



**RNL 300 Flexible Low Loss
Communications Coax**

RNL-300



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Solid Bare Copper	1.78 mm
Dielectric	Foamed Polyethylene	4.84 mm
Outer Conductor	Aluminum Tape	-
Overall Braid	Tinned Copper	5.7 mm
Jacket	PVC	7.6 mm

Electrical Data

Impedance	50 $\Omega \pm 2$
Frequency	DC to 8 GHz
Capacitance	77.0 pF/m
Velocity of signal propagation	85 %
Signal delay	3.92 ns/m
Withstanding voltage (AC; 1 min)	≤ 2 kV (@ sea level)

Mechanical Data

Weight	85 g/m
Min. bending radius	22.2 mm (Static) 76.2 mm (Dynamic)

Environmental Data

Temperature range	-40°C to +85°C
Installation temperature	-40°C to +85°C

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	0.08	0.02	920
0.45	0.14	0.04	520
0.9	0.20	0.06	360
1.5	0.26	0.08	280
1.8	0.29	0.09	250
2.0	0.30	0.09	240
2.5	0.34	0.10	210
5.8	0.54	0.17	130
8.0	0.65	0.20	110