

NA1200

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~10GHz
Cut-off Frequency:	13GHz
Impedance:	50Ω
Velocity of Propagation:	83%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	2000VDC
PIM:	-155dBc
Phase Stability:	500PPM@-55°C~+85°C max.

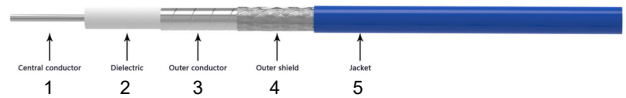
Mechanical

Bend Radius (installation):	60.0mm
Bend Radius (repeated):	120.0mm
Weight:	162g/m

Environmental

Temperature: -55~+165°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	3.80	Silver-plated copper
2	Dielectric	10.40	Low density PTFE
3	Inner Shield	10.78	Silver-plated copper tape
4	Outer Shield	11.35	Silver-plated copper braid
5	Jacket	12.00	PFA

Attenuation & Power Handling

Frequency (GHz)	1	2	4	6	8	10	12.4	16	18
Attenuation*1 (dB/100m)	13.3	18.9	27.1	33.6	39.1	44.1	49.5	56.9	60.6
Average Power*2 (W)	1894	1326	925	747	641	569	507	442	414

[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) = 0.408997 * √F (MHz) + 0.000320 * F (MHz)

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

How To Order

NA1200-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NA1200 cable assembly, DC-10GHz, N male to SMA female, 0.5 meter, specify NA1200-10-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

NCS-MG-A830-1

SMA male, Stainless steel



NCN-MG-A830-1

N male, Stainless steel

