

**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	4.83 mm
Outer Conductor	Aluminum Tape	4.98 mm
Overall Braid	Tinned Copper	5.72 mm
Jacket	PE	7.62 mm

**Electrical Data**

Impedance	50 $\Omega \pm 2$
Frequency	DC to 8 GHz
Capacitance	78.4 pF/m
Velocity of signal propagation	82 %
Signal delay	3.92 ns/m
Operating voltage	$\leq 5$ kVrms (@ sea level)

**Mechanical Data**

Weight	80 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
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	0.08	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