NA780
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~18GHz
Cut-off Frequency:	19GHz
Impedance:	50Ω
Velocity of Propagation:	83%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	3600V DC
Phase Stability:	750PPM@-55℃~+85℃ max.

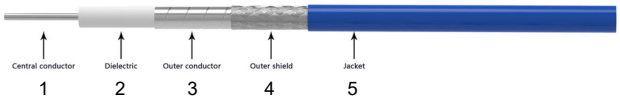
Mechanical

Bend Radius (installation):	38.0mm
Bend Radius (repeated):	76.0mm
Weight:	137g/m

Environmental

Temperature:	-55~+165℃

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	2.39	Stranded silver-plated copper
2	Dielectric	6.30	Low density PTFE
3	Inner Shield	6.65	Silver-plated copper tape
4	Outer Shield	7.15	Silver-plated copper braid
5	Jacket	7.80	PFA

Attenuation & Power Handling

Frequency (GHz)	0.3	1	3	6	8	10	12	14	18
Attenuation*1 (dB/100m)	10.07	17.7	30.3	43.0	49.9	56.0	61.6	66.8	76.3
Average Power*2 (W)	2448	1825	1474	1137	889	569	546	509	425

[1] VSWR:1.0; Ambient: +25℃ (77℉)
[2] VSWR:1.0; Ambient: +40℃ (104℉); Sea level
Calcuate Cable Attenuation: Attenuation (dB/100m) = $0.559764 * \sqrt{F\ (MHz)} + 0.000320 * F\ (MHz)$
Calcuate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F\ (GHz)}$

How To Order
NA780-X-Y-Z

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

Examples:
To order a NA780 cable assembly, DC-18GHz, N male to SMA female, 0.5 meter, specify NA780-18-SFN-0.5.

Connector naming rules:
S - SMA (18GHz, VSWR 1.25)
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

NCS-MG-A780-1
SMA male, Stainless steel

NCS-FG-A780-1
SMA female, Stainless steel

NCN-MG-A780-1
N male, Stainless steel

NCN-FG-A780-1
N female, Stainless steel