



**RNL 400 Flexible Low Loss
Communications Coax**

RNL-400



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Solid Copper Clad Aluminum Wire	2.74 mm
Dielectric	Foamed Polyethylene	7.24 mm
Outer Conductor	Aluminum Tape	-
Overall Braid	Aluminum Alloy	8.1 mm
Jacket	PVC	10.3 mm

Electrical Data

Impedance	50 $\Omega \pm 2$
Frequency	DC to 8 GHz
Capacitance	78 pF/m
Velocity of signal propagation	85 %
Withstanding voltage (AC; 1min)	≥ 2.5 kV (@ sea level)

Mechanical Data

Weight	98 g/m
Min. bending radius	25.4 mm

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) @ 25°C sea level
0.03	0.02	<0.01	
0.05	0.03	<0.01	
0.15	0.05	0.02	1470
0.22	0.06	0.02	
0.45	0.09	0.03	830
0.9	0.13	0.04	580
1.5	0.17	0.05	440
1.8	0.19	0.06	400
2.0	0.20	0.06	370
2.5	0.22	0.07	330
5.8	0.36	0.11	210
8.0	0.43	0.13	170