

MegaRED™ Bench Test Cable – TM Series

Best Cost/Performance Value – ATE/ATS • BERT/Scalar/Spectrum • Lowest Cost Per Measurement™



Available Connectors

2.4mm, 2.92mm, 3.5mm, 7mm, BNC, SMA, TNC, Type N & Factory Form Right Angle Connectors

TM 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	TM4	0.08	0.27	0.02	1.04:1
0.900			0.11	0.36	0.02	1.05:1
1.000	L		0.12	0.39	0.02	
1.900	S		0.17	0.56	0.03	1.10:1
2.000			0.17	0.57	0.03	
3.000	C		0.22	0.73	0.04	1.20:1
4.000		0.26	0.86	0.04		
6.000	X	TM8	0.34	1.10	0.06	1.25:1
8.000		0.40	1.31	0.07		
10.000	Ku	TM18	0.46	1.50	0.08	1.30:1
12.400			0.53	1.74	0.08	
14.000	K	TM26	0.58	1.89	0.09	1.35:1
18.000			0.69	2.26	0.11	
20.000	Ka	TM40	0.74	2.44	0.12	1.40:1
22.000			0.79	2.61	0.13	
26.500	mm	TM50	0.91	2.99	0.15	1.45:1
28.000			0.95	3.11	0.16	
30.000			1.00	3.27	0.17	1.50:1
32.000			1.05	3.43	0.18	
38.000			1.19	3.90	0.22	
40.000			1.24	4.06	0.25	
50.000			1.47	4.82	0.32	

TM Series Electrical Data

Maximum Frequency	50 GHz
Impedance	50 Ω nominal
Propagation Velocity	69% nominal
Time Delay	1.47 ns/ft (4.82 ns/m)
Capacitance	29.0 pF/ft (95.1 pF/m)

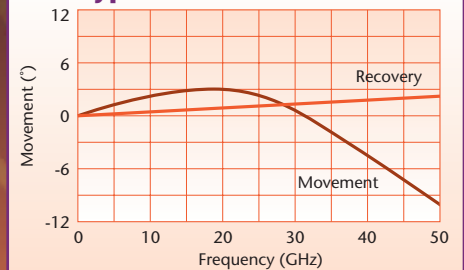
TM Series Mechanical Data

Jacketed Outer Diameter	0.285 in (7.24 mm)
Bend Radius	0.500 in (12.70 mm)
Operating Temperature Range	-31 to 212°F (-35 to +100°C)
Weight	0.045 lbs/ft (0.67 kg/m)
Flexibility Rating – Highest = 5.0	4.5

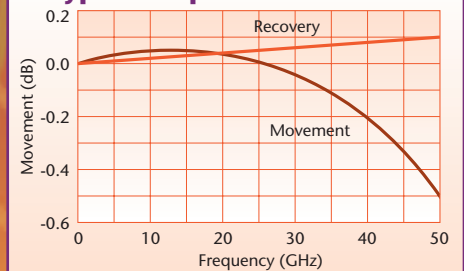
TM Series Cable Construction

Inner Conductor	Solid Ag-plated Cu
Dielectric	PTFE
Outer Conductor	Cu GrooveTube®
Ruggedization	Metal Braid
Outer Jacket	Polyolefin

Typical Phase vs. Flexure



Typical Amplitude vs. Flexure



Cable Attenuation @ STP

