

**RNL 500 Flexible Low Loss
Communications Coax**
RNL-500

Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Solid Copper Clad Aluminum Wire	3.61 mm
Dielectric	Foamed Polyethylene	9.40 mm
Outer Conductor	Aluminum Tape	9.55 mm
Overall Braid	Tinned Copper	10.29 mm
Jacket	PE	12.70 mm

Electrical Data

Impedance	50 $\Omega \pm 2$
Frequency	DC to 8 GHz
Capacitance	77.5 pF/m
Velocity of signal propagation	82 %
Signal delay	3.88 ns/m
Operating voltage	≤ 3 kVrms (@ sea level)

Mechanical Data

Weight	140 g/m
Min. bending radius	31.8 mm (Static) 127 mm (Dynamic)

Environmental Data

Temperature range	-40°C to +85°C
Installation temperature	-40°C to +85°C
RoHS (2011/65/EU)	compliant

Typical Attenuation

Frequency (GHz)	Typical Attenuation (dB/m) @ 25°C sea level	Typical Attenuation (dB/ft) @ 25°C sea level	Max. CW power (Watt) @ 40°C sea level
0.15	0.04	0.01	1931
0.45	0.07	0.02	1088
0.9	0.10	0.03	752
1.5	0.14	0.04	569
1.8	0.15	0.05	515
2.0	0.16	0.05	485
2.5	0.18	0.06	428
5.8	0.29	0.09	264
8.0	0.35	0.11	220