

NB520

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~26,5GHz
Cut-off Frequency:	31GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	100dB min.
Voltage Withstand:	1500V DC
PIM:	-155dBc

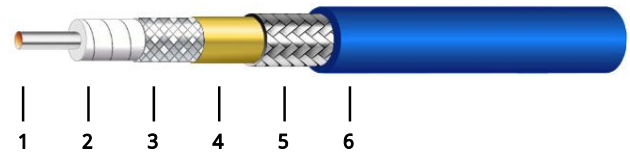
Mechanical

Bend Radius (installation):	26.0mm
Bend Radius (repeated):	52.0mm
Weight:	67g/m

Environmental

Temperature: -55~+200°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.29	Stranded silver-plated copper
2	Dielectric	3.91	Low density PTFE
3	Inner Shield	4.15	Silver-plated copper tape
4	Interlayer	4.28	Aluminum tape
5	Outer Shield	4.85	Silver-plated copper braid
6	Jacket	5.20	FEP

Attenuation & Power Handling

Frequency (MHz)	300	1000	3000	6000	9000	12000	15000	18000	26500
Attenuation*1 (dB/100m)	15,0	27,7	48,7	69,9	86,5	100,9	113,7	125,5	155
Average Power*2 (W)	1383	750	426	297	240	208	188	165	135

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

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

Calculate Cable Attenuation: Attenuation (dB/100m) = $0.856234 \sqrt{F \text{ (MHz)}} + 0.000591 \cdot F \text{ (MHz)}$

Calculate Connector Attenuation: Attenuation (dB) = $0.05 \sqrt{F \text{ (GHz)}}$

How To Order

NB520-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NB520 cable assembly, DC-18GHz, N male to N female, 0.5 meter, specify NB520-18-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)