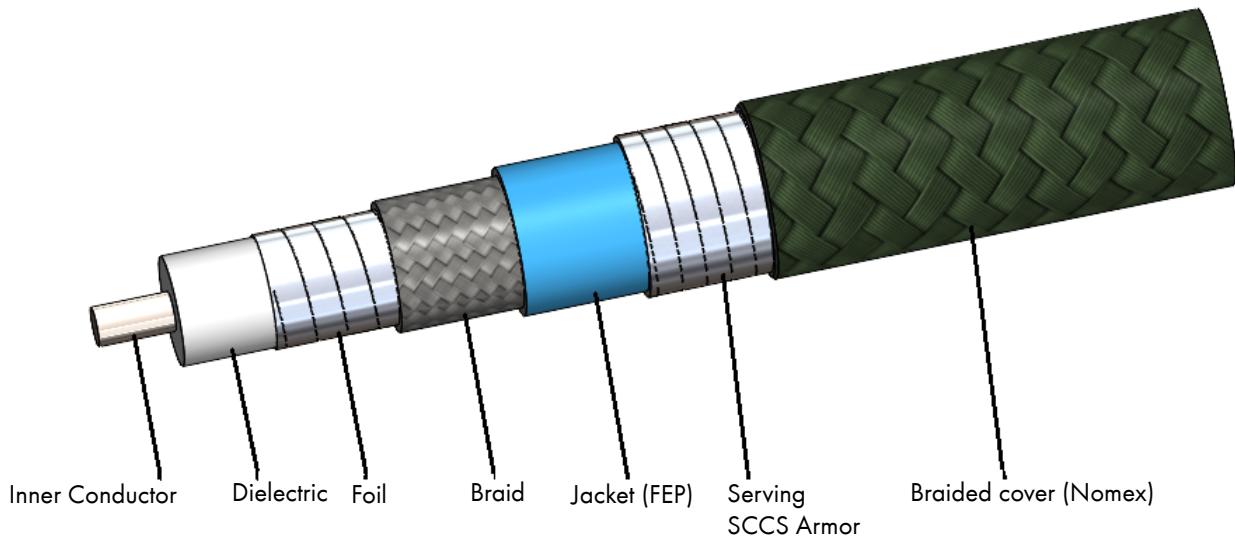




MilTest High Performance RF/Microwave Cables

MT508A



Material And Diameter

Connector parts	Material	Diameter
Inner conductor	Solid, Silver Plated Copper (SPC)	
Dielectric	EPTFE (Expanded Polytetrafluoroethylene)	
Foil	Copper, Silver plated	
Braid	Copper, Silver plated	
Jacket	FEP (Fluorinated ethylene propylene)	
Serving SCCS Armor	PTFE Binder	
Braided cover	Nomex	5.08 mm (0.200 inch)

Electrical Data

Impedance	50±2 Ω
Frequency	DC to 40 GHz
Capacitance	83.33 pF/m
Velocity of signal propagation (nominal)	80 %
Signal delay	4.16 ns/m
Screening effectiveness	> 100 dB (up to 18 GHz) >80 dB (18 to 40 GHz)

Mechanical Data

Weight	N/A
Min. bending radius	17.15mm

Environmental Data

Temperature range	-65 °C to +200 °C
RoHS (EU 2015/863)	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
0.5	0.25	0.08	727
1	0.36	0.11	500
2	0.51	0.15	370
4	0.73	0.22	260
6	0.90	0.27	210
8	1.04	0.32	180
10	1.17	0.36	160
12	1.29	0.39	150
14	1.40	0.43	140
16	1.50	0.46	125
18	1.60	0.49	120
20	1.69	0.51	115
22	1.78	0.54	110
24	1.86	0.57	105
26	1.94	0.59	100
28	2.02	0.62	99
30	2.10	0.64	97
32	2.17	0.66	95
34	2.25	0.69	90
36	2.32	0.71	85
38	2.39	0.73	80
40	2.46	0.75	75