

### RF137

#### Low Cost

Features:  
\* Low Cost

Applications:  
\* Telecom  
\* Interconnect between equipment

#### Electrical

Frequency:	DC-6GHz
Impedance:	50±2Ω
Velocity of Propagation:	70%
VSWR:	1.30 max.@DC-6GHz
Voltage Withstand:	1000V DC
Capacitance:	96pF/m

#### Mechanical

Bend Radius(installation):	5mm min.
Bend Radius(repeated):	20mm min.

#### Environmental

Temperature:	-55~+200°C
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#### Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	0.306	Tinned Copper Wire
2	Dielectric	0.90	FEP
3	Outer Conductor	1.13	Tinned Copper Wire
4	Jacket	1.37	FEP

#### Attenuation

Frequency (GHz)	1	2	3	4	5	6
Attenuation(dB/100m)	170	250	300	350	400	450

Calculate Cable Attenuation: Attenuation (dB/100m) = 5.3386764 \* √F (MHz) + 0.00558114 \* F (MHz)

Calculate Connector Attenuation: Attenuation (dB) = 0.03 \* √F (GHz)

#### How To Order

##### RF137-X-Y-Z

X: Frequency in GHz

Y: Connector type

Z: Length in meters

##### Examples:

To order a RF137 cable assembly, DC-3GHz, SMA male to SMA female, 0.8 meter, specify RF137-3-SSF-0.8.

Connector naming rules:

S - SMA (6GHz, VSWR 1.4)

IP - IPEX (3GHz, VSWR 1.3)

Female Connector - Add 'F' after connector name

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