

Chipset Measurement Test Cable – CM Series

Lightweight DUTs – PCB END-Launch Test • Small Diameter • Basic Specs



Available Connectors

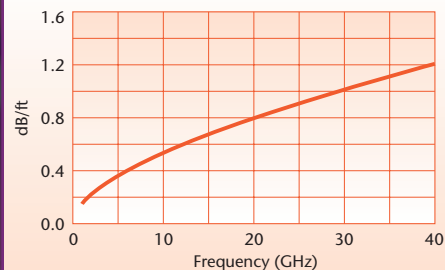
2.92mm, 3.5mm, MCX, SMA, SMB, SMC, SMP

CM Series Typical Insertion Loss_{dB}

= (Attenuation)(Length) + 2(Connector Loss)

Frequency GHz	Band	Part No.	Attenuation		Conn. Loss dB	SWR	
			dB/ft	dB/m			
0.512	UHF	CM4	0.11	0.37	0.02	1.04:1	
0.900			0.15	0.49	0.02	1.05:1	
1.000			0.16	0.52	0.02		
1.900	L		0.22	0.73	0.03		
2.000	S		0.23	0.75	0.03	1.10:1	
3.000			0.28	0.92	0.04		
4.000	C	0.33	1.08	0.04	1.15:1		
6.000		CM8	0.41	1.34	0.06		
8.000	0.48		1.57	0.07	1.20:1		
10.000	X		0.54	1.77	0.08	1.25:1	
12.400	Ku	CM18	0.61	2.00	0.08		
14.000			0.65	2.14	0.09		
18.000			0.75	2.47	0.11	1.30:1	
20.000	0.80		2.62	0.12			
22.000	K		CM26	0.84	2.77	0.13	
26.500				0.94	3.08	0.15	1.35:1
28.000	Ka	CM40		0.97	3.19	0.16	
30.000			1.01	3.32	0.17	1.40:1	
32.000			1.05	3.45	0.18		
38.000			1.16	3.81	0.22	1.45:1	
40.000			1.20	3.93	0.25		

Cable Attenuation @ STP



CM Series Electrical Data

Maximum Frequency	40 GHz
Impedance	50 Ω nominal
Propagation Velocity	75% nominal
Time Delay	1.35 ns/ft (4.43 ns/m)
Capacitance	27 pF/ft (88.6 pF/m)
Shielding Effectiveness	≥ -90 dBc

CM Series Mechanical Data

Jacketed Outer Diameter	0.126 in (3.20 mm)
Bend Radius	0.900 in (22.86 mm)
Operating Temperature Range	-85 to 275°F (-65 to +135°C)
Weight	0.030 lbs/ft (0.045 kg/m)
Flexibility Rating – Highest = 5.0	4.5

CM Series Cable Construction

Inner Conductor	Solid Ag-plated Cu
Dielectric	PTFE Tape
Outer Conductor	Triple Shield
Outer Jacket	FEP