100 dB
- Phase stability vs temperature 400ppm@-40~+70°C
- Very stable performance during bending and shaking
  - Amplitude Stability: <±0.1dB@40GHz
  - Phase Stability vs. Flexure: ±4°@40GHz (When wrapped 360° around a 14.2mm radius mandrel)

### Applications

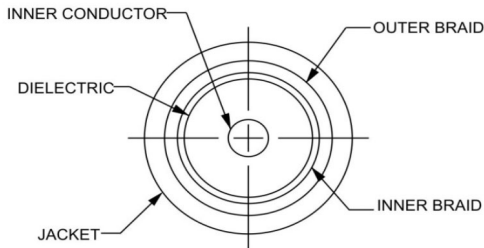
- In-box and board to board connection
- High-density integrated connection
- High accuracy miniature delay line
- 5G Massive MIMO and antenna OTA test
- Military and commercial miniature systems

Outline Drawing

Unit[mm]



Cable Cross Section



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

Connectors	
• Body, Beryllium Copper, Gold plated	
• Center contacts, Beryllium 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

### 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	0.2	0.7	0.8	1.2	1.4	1.5	1.7	1.8	2.1	1.15	1.20	1.29	1.35	1.38	1.45	1.46	1.55
	0.3	1.0	1.1	1.7	1.9	2.1	2.3	2.5	2.8								
	0.5	1.6	1.7	2.7	2.9	3.4	3.6	4.1	4.4								

### Typical Performance Data (C25F-37-0C-0.2M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.08
1000	1.04	0.22
2000	1.06	0.36
3000	1.09	0.49
4000	1.07	0.55
5000	1.10	0.61
6000	1.15	0.68
7000	1.11	0.75
8000	1.12	0.79
9000	1.17	0.86
10000	1.12	0.91
12000	1.26	0.96
15000	1.22	1.07
18000	1.29	1.17
26500	1.38	1.43
40000	1.46	1.74

