

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 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)	7.60	Composite
10		7.80	PTFE

Tolerance: ±0.2mm [±0.008in]

Attenuation & Power Handling

	300	1000	3000	6000	8500	12000	14000	16000	18000	26500
Frequency (MHz)										
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	140,0

[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-26GHz, 3.5mm male to 3.5mm female, 0.5 meter, specify NT26P-26-33F-0.5.

Connector naming rules:

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)