

NB1000 LNB Series Economical Low Loss Testing Cable

Features:

- * Low Insertion Loss
- * High Power
- * Low PIM

Applications:

- * Phased-array Radar
- * Satellite Communication
- * Avionics
- * Telecom

Electrical

Frequency:	DC~10GHz
Cut-off Frequency:	18GHz
Impedance:	50Ω
Velocity of Propagation:	78%
Shielding Effectiveness:	100dB min.
Voltage Withstand:	2500V DC
PIM:	-155dBc

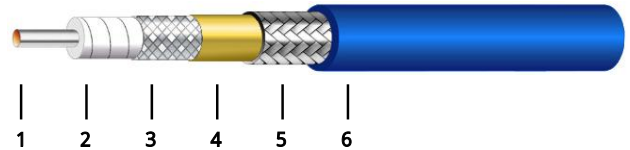
Mechanical

Bend Radius (installation):	51.0mm
Bend Radius (repeated):	100.0mm
Weight:	200g/m

Environmental

Temperature: -55~+200°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	2.44	Stranded silver-plated copper
2	Dielectric	7.24	Low density PTFE
3	Inner Shield	7.48	Silver-plated copper tape
4	Interlayer	7.61	Aluminum tape
5	Outer Shield	8.19	Silver-plated copper braid
6	Jacket	9.30	FEP

Attenuation & Power Handling

Frequency (MHz)	300	1000	3000	6000	8500	12400	15000	18000
Attenuation*1 (dB/100m)	9,47	17,55	31,15	45,10	54,48	67,06	74,56	82,61
Average Power*2 (W)	2919	1530	887	613	507	412	374	335

[1] VSWR:1.0; Ambient: +25C (77F)

[2] VSWR:1.0; Ambient: +40C (104F); Sea level

Calculate Cable Attenuation: Attenuation (dB/100m) = 0.446080 * √F (MHz) + 0.000600 * F (MHz)

Calculate Connector Attenuation: Attenuation (dB) = 0.05 * √F (GHz)

How To Order

NB760-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NB760 cable assembly, DC-18GHz, N male to N female, 0.5 meter, specify NB760-18-NNF-0.5.

Connector naming rules:

S - SMA (26.5GHz, VSWR 1.3)

N - N (8GHz, VSWR 1.2)

T - TNC (8GHz, VSWR 1.2)

Female Connector - Add 'F' after connector name

Right Angle - Add 'R' after connector name (VSWR increase 0.1)