

0.141 inches(no jacket) SF-014

Series Number
SF-014
Semi Flexible Cables 0.141 inches(ϕ 3.6)



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 direct board-mounted cables due to one-sided core wire out. 2.92mm (TYPE) connectors support up to 30GHz. stable low reflection characteristics up to 30GHz. Low-cost support for local 5G (28GHz band).

Mechanical Characteristics

Outer Diameter/Coating	3.58mm	-
Center Conductor	0.94mm	Silver-plated copper-coated steel, Single
Insulator	2.95mm	PTFE
Outer Conductor1	3.58mm	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 R8mm	
Mass	40g/m	

Electrical Characteristics

Impedance	50Ω
Insulation resistance (20°C)	1500MΩ
Withstand voltage	1900VRMS / minute
Allowable power (typ)	330W@1GHz / 165W@6GHz
Shield Characteristics	>100dB Typ.
Wavelength shortening rate	71%
Frequency(Max.)	30GHz
Insertion Loss (typ)	0.37dB/m(@1GHz) / 0.96dB/m(@5GHz)
VSWR (typ)	1.2

Applicable Connectors and Models

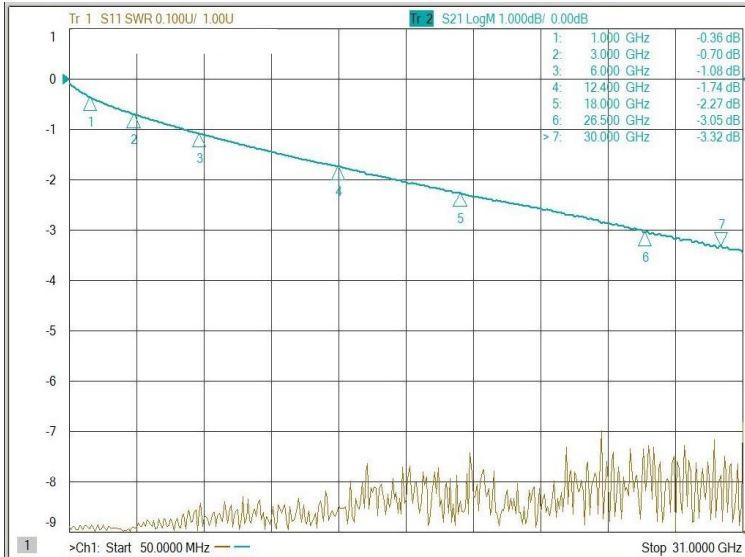
SF ①	-	014 ②	-	SP ③	-	SJ ④	-	□□□□ ⑤	-	△△ ⑥
		Cable Type		Connector1		Connector2		Length		Option
								⑤ L (mm)		
				③		④				
①	SF	RoHS compliant *Non-RoHS requests are negotiable.								
②	014	Cable Type								
③ ④	2.92P	2.92mm(P)-TYPE	~30GHz							
	SP	SMA(P)	~18GHz (~26.5GHz ※)							
	SJ	SMA(J)	~18GHz (~26.5GHz ※)							
	SPJ	SMA(J) With 4-hole flange	~18GHz (~26.5GHz ※)							
	SLP	SMAL(P)	~18GHz							
	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.

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Measured data

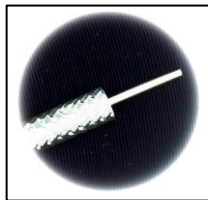
Model : SF-014-2.92P-2.92P-1000
 (2.92mm(P)-2.92mm(P) L=1m ~30GHz)



GHz	I.L.(dB) (Typ)	VSWR(U) (Typ)
1	-0.37	1.01
2	-0.56	1.01
3	-0.71	1.01
4	-0.84	1.01
5	-0.96	1.03
6	-1.08	1.04
7	-1.20	1.03
8	-1.31	1.07
9	-1.42	1.00
10	-1.52	1.02
11	-1.62	1.04
12	-1.71	1.04
13	-1.80	1.03
14	-1.91	1.09
15	-2.01	1.08
16	-2.09	1.07
17	-2.18	1.05
18	-2.27	1.06
19	-2.36	1.12
20	-2.44	1.04
21	-2.52	1.02
22	-2.60	1.05
23	-2.71	1.11
24	-2.78	1.09
25	-2.90	1.16
26	-2.97	1.11
27	-3.10	1.02
28	-3.16	1.13
29	-3.25	1.10
30	-3.35	1.02

Actual Applications

- Local 5G communication.
- Wiring in equipment.
- Antenna wiring.
- ~K band (~30GHz)
- Directly attached to PCB with one side wired out.



Custom Cases

We can also customize the performance, connectors, cable lengths, etc., to non-standard specifications. TNC, MCX, BNC.

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