

NY1000

Outdoor Use, Low Loss, Phase Stable

Features:

- * Low Insertion Loss
- * High Weatherability
- * UV Resistant

Applications:

- * Wireless Base Station
- * Satellite Communication
- * Maritime Communication
- * Outdoor Interconnection

Electrical

| | |
|--------------------------|-----------|
| Frequency: | DC~10GHz |
| Cut-off Frequency: | 15GHz |
| Impedance: | 50Ω |
| Velocity of Propagation: | 76% |
| Shielding Effectiveness: | 70dB min. |
| Voltage Withstand: | 3000V DC |

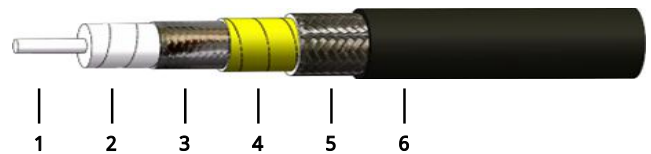
Mechanical

| | |
|-----------------------------|---------|
| Bend Radius (installation): | 50.0mm |
| Bend Radius (repeated): | 100.0mm |
| Weight: | 190g/m |

Environmental

| | |
|---------------|-----------|
| Temperature: | -55~+85°C |
| Outdoor Life: | 20 years |

Construction



| No. | Name | Size (mm) | Material |
|-----|-----------------|-----------|----------------------------|
| 1 | Inner Conductor | 2.44 | Silver-plated copper |
| 2 | Dielectric | 7.24 | Low density PTFE |
| 3 | Inner Shield | 7.48 | Silver-plated copper tape |
| 4 | Interlayer | 7.61 | Aluminum tape |
| 5 | Outer Shield | 8.19 | Silver-plated copper braid |
| 6 | Jacket | 10.15 | PUR |

Attenuation & Power Handling

| Frequency (GHz) | 0.1 | 0.3 | 0.5 | 1 | 3 | 5 | 6 | 8 | 10 |
|-------------------------|------|------|------|------|------|------|------|------|------|
| Attenuation*1 (dB/100m) | 4.5 | 7.9 | 10.3 | 14.7 | 26.2 | 34.5 | 38.2 | 44.7 | 50.6 |
| Average Power*2 (W) | 3590 | 2053 | 1580 | 1104 | 619 | 470 | 425 | 363 | 321 |

[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) = 0.446080 * √F (MHz) + 0.000600 * F (MHz)

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

How To Order

NY1000-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NY1000 cable assembly, DC-10GHz, N male to N female, 1.5 meters, specify NY1000-10-NNF-1.5.

Connector naming rules:

N - N (10GHz, VSWR 1.2)

T - TNC (10GHz, VSWR 1.2)

Female Connector - Add 'F' after connector name

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