

## NT26

### Phase & Loss Stable, Long Flex Life

**Features:**

- \* Low Insertion Loss
- \* High Phase Stability
- \* High Power
- \* High Durability

**Applications:**

- \* Laboratory Test
- \* Avionics
- \* Phased-array Radar
- \* Satellite Communication

#### Electrical

Frequency:	DC~26,5GHz
Impedance:	50Ω
Velocity of Propagation:	82%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	2000VDC
Phase Stability*1:	±7°
Amplitude Stability*1:	±0.05dB

[1] 50mm radius, 360° bending

#### Mechanical

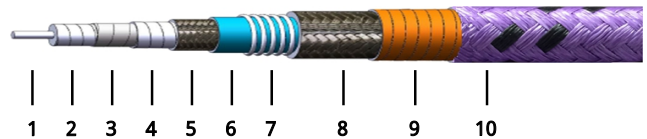
Unarmored Bend Radius (installation/repeated):	18mm/36mm min.
Armored Bend Radius (installation/repeated):	50mm/80mm min.
Bending Life Cycle:	100,000
Mating Life Cycle*2:	5,000

[2] For connectors 2.4mm, 2.92mm, 3.5mm, SMA, N only.

#### Environmental

Temperature: -55~+165°C

#### Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.44	Silver-plated copper
2	Dielectric	3.85	Low density PTFE
3	Inner Shield	4.05	Silver-plated copper tape
4	Interlayer	4.30	Low density PTFE
5	Outer Shield	4.65	Silver-plated copper braid
6	Jacket	5.10	FEP
7-9	Armor (optional)	7.80	Composite
10		7.60	PTFE

Tolerance: ±0.2mm [±0.008in]

#### Attenuation & Power Handling

	300	1000	3000	6000	8500	12000	14000	16000	18000	26500
Frequency (MHz)	300	1000	3000	6000	8500	12000	14000	16000	18000	26500
Attenuation*1 (dB/100m)	14,6	27,1	48,1	69,6	84,1	101,6	110,7	119,2	127,4	158,8
Average Power*2 (W)	1522,0	821,0	463,0	320,0	265,0	217,0	203,0	189,0	175,0	140,

[3] VSWR:1.0; Ambient: +25°C (77°F); Raw cable

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

Calculate Cable Attenuation: Attenuation (dB/100m) = 0.8288 \* √F (MHz) + 0.0009 \* F (MHz)

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

#### How To Order

##### NT26W-X-Y-Z

W: Armor: P, without armor: blank

X: Frequency In GHz

Y: Connector type

Z: Length in meters

##### Examples:

To order a NT26 test cable assembly with armor, DC-50GHz, 2.4mm male to 2.4mm female, 0.5 meter, specify NT26P-50-22F-0.5.

##### Connector naming rules:

- 2 - 2.4mm (50GHz, VSWR 1.4)
- K - 2.92mm (40GHz, VSWR 1.25)
- 3 - 3.5mm (33GHz, VSWR 1.35)
- S - SMA (26.5GHz, VSWR 1.25)
- N - N (18GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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

**NC2-MRG-T50-1**

2.4mm male, Right angle,  
 Stainless steel

**NC2-MG-T50-2**

2.4mm male, Stainless  
 steel

**NC2-FG-T50-1**

2.4mm female, Stainless  
 steel

**NC2-FRG-T50-1**

2.4mm female, Right angle,  
 Stainless steel

**NCK-MG-T50-1**

2.92mm male, Stainless  
 steel

**NCK-MRG-T50-1**

2.92mm male, Right angle,  
 Stainless steel

**NCK-FG-T50-1**

2.92mm female, Stainless  
 steel

**NCK-FRG-T50-1**

2.92mm female, Right  
 angle, Stainless steel

**NC3-MG-T50-1**

3.5mm male, Stainless  
 steel

**NC3-FG-T50-1**

3.5mm female, Stainless  
 steel

**NCS-MG-T50-1**

SMA male, Stainless steel

**NCS-FG-T50-1**

SMA female, Stainless steel

**NCN-MG-T50-4**

N male, Stainless steel

**NCN-FG-T50-1**

N female, Stainless steel



**T50P Mating Connector**

**NC2-MRG-T50P-1**

2.4mm male, Right angle,  
 Stainless steel

**NC2-MG-T50P-4**

2.4mm male, Stainless  
 steel

**NC2-FG-T50P-4**

2.4mm female, Stainless  
 steel

**NCN-MG-T50P-3**

N male, Stainless steel

**NC3-MG-T50P-1**

3.5mm male, Stainless  
 steel

**NC3-FG-T50P-1**

3.5mm female, Stainless  
 steel



## High Performance Test Cable Assemblies

**NCK-MG-T50P-4**

2.92mm male, Stainless steel



**NCK-MRG-T50P-1**

2.92mm male, Right angle, Stainless steel

**NCK-FG-T50P-3**

2.92mm female, Stainless steel



**NCK-FRG-T50P-1**

2.92mm female, Right angle, Stainless steel

**NCS-MG-T50P-3**

SMA male, Stainless steel



**NCS-FG-T50P-1**

SMA female, Stainless steel



**NCN-FG-T50P-1**

N female, Stainless steel