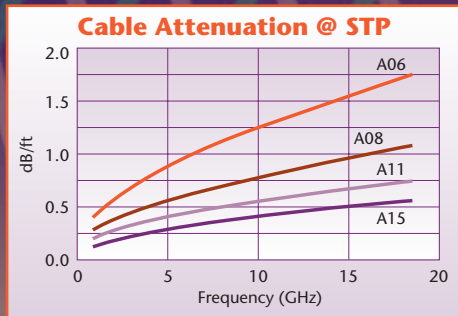
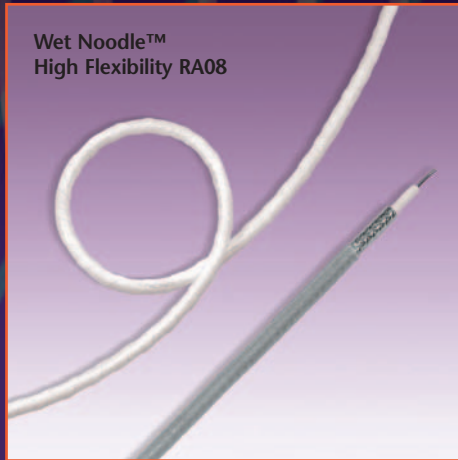


# ClearPath™ – Series A

## Cost Effective Low Loss



### Standard Connectors

- A06:** SMP, SSMP
  - A08 & A11:** MCX, SMA, SMB, SMC, SMP, SSMP
  - A15:** BNC, SMA, Type N
- Other connectors available upon request.

Note: Custom jackets available.

### ClearPath™ Typical Insertion Loss<sub>dB</sub> = (Attenuation)(Length) + 2(Connector Loss)

Frequency		Attenuation								Conn. Loss dB	SWR
		A06		A08		A11		A15			
GHz	Band	dB/ft	dB/m	dB/ft	dB/m	dB/ft	dB/m	dB/ft	dB/m		
0.450	VHF	0.26	0.84	0.15	0.50	0.10	0.34	0.08	0.26	0.01	1.05:1
0.900	UHF	0.36	1.19	0.22	0.72	0.15	0.49	0.11	0.38	0.02	1.12:1
1.000	L	0.38	1.26	0.23	0.76	0.16	0.52	0.12	0.40	0.02	1.25:1
2.000	S	0.55	1.79	0.33	1.08	0.23	0.75	0.17	0.57	0.03	
3.000		0.67	2.20	0.41	0.34	0.28	0.92	0.21	0.70	0.04	
6.000	C	0.96	3.14	0.59	0.93	0.41	1.34	0.31	1.01	0.06	
12.000	Ku	1.37	4.49	0.86	2.81	0.60	1.96	0.45	1.47	0.08	1.35:1
18.000		1.69	5.56	1.07	3.52	0.75	2.47	0.56	1.85	0.11	

### ClearPath™ Electrical Data

	A06	A08	A11	A15
Maximum Frequency	129 GHz	71 GHz	55 GHz	40 GHz
Impedance	50 Ω nominal	50 Ω nominal	50 Ω nominal	50 Ω nominal
Propagation Velocity	74% nominal	75% nominal	76% nominal	76% nominal
Time Delay	1.37 ns/ft (4.49 ns/m)	1.35 ns/ft (4.43 ns/m)	1.34 ns/ft (4.40 ns/m)	1.34 ns/ft (4.40 ns/m)
Capacitance	22.0 pF/ft (6.64 pF/m)	27.0 pF/ft (88.60 pF/m)	27.0 pF/ft (88.60 pF/m)	26.9 pF/ft (88.2 pF/m)
Shielding Effectiveness	< -85 dB minimum	< -85 dB minimum	< -85 dB minimum	< -85 dB minimum
Temperature Phase Stability	25 PPM	25 PPM	25 PPM	25 PPM
Voltage Breakdown	> 1 kV	> 3 kV	> 5 kV	> 7 kV

### ClearPath™ Mechanical Data

	A06	A08	A11	A15
Jacketed Outer Diameter	0.060 in (1.52 mm)	0.090 in (2.29 mm)	0.110 in (2.79 mm)	0.150 in (3.81 mm)
Bend Radius	0.275 in (0.70 cm)	0.400 in (1.07 cm)	0.500 in (1.27 cm)	1.800 in (4.57 cm)
Operating Temperature Range	-85 to 392°F (-65 to +200°C)		-85 to 392°F (-65 to +200°C)	
Jacketed Weight	0.010 lbs/ft (0.015 kg/m)	0.015 lbs/ft (0.022 kg/m)	0.020 lbs/ft (0.030 kg/m)	0.800 lbs/ft (2.030 kg/m)
Maximum Assembly Length	100 ft (30.48 m)	100 ft (30.48 m)	100 ft (30.48 m)	100 ft (30.48 m)
Flexibility Rating – Highest = 5.0	4.5	4.5	4.5	4.5

### ClearPath™ Cable Construction

	A06	A08	A11	A15
Inner Conductor	Solid Ag-plated Cu	Solid Ag-plated Cu	Solid Ag-plated Cu	Solid Ag-plated Cu
Dielectric	PTFE Tape	PTFE Tape	PTFE Tape	PTFE Tape
Outer Conductor	Flat Braid / Round Braid		Flat Braid / Round Braid	
Outer Jacket	FEP - G	FEP - G	FEP - G	FEP - G