

NA400

Ultra Low Loss & Phase Stable

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| Features:
* Low Insertion Loss
* High Phase Stability
* High Power
* Low PIM | Applications:
* Phased-array Radar
* Satellite Communication
* Avionics |
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Electrical

Frequency:	DC-40GHz
Cut-off Frequency:	41GHz
Impedance:	50Ω
Velocity of Propagation:	82%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1500V DC
PIM:	-155dBc
Phase Stability:	750PPM@-55°C~+85°C max.

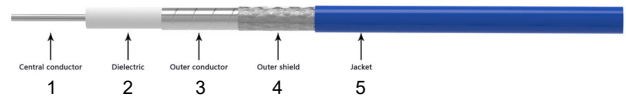
Mechanical

Bend Radius (installation):	20.0mm
Bend Radius (repeated):	40.0mm
Weight:	36g/m

Environmental

Temperature: -55~+165°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.05	Silver-plated copper
2	Dielectric	2.85	Low density PTFE
3	Inner Shield	3.05	Silver-plated copper tape
4	Outer Shield	3.40	Silver-plated copper braid
5	Jacket	4.00	PFA

Attenuation & Power Handling

Frequency (GHz)	1	2	3	6	8	10	12.4	18	26.5	40
Attenuation*1 (dB/100m)	33.5	47.5	58.3	82.8	95.8	107.2	119.7	144.7	176.4	218.1
Average Power*2 (W)	634	447	365	257	222	198	178	147	120	97

[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) = 1.05447 * √F (MHz) + 0.000180 * F (MHz)

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

How To Order

NA400-X-Y-Z

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

Examples:

To order a NA400 cable assembly, DC-40GHz, 2.92mm male to 2.92mm female, 0.8 meter, specify NA400-40-KKF-0.8.

Connector naming rules:

- K - 2.92mm (40GHz, VSWR 1.35)
- 3 - 3.5mm (33GHz, VSWR 1.35)
- S - SMA (26.5GHz, VSWR 1.3)
- N - N (18GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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

Mating Connector

NCK-MG-A400-1

2.92mm male, Stainless
steel

NCK-FG-A400-1

2.92mm female, Stainless
steel

NCS-MG-A400-1

SMA male, Stainless
steel

NCS-FG-A400-1

SMA female, Stainless
steel
