

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	7.39 mm
Overall Braid	Tinned Copper	8.13 mm
Jacket	PE	10.29 mm

Electrical Data

Impedance	50 $\Omega \pm 2$
Frequency	DC to 8 GHz
Capacitance	78.4 pF/m
Velocity of signal propagation	84 %
Signal delay	3.92 ns/m
Operating voltage	≤ 8 kVrms (@ sea level)

Mechanical Data

Weight	100 g/m
Min. bending radius	25.4 mm (Static) 101.6 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	0.05	0.02	1470
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