

NH400A

Flexible, Alternate to semi-rigid cable

Features:

- * Phase Stability
- * Low PIM

Applications:

- * Phased-array Radar
- * Interconnection in and between equipment

Electrical

Frequency:	DC~40GHz
Cut-off Frequency:	45GHz
Impedance:	50Ω
Velocity of Propagation:	83%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1000V DC

Mechanical

Bend Radius (installation):	20.0mm
Bend Radius (repeated):	40.0mm
Weight:	41g/m

Environmental

Temperature: -55~+165°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.94	Silver-plated copper
2	Dielectric	3.00	LD PTFE
3	Inner Shield	3.20	Silver-plated copper tape
4	Outer Shield	3.55	Silver-plated copper braid
5	Jacket	4.00	FEP

Attenuation & Power Handling

Frequency (MHz)	1000	2000	3300	5000	6600	10000	14900	18200	26500	33000	40000
Attenuation*1 (dB/100m)	31,0	44,2	57,2	70,9	82,0	102,0	126,1	140,4	172,1	194,1	215,8
Average Power*2 (W)	570	440	320	280	230	170	150	130	100	92	80

[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) = $0.96104 * \sqrt{F \text{ (MHz)}} + 0.00059 * F \text{ (MHz)}$

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

How To Order

NH400A-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NH400A cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify NH400A-18-SSF-0.5.

Connector naming rules:

3 - 3.5mm (26.5GHz, VSWR 1.3)

P - SMP (26.5GHz, VSWR 1.3)

A - SSMA (26.5GHz, VSWR 1.3)

S - SMA (26.5GHz, VSWR 1.3)

N - N (18GHz, VSWR 1.25)

X - MMCX (6GHz, VSWR 1.3)

M - MCX (6GHz, VSWR 1.3)

B - BNC (4GHz, VSWR 1.4)

T - TNC (6GHz, VSWR 1.35)

D - SMB (4GHz, VSWR 1.25)

Q-2.92 (40GHz, VSWR 1.35)

Female Connector - Add 'F' after connector name

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