RFLOGY
TOMORROW DISCOVERED

Flexible RF Cables & Assemblies

NB760
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~18GHz
Cut-off Frequency:	22GHz
Impedance:	50Ω
Velocity of Propagation:	78%
Shielding Effectiveness:	100dB min.
Voltage Withstand:	2000V DC
PIM:	-155dBc

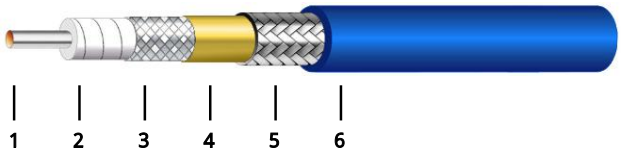
Mechanical

Bend Radius (installation):	38.0mm
Bend Radius (repeated):	76.0mm
Weight:	130g/m

Environmental

Temperature: -55~+200℃

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	2.6	Stranded silver-plated copper
2	Dielectric	5.89	Low density PTFE
3	Inner Shield	6.05	Silver-plated copper tape
4	Interlayer	6.17	Aluminum tape
5	Outer Shield	6.81	Silver-plated copper braid
6	Jacket	7.62	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
Calcuate Cable Attenuation: Attenuation (dB/100m) = $0.536417 * \sqrt{F\ (MHz)} + 0.000591 * F\ (MHz)$
Calcuate Connector Attenuation: Attenuation (dB) = $0.05 * \sqrt{F\ (GHz)}$

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)