

NR1000U

Low Loss, Ultra Flexible

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|-----------------------|--------------------------|
| Features: | Applications: |
| * Low Insertion Loss | * Wireless Communication |
| * High Weatherability | * Microwave Interconnect |
| * UV Resistant | |
| * Ultra Flexible | |

Electrical

Frequency:	DC~5.8GHz
Cut-off Frequency:	16.2GHz
Impedance:	50Ω
Velocity of Propagation:	85%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	2500V DC

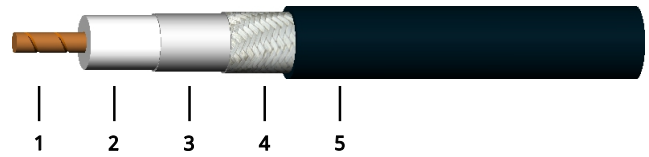
Mechanical

Bend Radius (installation):	25.0mm
Bend Radius (repeated):	100.0mm
Weight:	130g/m

Environmental

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

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	2.74	Stranded Copper
2	Dielectric	7.24	Foam PE
3	Outer Conductor	7.39	Double-edged aluminum foil
4	Outer Shield	8.13	Tin-plated copper braid
5	Jacket	10.30	TPE

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)	2.7	3.5	6.1	7.4	10.7	15.4	20.3	22.4	23.7	26.7	42.8
Average Power*2 (W)	2770	2140	1220	1000	690	480	360	330	310	280	170

[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) = 0.4822835 * √F (MHz) + 0.0010499 * F (MHz)

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

How To Order

NR1000U-X-Y-Z

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

- Connector naming rules:
- N - N (6GHz, VSWR 1.35)
 - T - TNC (6GHz, VSWR 1.35)

Examples:

To order a NR1000U cable assembly, DC-5.8GHz, N male, 1.5 meters, specify NR1000U-5.8-NN-1.5.

Female Connector - Add 'F' after connector name

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

Mating Connector

NCS-MCB-R1000-1

SMA male, Crimping type,
Ternary alloy plated brass
& Nickel plated brass

NCS-MRCB-R1000-1

SMA male, Right angle,
Crimping type, Ternary
alloy plated brass & Nickel
plated brass

NCN-MCB-R1000-1

N male, Crimping type,
Brass

NCN-FCB-R1000-1

N female, Crimping type,
Ternary alloy plated brass

