QCE047

Low PIM

Features:
* Low PIM

Applications:
* Phased-array Radar
* Instrument
* Interconnection in and between equipment

Electrical

Frequency:	DC~18GHz
Cut-off Frequency:	117GHz
Impedance:	50Ω
Velocity of Propagation:	70%
Shielding Effectiveness:	165dB
Voltage Withstand:	100V DC

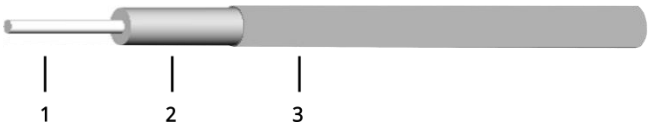
Mechanical

Bend Radius (installation):	4.2mm
Weight:	6.2g/m

Environmental

Temperature:	-268~+150℃

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.3±0.015	Silver plated copper nickel alloy
2	Dielectric	0.95±0.03	PTFE
3	Outer Conductor	1.2±0.03	Copper nickel alloy

Attenuation & Power Handling

Frequency (GHz)	1	2	3	6	8	10	12.4	16	18
Attenuation[*1] (dB/100m)	253.2	358.2	438.8	620.9	717.1	802	893.3	1015	1076.8
Average Power[*2] (W)	147	104	85	60	52	46	42	37	35

[1] VSWR:1.0; Ambient: +25℃ (77℉)
[2] VSWR:1.0; Ambient: +40℃ (104℉); Sea level.
Calcuate Cable Attenuation: Attenuation (dB/100m) = $8.001000 * \sqrt{F\ (MHz)} + 0.000186 * F\ (MHz)$
Calcuate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F\ (GHz)}$

How To Order

QCE047-X-Y-Z
X: Frequency in GHz
Y: Connector type
Z: Length in meters

Examples:
To order a QCE047 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meters, specify QCE047-18-SSF-0.5.

Connector naming rules:
S - SMA

Female Connector - Add ‘F’ after connector name
Right Angle - Add ‘R’ after connector name (VSWR increase 0.1)