

NR500

Low Loss

Features:
 * Low Insertion Loss
 * High Weatherability
 * UV Resistant

Applications:
 * Wireless Communication
 * Microwave Interconnect

Electrical

Frequency:	DC~5.8GHz
Cut-off Frequency:	41GHz
Impedance:	50Ω
Velocity of Propagation:	80%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1000V DC

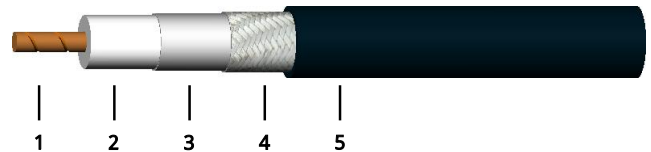
Mechanical

Bend Radius (installation):	12.0mm
Bend Radius (repeated):	50.0mm
Weight:	30g/m

Environmental

Temperature:	-40~+85°C
Outdoor Life:	20 or 10 years

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.94	Copper
2	Dielectric	2.79	Foam PE
3	Outer Conductor	2.95	Double-edged aluminum foil
4	Outer Shield	3.53	Tin-plated copper braid
5	Jacket	5.00	PE or PVC

Attenuation & Power Handling

	0.03	0.05	0.15	0.22	0.45	0.9	1.5	1.8	2	2.5	5.8
Frequency (GHz)											
Attenuation*1 (dB/100m)	6.5	8.4	14.7	17.8	25.7	36.7	47.9	52.8	55.8	62.8	98.6
Average Power*2 (W)	890	680	390	320	220	160	120	110	100	90	60

[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) = 1.1778215 * √F (MHz) + 0.0015420 * F (MHz)

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

How To Order

NR500-X-Y-Z

X: Frequency in GHz
 Y: Connector type
 Z: Length in meters

Examples:

To order a NR500 cable assembly, DC-5.8GHz, SMA male to SMA female, 1.5 meters, specify NR500-5.8-SSF-1.5.

Connector naming rules:

- S - SMA (6GHz, VSWR 1.35)
- N - N (6GHz, VSWR 1.35)
- X - MMCX (6GHz, VSWR 1.35)
- M - MCX (6GHz, VSWR 1.35)
- B - BNC (4Hz, VSWR 1.4)
- D - SMB (4GHz, VSWR 1.35)

Female Connector - Add 'F' after connector name

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