

# 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

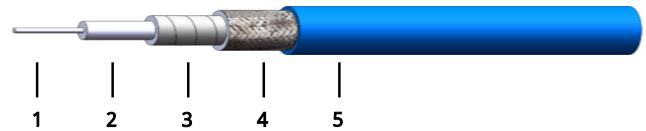
### Mechanical

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 \* √F (MHz) + 0.000174 \* F (MHz)

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

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**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

