

C29S Series (2.4 Male-ST to 2.4 Male-ST)

Superbend Cable Assembly, 50ohms, DC-50GHz



C29S-39-39-"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

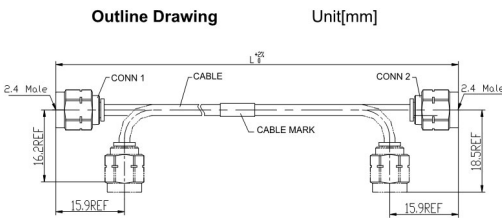
Cable Diameter	2.64mm	
Velocity of Propagation	76%	
Shielding Effectiveness	>90dB	
Power Handling at 20°C	1 GHz	103W
	18 GHz	22W
	26.5 GHz	18W
	40 GHz	14W
	50 GHz	11W
Min. Bending Radius	5.0mm	

Features

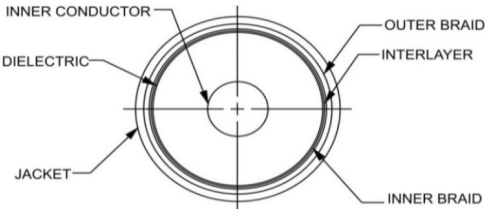
- Low loss
- Super flexible with minimum bending radius of 5mm
- High shielding effectiveness >90dB
- High retention force, >90N
- Eliminate the need for expensive right angle connector
- Very stable performance during flexing and shaking
 - Amplitude Stability: $\pm 0.08\text{dB}$@26.5GHz
 - Phase Stability vs. Flexure: $\pm 3^\circ$@26.5GHz (When wrapped 360° around a 26.4mm radius mandrel)

Applications

- 5G Massive MIMO and antenna OTA test
- 5G switch and attenuator matrixes systems
- In-box and board to board connection
- Lab and production line test
- Product temperature cycle test
- Military and commercial systems



Cable Cross Section



Cable Construction	
Inner Conductor	-
Dielectric	-
Inner Braid	-
Outer Braid	-
Jacket	FEP

Connectors	
• Nut, Stainless steel, Passivated	
• Body, Stainless steel, Passivated	
• Center contacts, Brass, 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-18		18-26.5		26.5-40		40-50		DC-18		18-26.5		26.5-40		40-50	
		Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Max.
DC-50	0.1	0.5	0.7	0.6	0.8	0.7	1.0	0.8	1.1	1.19	1.25	1.22	1.30	1.28	1.35	1.30	1.35
	0.2	0.8	1.0	0.9	1.2	1.1	1.4	1.2	1.6								
	0.3	1.0	1.2	1.2	1.5	1.5	1.8	1.7	2.1								
	0.4	1.1	1.5	1.6	1.9	2.0	2.3	2.2	2.6								
	0.5	1.6	1.8	1.9	2.2	2.4	2.7	2.7	3.1								

Typical Performance Data (C29-39-39-0.3M)

Frequency(MHz)	VSWR	Insertion Loss (dB)
50	1.02	0.08
1000	1.05	0.31
2000	1.06	0.40
2500	1.07	0.46
4000	1.09	0.54
5000	1.10	0.60
6000	1.11	0.65
7000	1.12	0.71
8000	1.13	0.76
9000	1.14	0.81
10000	1.15	0.85
12000	1.16	0.91
18000	1.19	1.04
26500	1.22	1.25
40000	1.28	1.51
50000	1.30	1.72

