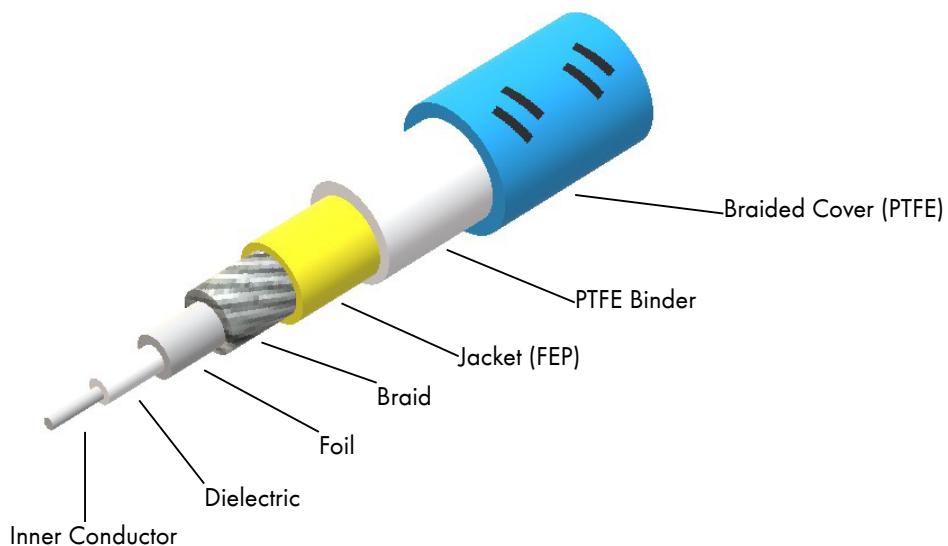




## R-Test EternalPhase Coaxial Cable

EP0457


**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)	
PTFE binder	-	
Braided cover	PTFE (Polytetrafluoroethylene)	4.57 mm (0.180 inch)

**Electrical Data**

Impedance	50 Ω
Frequency	DC to 40 GHz
Capacitance	78.74 pF/m
Velocity of signal propagation (nominal)	84 %
Signal delay	3.94 ns/m
Insulation resistance	≥ 1 × 10 <sup>8</sup> MΩ/m
Screening effectiveness	≥ 100 dB (up to 18 GHz)
Operating Voltage Max. ( Vrms @ 60 Hz )	≤ 1.9 kVrms (@ sea level)
Power Handling	See chart
Phase Stability vs Bending	±5° typ/±9.5° max
Amplitude Stability vs Bending	±0.05 dB typ/±0.10 dB max
Phase Stability vs Temp	<4°/m/GHz (-55 ~+125°C)

**Mechanical Data**

Weight	32.74 g/m
Min. bending radius	19.05 mm

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## Environmental Data

Temperature range -65 °C to +200 °C  
 RoHS (2011/65/EU) compliant

## 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	0.36	0.11	500
2	0.51	0.16	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