

NA410

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~40GHz
Cut-off Frequency:	41GHz
Impedance:	50Ω
Velocity of Propagation:	84%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	1500V DC
PIM:	-155dBc
Phase Stability:	750PPM@-55°C~+85°C max.

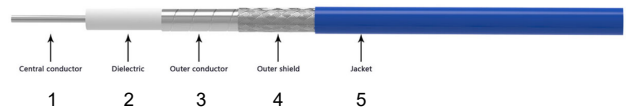
Mechanical

Bend Radius (installation):	20.0mm
Bend Radius (repeated):	40.0mm
Weight:	37g/m

Environmental

Temperature: -55~+165°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.06	Solid Silver-plated copper
2	Dielectric	2.82	Low density PTFE
3	Outer Conductor	3.00	Silver-plated copper tape
4	Outer Shield	3.45	Silver-plated copper braid
5	Jacket	4.00	FEP

Attenuation & Power Handling

Frequency (MHz)	300	500	1000	3000	6000	8000	12000	14000	16000	18000	26500	33000	36000	40000
Attenuation*1 (dB/100m)	16,55	21,40	30,35	52,96	75,45	87,45	107,79	116,75	125,14	133,05	162,88	182,83	191,44	202,43
Average Power*2 (W)	940,00	727,00	512,00	294,00	206,00	178,00	144,00	133,00	124,00	117,00	95,00	90,50	86,00	77,00

[1] VSWR:1.0; Ambient: +25C (77F)

[2] VSWR:1.0; Ambient: +40C (104F); Sea level

Calculate Cable Attenuation: Attenuation (dB/100m)=[0.9499642×SQRT(FMHz)]+[0.0003109×FMHz]

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

How To Order

NA410-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a NA410 cable assembly, DC-40GHz, 2.92mm male to 2.92mm female, 0.8 meter, specify NA410-40-KKF-0.8.

Connector naming rules:

K - 2.92mm (40GHz, VSWR 1.35)

3 - 3.5mm (33GHz, VSWR 1.35)

S - SMA (26.5GHz, VSWR 1.3)

N - N (18GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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



Flexible RF Cables & Assemblies

Mating Connector

NCK-MG-A400-1

2.92mm male, Stainless
steel

NCS-MG-A400-1

SMA male, Stainless
steel

NCK-FG-A400-1

2.92mm female, Stainless
steel

NCS-FG-A400-1

SMA female, Stainless
steel

