

NA150

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~40GHz
Cut-off Frequency:	128GHz
Impedance:	50Ω
Velocity of Propagation:	80%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	400V DC
PIM:	-155dBc
Phase Stability:	1000PPM@-55°C~+85°C max.

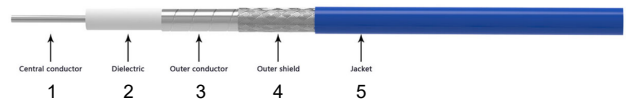
Mechanical

Bend Radius (installation):	8mm
Bend Radius (repeated):	15mm
Weight:	5.4g/m

Environmental

Temperature: -55~+125°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.30	Silver-plated copper
2	Dielectric	0.88	Low density PTFE
3	Inner Shield	1	Silver-plated copper tape
4	Outer Shield	1.23	Silver-plated copper braid
5	Jacket	1.5	PFA

Attenuation & Power Handling

	1	2	3	6	8	10	12.4	18	26.5	40
Frequency (GHz)										
Attenuation*1 (dB/100m)	113.7	161.6	198.5	282.9	328	368	411.3	499.3	611.5	760.4
Average Power*2 (W)	97	68	56	39	34	30	27	22	18	15

[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) = 3.557846 * √F (MHz) + 0.001221 * F (MHz)

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

How To Order

NA150-X-Y-Z

- X: Frequency in GHz
 Y: Connector type
 Z: Length in meters

Connector naming rules:

- K - 2.92mm (40GHz, VSWR 1.35)
- S - SMA (26.5GHz, VSWR 1.35)

Examples:

To order a NA150 cable assembly, DC-110GHz, 1.0mm male to 1.0mm female, 0.8 meter, specify NA150-110-11F-0.8.

Female Connector - Add 'F' after connector name

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

Mating Connector

NCV-MG-047-1

1.85mm male, Stainless steel

NC2-MG-047-1

2.4mm male, Stainless steel

NCG-MB-047-1

SSMP male, Beryllium copper

NCG-MRB-047-1

SSMP male, Right angle, Beryllium copper

NCK-MG-047-1

2.92mm male, Stainless steel

NCP-FB-047-1

SMP female, Beryllium brass

NCA-FL2B-047-1

SSMA female, Beryllium copper

NCS-MG-047-1

SMA male, Stainless steel

NCS-MRG-047-1

SMA male, Right angle, Stainless steel

NCS-FG-047-1

SMA female, Stainless steel

