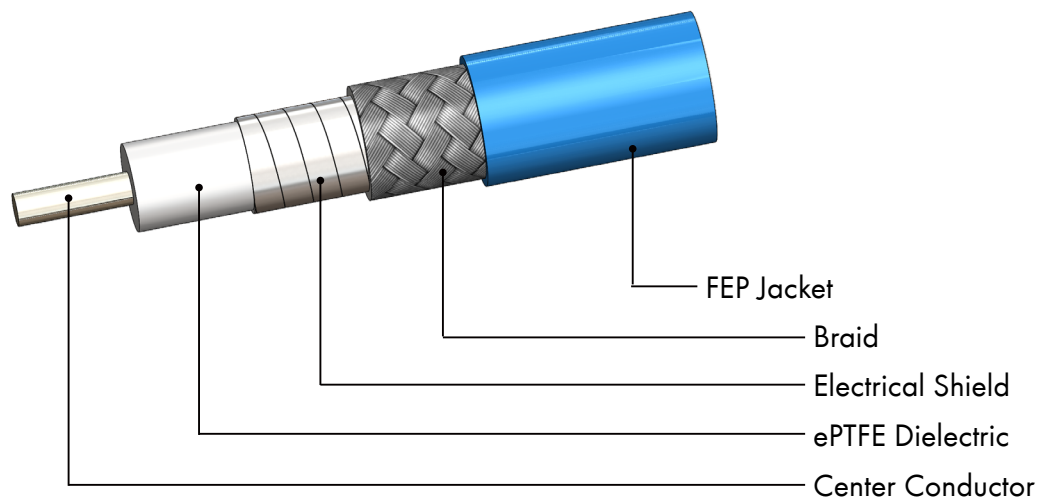


**R-Test Multi Purpose Ultra Low Loss Coaxial Cable**  
**DC-110 GHz Attenuation: 14.9dB/m @ 110GHz**

**MPUL170A1**

**Cable Construction**



**Material And Diameter**

Connector parts	Material	Diameter
Center Conductor	Solid, Silver Plated Copper (SPC)	
Dielectric	ePTFE (Expanded Polytetrafluoroethylene)	
Electrical Shield	Copper, Silver plated	
Braid	Copper, Silver plated	
Jacket	FEP (Fluorinated ethylene propylene)	1.7 mm (.067 inch)

**Electrical Data**

Impedance	50 $\Omega$
Frequency	DC to 110 GHz
Capacitance	81 pF/m
Velocity of signal propagation	N/A
Signal delay	N/A
Screening effectiveness	$\geq 90$ dB
Operating Voltage Max. ( $V_{rms}$ @ 60 Hz )	N/A
Power Handling	See chart
Phase Stability vs Bending*	N/A

\* according to IEC60966-1, wrapped 360° around a mandrel of 57 mm (2.25 in) radius

**Mechanical Data**

Weight	N/A
Min. bending radius	N/A

**Environmental Data**

Temperature range	-55°C to +165°C
RoHS (2011/65/EU)	compliant

**R-Test Multi Purpose Ultra Low Loss Coaxial Cable**  
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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
1	1.17	0.36	27
3	2.07	0.63	16
6	2.99	0.911	13
10	3.94	1.20	12
12	4.34	1.32	11
18	5.39	1.64	7
26.5	6.5	1.98	6
40	8.3	2.53	5
50	9.2	2.80	4.5
67	11.0	3.35	4
110	14.9	4.54	3