

# NA760

## Ultra Low Loss & Phase Stable

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|---|---|
| <b>Features:</b><br>* Low Insertion Loss<br>* High Phase Stability<br>* High Power<br>* Low PIM | <b>Applications:</b><br>* Phased-array Radar<br>* Satellite Communication<br>* Avionics |
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### Electrical

Frequency:	DC~18GHz
Cut-off Frequency:	19GHz
Impedance:	50Ω
Velocity of Propagation:	83%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	2500V DC
Phase Stability:	750PPM@-55°C~+85°C max.

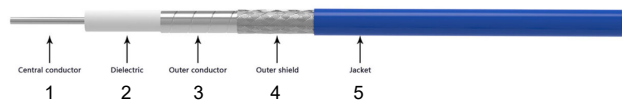
### Mechanical

Bend Radius (installation):	38.0mm
Bend Radius (repeated):	76.0mm
Weight:	137g/m

### Environmental

Temperature: -55~+165°C

### Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	2.39	Stranded silver-plated copper
2	Dielectric	6.25	Low density PTFE
3	Inner Shield	6.49	Silver-plated copper tape
4	Outer Shield	7.06	Silver-plated copper braid
5	Jacket	7.65	PFA

### Attenuation & Power Handling

	0.1	0.3	0.5	1	2	4	6	10	12.4	18
Frequency (GHz)										
Attenuation*1 (dB/100m)	5.6	9.8	12.7	18	25.7	36.7	45.3	59.2	66.3	80.9
Average Power*2 (W)	5134	2952	2280	1604	1126	788	638	488	436	357

[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) = 0.559764 \* √F (MHz) + 0.000320 \* F (MHz)

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

### How To Order

#### NA760-X-Y-Z

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

#### Examples:

To order a NA760 cable assembly, DC-18GHz, N male to SMA female, 0.5 meter, specify NA760-18-SFN-0.5.

#### Connector naming rules:

- S - SMA (18GHz, VSWR 1.25)
- N - N (18GHz, VSWR 1.25)
- T - TNC (18GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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

**Mating Connector**

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**NCS-MG-A760-1**

SMA male, Stainless steel

**NCS-FG-A760-1**

SMA female, Stainless steel



**NCN-MG-A760-1**

N male, Stainless steel

**NCN-FG-A760-1**

N female, Stainless steel

