

Impedance Control Film for FFC

Heat-sealing type

SF-FC334 / 374



The SF-FC334 / 374 is the heat-sealing type functional conductive film, it can control Impedance of FFC.

It is designed for controlling differential Impedance at 100Ω, when FFC has it on both sides.

The differential Impedance at 100Ω is necessary for transmission lines in LVDS. Its' slim and light design can promote flexibility of FFC.

Features

- ▶ Controlling differential impedance at 100Ω that is suitable for LVDS

It can control impedance at single-end 50Ω by conductor being formed a mesh structure and bonding double sided (wound up).

- ▶ Enable slim and lightweight design without degrading a flexibility of FFC

Although it has 3 layer structure, Base film, mesh foaming conductive layer, the total thickness is 32μm. Therefore it can not degrade flexibility of FFC.

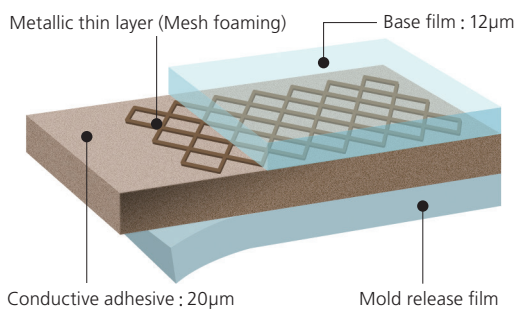
- ▶ Bond at low temperature for short time

With developing special thermo plastic adhesive, it can be bonded to PET film that is a base material for FFC without any heat damage.

- ▶ Provide free in product width from 15 to 570mm

To meet FFC size, it can be provided the custom width.

Cross Sectional Structure of SF-FC334 / 374



Product specification

Items		Specification	
		SF-FC334	SF-FC374
Base film	Material	PET	PET
	Thickness	12μm	12μm
Metallic thin layer	Material	Cu	Cu
	Thickness	1000Å (about 0.1μm)	1000Å (about 0.1μm)
	Mesh foam	L =0.3mm / S =2.7mm	L =0.3mm / S =6.7mm
Conductive adhesive	Resin	Polyester(Thermo plastic type)	Polyester(Thermo plastic type)
	Thickness	20μm	20μm
	Adhesive strength	3.0N / cm or more (against PET)	3.0N / cm or more (against PET)
Mold release film	Material	OPP	OPP
	Thickness	40μm	40μm

Standard pressing condition

Hot pressing	Temperature	120 to 130°C
	Time	5 to 10 sec
	Pressure	0.5 to 1.0 MPa