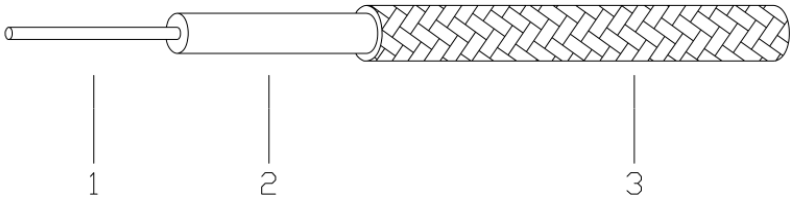
HF047 Cable

RoHS



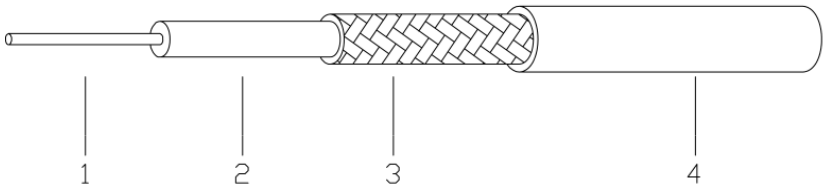
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.29	Silver Plated Copper Clad Steel
2.Dielectric	0.94	PTFE
3. Outer Conduct	1.19	Tin Soaked Copper Braid

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	69.5%
Capacitance (PF/m)	95
Min Bent Radius (mm)	4mm
Min Bending Radius Repeated(mm)	20
Time Delay	4.7nS/m
Max. Operating Voltage	1.5kVrms
Min. Screnning Effectiveness up to 18GHz(dB)	100
Moding Frequency	109GHz
Operating Temperature	-55 to 125℃

Attenuation (+20℃ Ambient) & Power Handing (+40℃ Ambient, Sea level)		
Frequency (GHz)	Attenuation (dB/100m)	Power (KW)
0.5	79.00	62.200
1.0	112.00	43.700
5.0	258.00	19.100
10.0	373.00	13.300
20.0	544.00	9.200

HF047 FEP Cable

RoHS

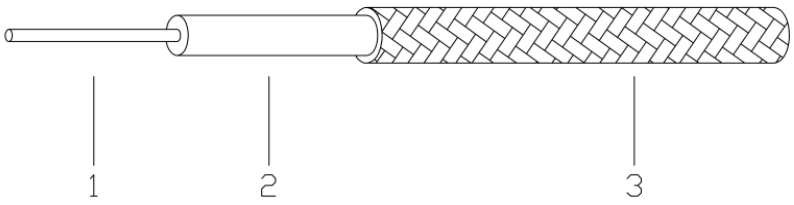


Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.29	Silver Plated Copper Clad Steel
2.Dielectric	0.94	PTFE
3. Outer Conduct	1.19	Tin Soaked Copper Braid
4. Jacket	1.65	FEP

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	69.5%
Capacitance (PF/m)	95
Min Bent Radius (mm)	4mm
Min Bending Radius Repeated(mm)	20
Time Delay	4.7nS/m
Max. Operating Voltage	1.5kVrms
Min. Screnning Effectiveness up to 18GHz(dB)	100
Moding Frequency	109GHz
Operating Temperature	-55 to 125℃

Attenuation (+20℃ Ambient) & Power Handing (+40℃ Ambient, Sea level)		
Frequency (GHz)	Attenuation (dB/100m)	Power (KW)
0.5	79.00	62.200
1.0	112.00	43.700
5.0	258.00	19.100
10.0	431.00	13.300
20.0	603.00	9.200

Low Density HF086 Cable



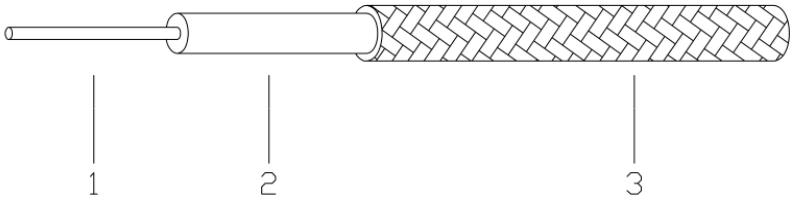
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.56	Silver Plated Copper Clad Steel
2.Dielectric	1.68	Low Density PTFE
3.Outer Conductor	2.18	Tin Soaked Copper Braid

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	76%
Shielding efficiency	>165dB
Bent Radius (mm)	7mm
Dielectric Constant	1.73
Time Delay	4.38nS/m
Capacitane	87.7 pF/m
Inductance	0.23 uH/m
Operating Frequency	50GHz
Voltage Withstand	600DC
Temperature Scope	-65 to 250℃

Attenuation (+25℃ Ambient) & Power Handing (+40℃ Ambient, Sea level, VSWR 1:1)		
Frequency (MHz)	Attenuation (Db/100m)	Power (KW)
30MHz	9.45	1.511
50MHz	12.21	1.170
100MHz	17.28	0.826
300MHz	30.00	0.476
500MHz	38.80	0.368
900MHz	52.19	0.274
1000MHz	55.04	0.259
1500MHz	67.58	0.211
2000MHz	78.19	0.183
3000MHz	96.09	0.149
4000MHz	111.27	0.128
5000MHz	124.71	0.114
6000MHz	136.93	0.104
8000MHz	158.74	0.090
10000MHz	178.10	0.080
12000MHz	195.72	0.073
12400MHz	199.07	0.072
13500MHz	208.04	0.069
15000MHz	219.75	0.065
18000MHz	241.65	0.059
24000MHz	280.93	0.051
26500MHz	295.96	0.048
35000MHz	342.81	0.042
40000MHz	368.00	0.039
50000MHz	414.55	0.034

HF086 Cable

RoHS



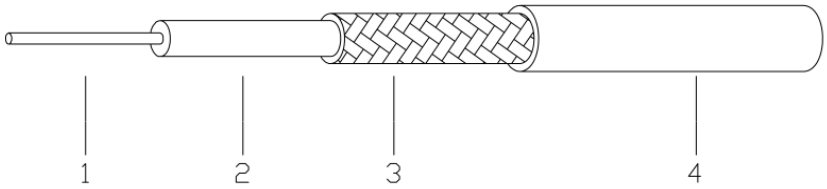
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.51	Silver Plated Copper Clad Steel
2.Dielectric	1.66	PTFE
3. Outer Conductor	2.10	Tin Soaked Copper Braid

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	69.5%
Capacitance (PF/m)	92
Min Bent Radius (mm)	6mm
Min Bending Radius Repeated(mm)	20
Time Delay	4.7nS/m
Max. Operating Voltage	1.5kVrms
Min. Screnning Effectiveness up to 18GHz(dB)	100
Operating Frequency	61GHz
Operating Temperature	-55 to 125℃

Attenuation (+20℃ Ambient) & Power Handing (+40℃ Ambient, Sea level, VSWR 1:1)		
Frequency (GHz)	Attenuation (dB/100m)	Power (KW)
0.5	45.00	173.500
1.0	64.00	121.500
5.0	151.00	52.200
10.0	222.00	35.800
20.0	329.00	24.300

HF086 FEP Cable

RoHS



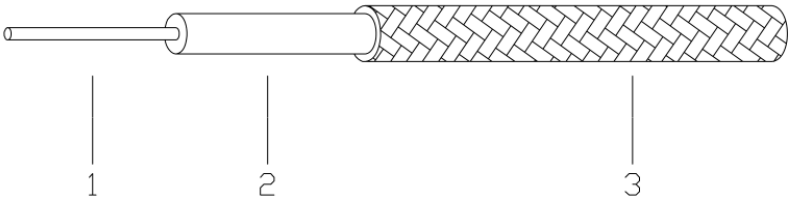
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.51	Silver Plated Copper Clad Steel
2.Dielectric	1.66	PTFE
3. Outer Conductor	2.10	Tin Soaked Copper Braid
4. Jacket	2.50	FEP

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	69.5%
Capacitance (PF/m)	95
Min Bent Radius (mm)	6mm
Min Bending Radius Repeated(mm)	20
Time Delay	4.7nS/m
Max. Operating Voltage	1.5kVrms
Min. Screnning Effectiveness up to 18GHz(dB)	100
Operating Frequency	61GHz
Operating Temperature	-55 to 125℃

Attenuation (+20℃ Ambient) & Power Handing (+40℃ Ambient, Sea level)		
Frequency (GHz)	Attenuation (dB/100m)	Power (KW)
0.5	45.00	173.500
1.0	64.00	121.500
5.0	151.00	52.200
10.0	222.00	35.800
20.0	329.00	24.300

HF141 Cable

RoHS



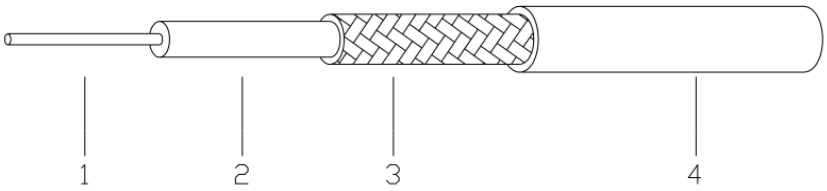
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.94	Silver Plated Copper Clad Steel
2.Dielectric	3.00	PTFE
3. Outer Conductor	3.52	Tin Soaked Copper Braid

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	70%
Capacitance (PF/m)	95.1
Min Bent Radius (mm)	8mm
Min Bending Radius Repeated(mm)	40
Time Delay	4.7nS/m
Max. Operating Voltage	1.9kVrms
Min. Screnning Effectiveness up to 18GHz(dB)	100
Operating Frequency	34GHz
Operating Temperature	-55 to 125℃

Attenuation (+25℃ Ambient) & Power Handing (+40℃ Ambient, Sea level, VSWR 1:1)		
Frequency (GHz)	Attenuation (dB/100m)	Power (CW)
0.5	26.00	436.500
1.0	39.00	303.400
5.0	92.00	126.700
10.0	138.00	85.500
20.0	210.00	56.600

HF141 FEP Cable

RoHS



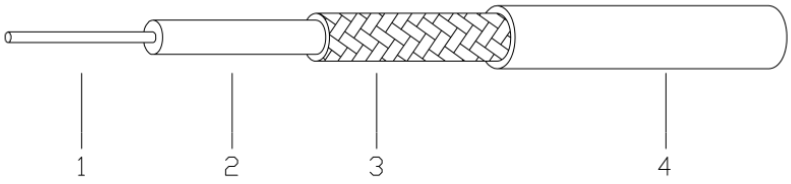
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	0.94	Silver Plated Copper Clad Steel
2.Dielectric	3.00	PTFE
3. Outer Conductor	3.52	Tin Soaked Copper Braid
4. Jacket	4.10	FEP

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	70%
Capacitance (PF/m)	95.1
Min Bent Radius (mm)	8mm
Min Bending Radius Repeated(mm)	40
Time Delay	4.7nS/m
Max. Operating Voltage	1.9kVrms
Min. Screnning Effectiveness up to 18GHz(dB)	100
Operating Frequency	34GHz
Operating Temperature	-55 to 125℃

Attenuation (+20℃ Ambient) & Power Handing (+40℃ Ambient, Sea level)		
Frequency (GHz)	Attenuation (dB/100m)	Power (CW)
0.5	26.00	436.500
1.0	39.00	303.400
5.0	92.00	126.700
10.0	138.00	85.500
20.0	210.00	56.600

HF250 FEP Cable

RoHS



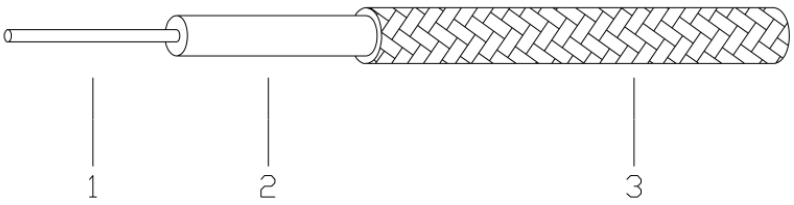
Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	1.63	Silver Plated Copper
2.Dielectric	5.27	PTFE
3. Outer Conductor	6.10	Tin Soaked Copper Braid
4. Jacket	6.85	FEP

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	69.5%
Capacitance (PF/m)	98
Min Bent Radius (mm)	30
Min Bending Radius Repeated(mm)	120
Time Delay	4.7nS/m
Max. Operating Voltage	3kVrms
Min. Screnning Effectiveness up to 18GHz(dB)	100
Operating Frequency	18GHz
Operating Temperature	-55 to 125℃

Attenuation (+20℃ Ambient) & Power Handing (+40℃ Ambient, Sea level, VSWR 1:1)	
Frequency (GHz)	Attenuation (dB/100m)
0.5	17.0
1.0	25.0
5.0	63.0
10.0	98.0
18.0	145.0

HF250 Cable

RoHS



Construction Specification		
Structure	Diameter(mm)	Materials
1.Inner Conductor	1.63	Silver Plated Copper
2.Dielectric	5.27	PTFE
3. Outer Conductor	6.10	Tin Soaked Copper Braid

Electrical Characteristics	
Impedance	50Ohm
Velocity(%)	69.5%
Capacitance (PF/m)	95
Min Bent Radius (mm)	30
Min Bending Radius Repeated(mm)	120
Time Delay	4.7nS/m
Max. Operating Voltage	3kVrms
Min. Screnning Effectiveness up to 18GHz(dB)	100
Operating Frequency	18GHz
Operating Temperature	-55 to 125℃

Attenuation (+20℃ Ambient) & Power Handing (+40℃ Ambient, Sea level, VSWR 1:1)	
Frequency (GHz)	Attenuation (dB/100m)
0.5	17.0
1.0	25.0
5.0	63.0
10.0	98.0
18.0	145.0