

RNL 100A Flexible Low Loss

Communications Coax

Technical Data Sheet

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 ns/m ≤ 2 kVrms (@ sea level) Operating voltage Mechanical Data Weight 14 g/m Min. bending radius 6.4 mm (Static) 25.4 mm (Dynamic)

Environmental Data

Temperature range Installation temperature RoHS (2011/65/EU) -40°C to +85°C -40°C to +85°C 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

The facts and figures herein are carefully compiled to the best of our	K AV '-	Rosnol RF/Microwave Technology	Page
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In the effort to improve our products, we reserve the right to make changes	Date:	Phone:+886-3-463-5095	1/1
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