

NH750

Flexible, Alternate to semi-rigid cable

Features:
* Phase Stability
* Low PIM

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

Electrical

Frequency:	DC~18GHz
Cut-off Frequency:	20GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	3000V DC

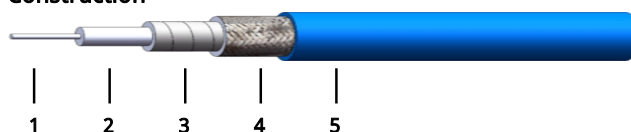
Mechanical

Bend Radius (installation):	35.0mm
Bend Radius (repeated):	70.0mm
Weight:	118g/m

Environmental

Temperature: -55~+165°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.63	Silver-plated copper
2	Dielectric	5.30	PTFE
3	Inner Shield	5.55	Silver-plated copper tape
4	Outer Shield	6.17	Silver-plated copper braid
5	Jacket	7.00	FEP

Attenuation & Power Handling

Frequency (MHz)	300	1000	2000	3000	6000	8000	10000	12000	16000	18000
Attenuation*1 (dB/100m)	8,4	15,4	21,9	26,9	38,4	44,5	50,0	54,9	63,8	67,9
Average Power*2 (W)	3200	1744	1227	1000	701	604	538	490	422	397

[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) = $0.48249 \times \sqrt{F \text{ (MHz)}} + 0.000174 \times F \text{ (MHz)}$

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

How To Order

NH750-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NH750 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify NH750-18-SSF-0.5.

Connector naming rules:

S - SMA (18GHz, VSWR 1.3)

N - N (18GHz, VSWR 1.25)

X - MMCX (6GHz, VSWR 1.3)

M - MCX (6GHz, VSWR 1.3)

Female Connector - Add 'F' after connector name

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

Mating Connector

NCS-FL2B-750-1

SMA female, 2 - hole flange mount, Brass

NCS-MRB-750-1

SMA male, Right angle, Gold plated brass

NCS-FB-750-1

SMA female, Gold plated brass



NCS-FL4B-750-1

SMA female, 4- hole flange mount, Gold plated brass



1 NCN-MB-750-1

N male, Nickel plated brass



NCN-MRB-750-1

N male, Right angle, Gold plated brass



NCS-MG-750-1

SMA male, Stainless steel



NCS-MRG-750-1

SMA male, Right angle, Stainless steel

NCS-FHB-750-1

SMA female, Bulk head, Brass

NCB-MB-750-1

BNC male, Ternary alloy plated brass



NCN-MRB-750-1

N male, Right angle, Nickel plated brass



NCN-FB-750-1

N female, Nickel plated brass

