

# C25 Series (SMP Female-ST to SMP Female-RA)

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



### C25-37-38-"L" (L: Meters)

#### 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	

#### Features

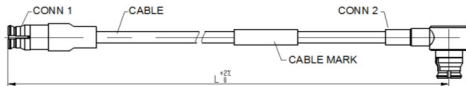
- Super flexible with minimum bend radius of 3 mm
- Superior mechanical strength by extra braiding layers
- Excellent shielding effectiveness >100 dB
- Very stable performance during bending and shaking
  - Amplitude Stability: <math>\pm 0.08\text{dB}</math>@26.5GHz
  - Phase Stability vs. Flexure: 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

#### Applications

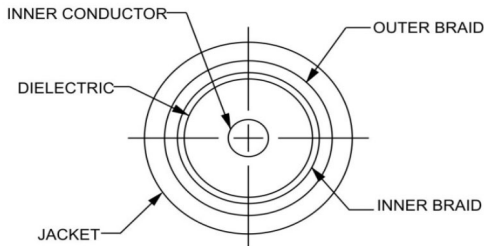
- In-box and board to board connection
- High-density integrated connection
- High accuracy miniature delay line
- Military and commercial miniature systems

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	
• Body, Berillium Copper, Gold plated	
• 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

#### 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	1.1	1.4	1.5	1.8	1.15	1.20	1.26	1.30	1.31	1.35	1.38	1.45

#### Typical Performance Data (C25-37-38-0.2M)

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	1.15	0.70
7000	1.11	0.75
8000	1.12	0.80
9000	1.17	0.85
10000	1.12	0.93
12000	1.26	1.00
13000	1.22	1.05
15000	1.16	1.09
18000	1.31	1.20
26500	1.38	1.50

