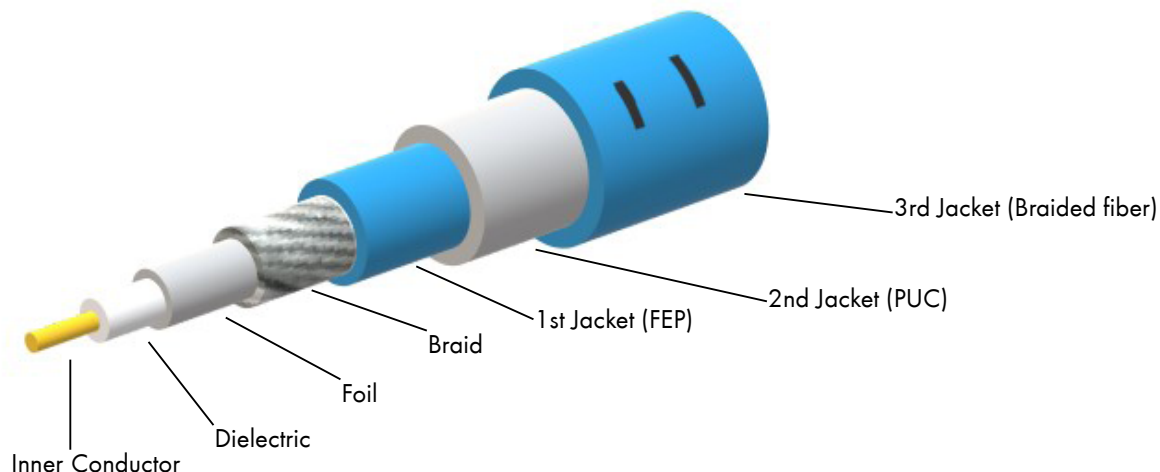




**R-Test AccuStability
Coaxial Cable**

AS50A



Material And Diameter

Connector parts	Material	Diameter
Inner conductor	Solid, Silver Plated Copper (SPC)	5.00 mm (0.197 inch)
Dielectric	LD PTFE (Low density polytetrafluoroethylene)	
Foil	Copper, Silver plated	
Braid	Copper, Silver plated	
1st Jacket	FEP (Fluorinated ethylene propylene)	
2nd Jacket	PUC (Polyurethane compound)	
3rd Jacket	Braided fiber	

Electrical Data

Impedance	50 Ω
Frequency	DC to 50 GHz
Capacitance	86.0 pF/m
Velocity of signal propagation (nominal)	80 %
Signal delay	4.00 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω /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	$\pm 6^\circ$ typ/ $\pm 11.8^\circ$ max
Amplitude Stability vs Bending	± 0.05 dB typ/ ± 0.10 dB max

Mechanical Data

Weight	N/A
Min. bending radius	5.08 mm
Flexures	≥ 10000

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Environmental Data

Temperature range -55°C to +85°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	0.46	0.14	
18	2.17	0.66	
26.5	2.69	0.82	
40	3.41	1.04	
50	3.90	1.19	