

NA480

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~26.5GHz
Cut-off Frequency:	31GHz
Impedance:	50Ω
Velocity of Propagation:	83%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1500V DC
PIM:	-155dBc
Phase Stability:	750PPM@-55°C~+85°C max.

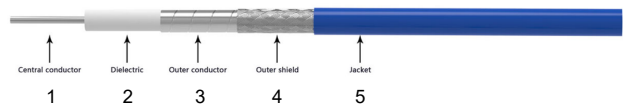
Mechanical

Bend Radius (installation):	24.0mm
Bend Radius (repeated):	48.0mm
Weight:	58g/m

Environmental

Temperature: -55~+165°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.40	Silver-plated copper
2	Dielectric	3.80	Low density PTFE
3	Inner Shield	3.95	Silver-plated copper tape
4	Outer Shield	4.35	Silver-plated copper braid
5	Jacket	4.80	PFA

Attenuation & Power Handling

Frequency (GHz)	0.1	0.3	0.5	1	3	6	10	12.4	18	26.5
Attenuation*1 (dB/100m)	7.5	13.1	16.9	24.1	42.1	60.1	78.3	87.6	106.6	130.8
Average Power*2 (W)	2934	1689	1305	919	525	368	282	252	207	169

[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) = $0.750400 * \sqrt{F} \text{ (MHz)} + 0.000328 * F \text{ (MHz)}$

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

How To Order

NA480-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NA480 cable assembly, DC-26.5GHz, SMA male to SMA female, 0.8 meter, specify NA480-26.5-SSF-0.8.

Connector naming rules:

3 - 3.5mm (26.5GHz, VSWR 1.35)

S - SMA (26.5GHz, VSWR 1.3)

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

NCK-MG-A500-1

2.92mm male, Stainless steel

NC3-MG-A500-2

3.5mm male, Stainless steel

NC3-FG-A500-2

3.5mm female, Stainless steel

NCS-MG-A500-2

3.5mm male, Stainless steel

NCS-MRG-A500-2

SMA male, Right angle, Stainless steel

NCS-FG-A500-2

SMA female, Stainless steel



NCS-FHG-A500-1

SMA female, Bulk head, Stainless steel

NCN-MG-A500-4

N male, Stainless steel



NCN-MRG-A500-1

N male, Right angle, Stainless steel



NCN-FG-A500-1

N female, Stainless steel



NCT-MG-A500-2

TNC male, Stainless steel