

FA760

Ultra Low Loss & Phase Stable

Features:

- * Low Insertion Loss
- * High Phase Stability
- * High Power
- * Low PIM

Applications:

- * Phased-array Radar
- * Satellite Communication
- * Avionics

Electrical

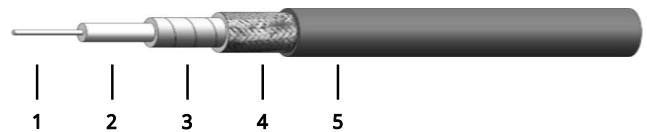
Frequency:	DC~18GHz
Cut-off Frequency:	19GHz
Impedance:	50Ω
Velocity of Propagation:	83%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	2500V DC
Phase Stability:	750PPM@-55°C~+85°C max.

Mechanical

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

Environmental

Temperature: -55~+165°C

Construction


No.	Name	Size (mm)	Material
1	Inner Conductor	2.39	Stranded silver-plated copper
2	Dielectric	6.25	Low density PTFE
3	Inner Shield	6.49	Silver-plated copper tape
4	Outer Shield	7.06	Silver-plated copper braid
5	Jacket	7.65	PFA

Attenuation & Power Handling

Frequency (GHz)	0.1	0.3	0.5	1	2	4	6	10	12.4	18
Attenuation*1 (dB/100m)	5.6	9.8	12.7	18	25.7	36.7	45.3	59.2	66.3	80.9
Average Power*2 (W)	5134	2952	2280	1604	1126	788	638	488	436	357

[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) = $0.559764 * \sqrt{F} \text{ (MHz)} + 0.000320 * F \text{ (MHz)}$

 Calculate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F} \text{ (GHz)}$
How To Order
FA760-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a FA760 cable assembly, DC-18GHz, N male to SMA female, 0.5 meter, specify FA760-18-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

FCS-MG-A810-1

SMA male, Stainless steel

FCS-FG-A810-1

SMA female, Stainless steel

**FCN-MG-A810-1**

N male, Stainless steel

FCN-FG-A810-1

N female, Stainless steel

