

0.085 inches(no jacket) SF-021

Series Number
SF-021
Semi Flexible Cables 0.085 inches(ϕ 2.1)



Hand formed cable for internal wiring.
Easily bendable with semi-rigid cable replacement.
Can be attached to most high-frequency connectors.
Suitable for direct board-mounted cables with one-sided core wire out.
Frequency ~40GHz compatible

Mechanical Characteristics

Outer Diameter/Coating	2.1mm	-
Center Conductor	0.53mm	Silver plated copper wire, Single
Insulator	1.65mm	PTFE
Outer Conductor1	2.1mm	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 R6mm	
Mass	15g/m	

Electrical Characteristics

Impedance	50 Ω
Insulation resistance (20°C)	1500M $\Omega \cdot$ km(Min.)
Withstand voltage	AC1500V / minute
Allowable power (typ)	130W@1GHz / 66W@6GHz
Shield Characteristics	>100dB
Wavelength shortening rate	71%
Frequency(Max.)	40GHz
Insertion Loss (typ)	0.67dB/m(@1GHz) / 1.04dB/m(@5GHz)
VSWR (typ)	1.20(SMA), 1.25(N), 1.30(2.92mm)

Applicable Connectors and Models

SF ①	-	021 ②	-	SP ③	-	SP ④	-	□□□□ ⑤	-	△△ ⑥
		Cable Type		Connector1		Connector2		Length		Option
								⑤ L (mm)		
				③		④				
①	SF	RoHS compliant *Non-RoHS requests are negotiable.								
②	021	Cable Type								
③ ④	SP	SMA(P)	~18GHz (~26.5G※)							
	SJ	SMA(J)	~18GHz (~26.5G※)							
	SPJ	SMA(J) With 4-hole flange	~18GHz (~26.5G※)							
	SBJ	SMA(J) Bulkhead	~18GHz							
	SLP8	SMAL(P)	~8GHz							
	SLP	SMAL(P)	~18GHz consultation							
	2.92P	2.92mm(P)	~40GHz consultation							
	2.92J	2.92mm(J)								
	NP	N(P) Knurled nut	~12.4GHz							
	NP6	N(P) Hex nut	~18GHz							
	consultation	N(J)	consultation							
		SMP(F)								
		SMPM(F)								
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-021-2.92P-2.92P-1000
(2.92P-2.92P L=1m ~40GHz)

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

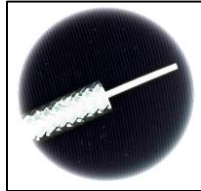
■ Actual Applications

Wiring in equipment.

Antenna wiring.

Directly attached to PCB with one side wired out.

~Ka band (~40GHz)



■ Custom Cases

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

We can also customize the product according to your needs.

MCX、MMCX、SMB、BNC

Phase and electrical length management.

Non-magnetic support.

GHz	(Typ)	(Typ)
	I.L.(dB)	VSWR(U)
1	-0.67	1.02
2	-0.98	1.02
3	-1.23	1.01
4	-1.44	1.02
5	-1.63	1.04
6	-1.81	1.03
7	-1.98	1.03
8	-2.14	1.07
9	-2.29	1.05
10	-2.44	1.03
11	-2.56	1.04
12	-2.72	1.06
13	-2.84	1.05
14	-2.98	1.05
15	-3.10	1.01
16	-3.26	1.07
17	-3.35	1.02
18	-3.51	1.12
19	-3.64	1.17
20	-3.74	1.15
21	-3.83	1.15
22	-3.92	1.19
23	-4.07	1.15
24	-4.17	1.10
25	-4.29	1.10
26	-4.46	1.06
27	-4.58	1.02
28	-4.70	1.15
29	-4.80	1.09
30	-4.93	1.20
31	-5.03	1.06
32	-5.09	1.04
33	-5.16	1.12
34	-5.22	1.10
35	-5.34	1.18
36	-5.44	1.11
37	-5.61	1.17
38	-5.73	1.18
39	-5.85	1.21
40	-5.94	1.12
