

0.141 inches(with jacket) SF-039

Series Number
SF-039
Semi Flexible Cables 0.141 inches(φ 4.1)



Hand formed cable for internal wiring.
Easily bendable with semi-rigid cable replacement.
Wide variety of connectors that can be attached in general sizes.
Suitable for cables directly attached to boards with one-sided core wire out.
Frequency to 26.5GHz compatible

Mechanical Characteristics

Outer Diameter/Coating	4.1mm	FEP Blue
Center Conductor	0.93mm	Silver-plated copper-clad steel, Single
Insulator	2.86mm	PTFE
Outer Conductor1	3.50mm	Tin-plated soft copper wire braid + tin coating
Outer Conductor2	-	
Outer Conductor3	-	
Operating temperature	-35°C~+125°C(Typ.-65°C~+125°C)	
Bending radius (min.)	Inner R6mm	
Mass	39g/m	

Electrical Characteristics

Impedance	50 Ω
Insulation resistance (20°C)	1500MΩ · km(Min.)
Withstand voltage	AC3000V / minute
Allowable power (typ)	450W@1GHz / 150W@6GHz
Shield Characteristics	>100dB Typ.
Wavelength shortening rate	70%
Frequency(Max.)	26.5GHz
Insertion Loss (typ)	0.43dB/m(@1GHz) / 1.04dB/m(@5GHz)
VSWR (typ)	1.2

Applicable Connectors and Models

SF ①	-	039 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	039	Cable Type								
③	SP	SMA(P)	~18GHz (~26.5G※)							
	SJ	SMA(J)	~18GHz (~26.5G※)							
	SPJ	SMA(J) With 4-hole flange	~18GHz (~26.5G※)							
④	SLP	SMAL(P)	~12.4GHz							
	NP	N(P) Knurled nut	~12.4GHz							
	NP6	N(P) Hex nut	~18GHz							
	consultation	N(J) TNC	consultation							
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.

It is also possible to eliminate the reinforcement of the connector neck tube and have it bend from the neck.

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Measured data

Model : SF-039-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.

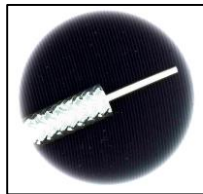
■ Actual Applications

Wiring in equipment.

Antenna wiring.

~K band (~26.5GHz)

Directly attached to PCB with one side wired out.



■ Custom Cases

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

We can also customize the product according to your needs.

TNC、MCX、BNC

Phase, electrical length management, delay line.

No tube reinforcement at connector neck
(e.g., if you want to bend from the neck).

GHz	(Typ)	(Typ)
	I.L.(dB)	VSWR(U)
1	-0.43	1.01
2	-0.60	1.02
3	-0.76	1.02
4	-0.90	1.02
5	-1.04	1.04
6	-1.16	1.08
7	-1.27	1.03
8	-1.38	1.06
9	-1.47	1.08
10	-1.58	1.03
11	-1.67	1.05
12	-1.76	1.09
13	-1.85	1.04
14	-1.98	1.11
15	-2.03	1.08
16	-2.16	1.12
17	-2.23	1.05
18	-2.31	1.07
19	-2.37	1.05
20	-2.49	1.06
21	-2.57	1.02
22	-2.66	1.05
23	-2.73	1.06
24	-2.80	1.05
25	-2.89	1.02
26	-2.97	1.02
26.5	-3.00	1.05
