

QA750

Ultra Low Loss & Phase Stable

Features:

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

Applications:

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

Electrical

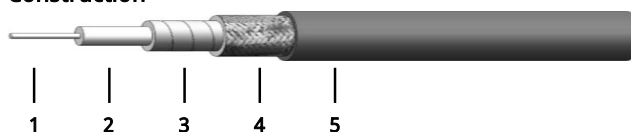
Frequency:	DC~18GHz
Cut-off Frequency:	20GHz
Impedance:	50Ω
Velocity of Propagation:	83%
Shielding Effectiveness:	90dB min.
Voltage Withstand:	2500VC
PIM:	-155dBc
Phase Stability:	750PPM@-55°C~+85°C max.

Mechanical

Bend Radius (installation):	37.0mm
Bend Radius (repeated):	74.0mm
Weight:	125g/m

Environmental

Temperature: -55~+165°C

Construction


No.	Name	Size (mm)	Material
1	Inner Conductor	2.10	Silver-plated copper
2	Dielectric	5.70	Low density PTFE
3	Inner Shield	5.95	Silver-plated copper tape
4	Outer Shield	6.60	Silver-plated copper braid
5	Jacket	7.40	PFA

Attenuation & Power Handling

Frequency (GHz)	0.1	0.3	0.5	1	3	6	10	12.4	18
Attenuation* ¹ (dB/100m)	5.0	8.6	11.2	15.8	27.5	39.1	50.7	56.6	68.5
Average Power* ² (W)	5526	3186	2465	1740	1000	704	542	486	401

[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) = $0.496490 * \sqrt{F} \text{ (MHz)} + 0.000104 * F \text{ (MHz)}$

 Calculate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F} \text{ (GHz)}$
How To Order
QA750-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a QA750 cable assembly, DC-18GHz, N male to SMA female, 0.5 meter, specify QA750-18-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)