

NB1500

Stable Loss, VSWR, Phase vs Flexing

Features:

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

Applications:

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

Electrical

Frequency:	DC-8GHz
Cut-off Frequency:	10GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	100dB min.
Voltage Withstand:	3500V DC
PIM:	-155dBc

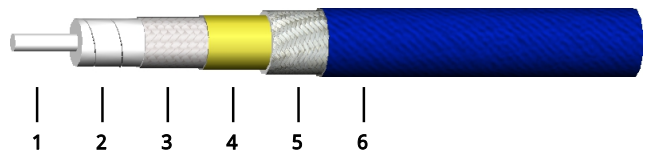
Mechanical

Bend Radius (installation):	74.0mm
Bend Radius (repeated):	147.0mm
Weight:	360g/m

Environmental

Temperature: -55~+200°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	4.40	Stranded silver-plated copper
2	Dielectric	12.50	Low density PTFE
3	Inner Shield	12.82	Silver-plated copper tape
4	Interlayer	12.95	High Temp. Aluminum tape
5	Outer Shield	13.67	Silver-plated copper braid
6	Jacket	14.71	FEP

Attenuation & Power Handling

Frequency (GHz)	0.1	0.3	0.5	1	2	3	4	5	6	8
Attenuation*1 (dB/100m)	3.1	5.5	7.1	10.3	14.8	18.5	21.6	24.5	27.2	31.9
Average Power*2 (W)	13440	7650	5870	4080	2818	2260	1928	1703	1537	1308

[1] VSWR:1.0; Ambient: +25°C (77°F)

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

Calculate Cable Attenuation: Attenuation (dB/100m) = 0.304208 * √F (MHz) + 0.000591 * F (MHz)

Calculate Connector Attenuation: Attenuation (dB) = 0.03 * √F (GHz)

How To Order

NB1500-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NB1500 cable assembly, DC-6GHz, 7/16 male to 7/16 female, 0.5 meter, specify NB1500-6-77F-0.5.

Connector naming rules:

N - N (6GHz, VSWR 1.25)

7 - 7/16 DIN (L29) (6GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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

NCN-MG-B1500-1

N male, Stainless steel



NC7-MB-B1500-1

7/16 male, Ternary alloy
plated brass

