

FCE034

Low PIM

Features:

* Low PIM

Applications:

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

Electrical

Frequency:	DC~18GHz
Cut-off Frequency:	168GHz
Impedance:	50Ω
Velocity of Propagation:	77%
Shielding Effectiveness:	165dB
Voltage Withstand:	100V DC

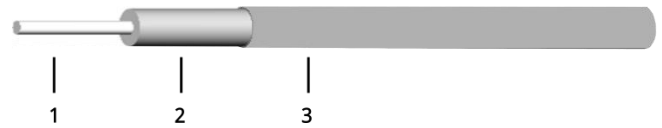
Mechanical

Bend Radius (installation):	4.3mm
Weight:	3.4g/m

Environmental

Temperature: -268~+150°C

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.21	Silver plated copper nickel alloy
2	Dielectric	0.61	PTFE
3	Outer Conductor	0.86	Copper nickel alloy

Attenuation & Power Handling

Frequency (GHz)	1	2	3	6	8	10	12.4	16	18
Attenuation*1 (dB/100m)	316.7	449.7	552.4	786.5	911.4	1022.2	1142	1303	1385.1
Average Power*2 (W)	102	72	58	41	35	32	28	25	23

[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) = $9.921500 * \sqrt{F \text{ (MHz)}} + 0.003000 * F \text{ (MHz)}$

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

How To Order

FCE034-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

Examples:

To order a FCE034 cable assembly, DC-18GHz, SMA male to SMA female, 0.5 meter, specify FCE034-18-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)