

0.047 inches(no jacket) SF-050

Series Number
SF-050
Semi Flexible Cables 0.047 inches(ϕ 1.2)



Small diameter coaxial cable (Φ 1.2)
 Narrow section, no outer sheath, cable for wiring
 Low cost yet stable transmission characteristics
 Hand forming is possible by replacing semi-rigid cables
 Frequency up to 26.5 GHz

Mechanical Characteristics

Outer Diameter/Coating	1.15mm	-
Center Conductor	0.29mm	Silver-plated copper-clad steel, Single
Insulator	0.9mm	PTFE
Outer Conductor1	1.15mm	Tin-plated soft copper wire + tin coating
Outer Conductor2	-	
Outer Conductor3	-	
Operating temperature	-35°C~+125°C(Typ.-65°C~+165°C)	
Bending radius (min.)	Inner R2mm	
Mass	5g/m	

Electrical Characteristics

Impedance	50 Ω
Insulation resistance (20°C)	1500M Ω · km(Min.)
Withstand voltage	AC250V / minute
Shield Characteristics	>100dB Typ.
Wavelength shortening rate	70%
Frequency(Max.)	26.5GHz
Insertion Loss (typ)	1.2dB/m(@1GHz) / 2.8dB/m(@5GHz)
VSWR (typ)	1.20 (SMA)

Applicable Connectors and Models

	SF	-	050	-	SP	-	SP	-	□□□□	-	△△
	①		②		③		④		⑤		⑥
			Cable Type		Connector1		Connector2		Length		Option
									⑤ L (mm)		
					③		④				
①	SF	RoHS compliant *Non-RoHS requests are negotiable.									
②	050	Cable Type									
③	SP	SMA(P)									~18GHz (~26.5G※)
	SJ	SMA(J)									~18GHz (~26.5G※)
④	SPJ	SMA(J)	With 4-hole flange							~18GHz (~26.5G※)	
	SPJ2	SMA(J)	With 2-hole flange							~18GHz (~26.5G※)	
	consultation	SMP									
	consultation	SMPM									
⑤	□□□□	Cable length (mm)									
⑥	No entry	Standard Specification									
	26.5G	Frequency ~26.5GHz ※							Only SMA(P) and SMA(J)		

In the case of standard specifications, ⑥ is not required to be filled in.

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Measured data

Model : SF-050-SP-SP-1000-26.5G
(SMAP-SMAP L=1m ~26.5GHz)

The data, etc. shown in the catalog are representative values and are not guaranteed.

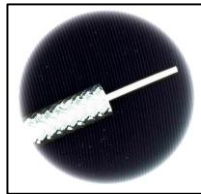
■ Actual Applications

Wiring in equipment.

Antenna wiring.

Directly attached to the board with one side wired out.

~K band (~26GHz)



■ Custom Cases

We can also customize the performance,
connectors, cable length, etc.

We can also customize the product according to your needs.

GHz	(Typ)	(Typ)
	I.L(dB)	VSWR(U)
1	-1.20	1.01
2	-1.69	1.02
3	-2.10	1.02
4	-2.46	1.02
5	-2.77	1.02
6	-3.06	1.05
7	-3.34	1.01
8	-3.58	1.03
9	-3.81	1.05
10	-4.04	1.04
11	-4.27	1.01
12	-4.48	1.05
13	-4.70	1.05
14	-4.88	1.03
15	-5.09	1.01
16	-5.28	1.01
17	-5.46	1.08
18	-5.68	1.05
19	-5.83	1.02
20	-6.04	1.01
21	-6.16	1.05
22	-6.37	1.05
23	-6.54	1.02
24	-6.70	1.06
25	-6.88	1.09
26	-7.04	1.04
26.5	-7.13	1.07
