

QE086

Low PIM

Features:
* Low PIM

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

Electrical

Frequency: DC~40GHz
Cut-off Frequency: 64GHz
Impedance: 50Ω
Velocity of Propagation: 70%
Shielding Effectiveness: 165dB min.
Voltage Withstand: 400V DC

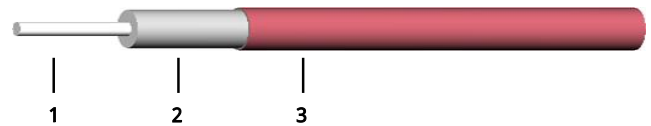
Mechanical

Bend Radius (installation): 7mm
Weight: 19g/m

Environmental

Temperature: -55~+125°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.53	Silver-plated copper
2	Dielectric	1.68	PTFE
3	Outer Conductor	2.18	Ternary alloy plated seamless copper tube

Attenuation & Power Handling

Frequency (GHz)	0.3	0.5	1	3	6	10	12.4	18	26.5	40
Attenuation*1 (dB/100m)	35.0	45.5	64.9	115.2	166.6	219.9	247.6	304.9	379.9	482.7
Average Power*2 (W)	475	366	256	144	100	76	67	55	44	34

[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) = $1.985320 * \sqrt{F} \text{ (MHz)} + 0.002140 * F \text{ (MHz)}$

Calculate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F} \text{ (GHz)}$

How To Order

QE086-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a QE086 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify QE086-18-SSF-0.5.

Connector naming rules:

2 - 2.4mm (40GHz, VSWR 1.35)

K - 2.92mm (40GHz, VSWR 1.35)

P - SMP (26.5GHz, VSWR 1.3)

A - SSMA (26.5GHz, VSWR 1.3)

S - SMA (26.5GHz, VSWR 1.3)

G - Mini-SMP (mateable with GPPO & SSMP, 18GHz, VSWR 1.3)

N - N (12GHz, VSWR 1.2)

X - MMCX (6GHz, VSWR 1.3)

M - MCX (6GHz, VSWR 1.3)

B - BNC (4GHz, VSWR 1.4)

D - SMB (4GHz, VSWR 1.25)

Female Connector - Add 'F' after connector name

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