

**RNL 240 Flexible Low Loss  
Communications Coax**
**RNL-240**

**Material And Diameter**

Connector parts	Material	Diameter
Inner Conductor	Solid Bare Copper	1.42 mm
Dielectric	Foamed Polyethylene	3.81 mm
Outer Conductor	Aluminum Tape	3.94 mm
Overall Braid	Tinned Copper	4.52 mm
Jacket	PE	6.10 mm

**Electrical Data**

Impedance	50 $\Omega \pm 2$
Frequency	DC to 8 GHz
Capacitance	79.4 pF/m
Velocity of signal propagation	83 %
Signal delay	3.97 ns/m
Operating voltage	$\leq 5$ kVrms (@ sea level)

**Mechanical Data**

Weight	50 g/m
Min. bending radius	19.1 mm (Static) 63.5 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	0.10	0.03	660
0.45	0.17	0.05	380
0.9	0.25	0.08	260
1.5	0.32	0.10	200
1.8	0.36	0.11	180
2.0	0.38	0.12	170
2.5	0.42	0.13	150
5.8	0.67	0.20	100
8.0	0.80	0.24	80