

### NTF

### Ultra-Flexible

**Features:**

- \* Ultra-Flexible
- \* Corrosion Resistance

**Applications:**

- \* Phased-array Radar
- \* Laboratory Test
- \* Small & Complicated Interconnection Occasion

#### Electrical

Frequency:	DC~26.5GHz
Cut-off Frequency:	35GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1000V DC

#### Mechanical

Bend Radius (installation):	20.8mm
Bend Radius (repeated):	52.0mm
Weight:	60g/m

#### Environmental

Temperature:	-55~+85°C
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#### Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.02	Silver plated copper
2	Dielectric	3.07	Low density PTFE
3	Inner Shield	3.27	Silver-plated copper tape
4	Interlayer	3.55	PTFE
5	Outer Shield	4.12	Silver-plated copper braid
6	Jacket	5.2	PUR

#### Attenuation & Power Handling

	0.3	0.5	1	3	6	10	12.4	18	26.5
Frequency (GHz)									
Attenuation*1 (dB/100m)	20.5	26.7	38.5	69.8	103.2	139.0	157.9	198.0	252.1
Average Power*2 (W)	280	215	149	82	55	41	36	29	23

[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) = 1.13660 \* √F (MHz) + 0.002530 \* F (MHz)

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

#### How To Order

**NTF-X-Y-Z**

X: Frequency in GHz

Y: Connector type

Z: Length in meters

**Examples:**

To order a NTF cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify NTF-18-SSF-0.5.

**Connector naming rules:**

S - SMA (26.5GHz, VSWR 1.3)

N - N (18GHz, VSWR 1.3)

Female Connector - Add 'F' after connector name

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