

NA1200

Ultra Low Loss & Phase Stable

Features:

- * Low Insertion Loss
- * High Phase Stability
- * High Power
- * Low PIM

Applications:

- * Phased-array Radar
- * Satellite Communication
- * Avionics

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.

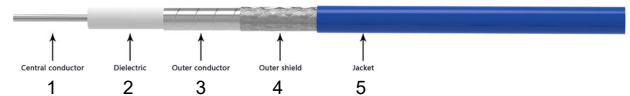
Mechanical

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)	100	300	400	500	1000	1250	2000	3000	6000	8000	10000
Attenuation*1 (dB/100m)	3.0	5.3	6.2	6.9	9.9	11.2	14.4	17.9	26.2	30.8	35.0
Average Power*2 (W)	9.978	5.691	4.907	4.372	3.045	2.707	2.108	1.694	1.157	0.984	0.867

[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) = $0.298515 * \sqrt{F \text{ (MHz)}} + 0.00051 * F \text{ (MHz)}$

Calculate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F \text{ (GHz)}}$

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

