

# 0.085 inches(with jacket) SF-030

Series Number
<b>SF-030</b>
Semi Flexible Cables 0.085 inches(φ 2.7)



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 ~26.5GHz compatible

## Mechanical Characteristics

Outer Diameter/Coating	2.70mm	ETFE Blue
Center Conductor	0.51mm	Silver-plated copper-clad steel wire, Single
Insulator	1.58mm	PTFE
Outer Conductor1	2.10mm	Tin-plated soft copper wire +Tin coating
Outer Conductor2	-	
Outer Conductor3	-	
Operating temperature	-35°C~+125°C(Typ.-65°C~+125°C)	
Bending radius (min.)	Inner R6mm	
Mass	18g/m	

## Electrical Characteristics

Impedance	50 Ω
Insulation resistance (20°C)	1500MΩ · km(Min.)
Withstand voltage	AC1500V / minute
Allowable power (typ)	130W@1GHz / 44W@6GHz
Shield Characteristics	>100dB Typ.
Wavelength shortening rate	70%
Frequency(Max.)	26.5GHz
Insertion Loss (typ)	0.72dB/m(@1GHz) / 1.70dB/m(@5GHz)
VSWR (typ)	1.20(SMA)、1.25(N)

## Applicable Connectors and Models

SF ①	-	030 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	030	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							
	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-030-SP-SP-1000  
(SMAP-SMAP L=1m ~18GHz)

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

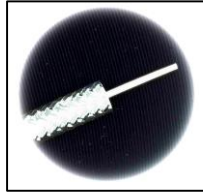
### ■ Actual Applications

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.

MCX、MMCX、SMB、BNC

Phase and electrical length management.

Connector neck tube can be bent

from the neck without reinforcement.

GHz	(Typ)	
	I.L.(dB)	VSWR(U)
1	-0.72	1.03
2	-1.04	1.01
3	-1.29	1.05
4	-1.50	1.08
5	-1.70	1.05
6	-1.87	1.04
7	-2.04	1.09
8	-2.20	1.10
9	-2.35	1.08
10	-2.48	1.04
11	-2.62	1.09
12	-2.77	1.10
13	-2.93	1.10
14	-3.04	1.07
15	-3.13	1.05
16	-3.27	1.08
17	-3.41	1.15
18	-3.53	1.10
19	-3.65	1.11
20	-3.78	1.02
21	-3.86	1.10
22	-4.00	1.08
23	-4.13	1.09
24	-4.28	1.07
25	-4.58	1.26
26	-4.43	1.05
26.5	-4.56	1.12

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