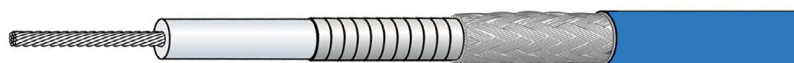




Multi Purpose Ultra Flexible
RF/Microwave Test Cable

MPUF500B



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Silver Plated Copper Wire (SPC) 19 Stranded Wire	5.00 mm (.197 inch)
Dielectric	Low Density PTFE	
Foil	Silver Plate Cooper	
Braid	Silver Plate Cooper	
Jacket	PUR-Blue	

Electrical Data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Capacitance	85 pF/m (25.9 pF/ft)
Velocity of signal propagation	76 %
Signal delay	4.38 ns/m (1.34 ns/ft)
Shielding effectiveness up to 18GHz	> 90 dB

Frequency (GHz)	Phase Stability vs Flexure ¹	Amplitude Stability vs Flexure ²	Flex Life Cycle ³
3	$\pm 0.5^\circ$ Typ. / $\pm 1.0^\circ$ Max.	± 0.005 dB Typ. / ± 0.01 dB Max.	≥ 10000
6	$\pm 0.75^\circ$ Typ. / $\pm 1.5^\circ$ Max.	± 0.075 dB Typ. / ± 0.015 dB Max.	
12	$\pm 1.0^\circ$ Typ. / $\pm 2.0^\circ$ Max.	± 0.01 dB Typ. / ± 0.02 dB Max.	
18	$\pm 1.5^\circ$ Typ. / $\pm 3.0^\circ$ Max.	± 0.015 dB Typ. / ± 0.03 dB Max.	
26.5	$\pm 2.0^\circ$ Typ. / $\pm 4.0^\circ$ Max.	± 0.02 dB Typ. / ± 0.04 dB Max.	

¹ Per IEC 60966-1, section 8.6, method 1.

² Per IEC 60966-1, section 9.3.

³ Per IEC 60966-1, section 8.4.

Mechanical Data

Weight	50 g/m (0.54 oz/ft)	
Min. bending radius	Static 20 mm (.787 inch)	Dynamic 50 mm (1.969 inch)

Environmental Data

Temperature range	-55°C to +85°C
RoHS (2002/95/EC)	compliant

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Typical Attenuation

Frequency (GHz)	Typical Attenuation (dB/m) @ 20°C sea level	Typical Attenuation (dB/ft) @ 20°C sea level	Max. CW power (Watt) @ 20°C sea level
0.3	0.204	0.062	931
1	0.385	0.117	714
2	0.559	0.170	491
3	0.698	0.213	357
6	1.03	0.314	286
8	1.22	0.372	259
10	1.39	0.424	223
12	1.55	0.472	196
16	1.84	0.561	179
18	1.98	0.604	174
26.5	2.52	0.768	156