

## RNL 100A Flexible Low Loss Communications Coax

## RNL-100A



### Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Copper Clad Steel	0.46 mm
Dielectric	Solid Polyethylene	1.52 mm
Outer Conductor	Aluminum Tape	1.65 mm
Overall Braid	Tinned Copper	2.11 mm
Jacket	PVC (Poly Vinyl Chloride)	2.79 mm

### Electrical Data

Impedance	50 $\Omega \pm 2$
Frequency	DC to 8 GHz
Capacitance	101.1 pF/m
Velocity of signal propagation	66 %
Signal delay	5.05 ns/m
Operating voltage	$\leq 2$ kVrms (@ sea level)

### Mechanical Data

Weight	14 g/m
Min. bending radius	6.4 mm (Static) 25.4 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	0.29	0.09	100
0.45	0.52	0.16	57
0.9	0.75	0.23	39
1.5	0.99	0.30	29
1.8	1.09	0.33	27
2.0	1.16	0.35	25
2.5	1.31	0.40	22
5.8	2.10	0.64	13
8.0	2.54	0.77	10