

Technical Data Sheet

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 $50 \Omega \pm 2$ DC to 8 GHz Frequency Capacitance 101.1 pF/m Velocity of signal propagation 66 % Signal delay $5.05 \, \text{ns/m}$ ≤ 2 kVrms (@ sea level)

Operating voltage

Mechanical Data

Weight 14 g/mMin. 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

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

The facts and figures herein are carefully compiled to the best of our
knowledge, but they are intended for general informational purposes only.
In the effort to improve our products, we reserve the right to make changes
judged to be necessary.

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