Hirose Flex Circuit Connectors

For 0.5mm Pitch



	II FILCII					
Series Name:	FH12-SH SERIES	FH16	FHI9 SERIES	FH28	FH31	FH33
Category:	FPC/ FFC Connector (ZIF)	FPC Connector (ZIF)	FPC Connector (ZIF)	FPC/ FFC Connector (ZIF)	FPC/ FFC Connector (ZIF)	FPC/ FFC Connector (ZIF)
Contact Pitch:	0.5mm / 1mm	0.5mm	0.5mm	0.5mm	0.5mm/ 1mm	0.5mm/ 0.4mm/ 1.0mm
Variations Available:	FH12: Bottom contact	FH16H:	FH19C: For 0.2mm thick FPC	9SC: For 0.3mm FFE FPC 9D: For 0.2mm FFE FPC with side thed and nickel	FH31H: 1.8mm height	FH33:Standard FH33J: Halogen free, with UL-flammability rating 94V-0
	FH12A: Top contact	0.5mm pitch				
	FH12S: Bottom contact, strengthened actuator	FH16: 0.3mm pitch	FH19SC: For 0.3mm thick FPC			
	FH12E: Bottom contact, higher actuator retention force	FH16M: 0.4mm pitch	thick FPC with side catched and nickel barrier		FH31S: Thicker actuator and	
	FH12EW: Bottom contact, higher actuator retention force, Halogen free	FH16P:	FH19SD: For 0.3mm thick FPC with side catches and nickel barrier	FH28H: Shorter actuator	2.4mm height	FH33W: Halogen free, with UL- flammability rating 94H-B
	FH12F: Bottom contact, 0.18 FPC thickness	0.5mm pitch				
Pin Count:	Varies from style to style. Refer to FH series catalog. 4-60 positions	FH16: 60, 80, 90 FH16H: 50 FH16M: 80, 96 FH16P: 64	Varies from style to style. Refer to FH series catalog. 4-50 positions	Varies from style to style. Refer to FH series catalog. 10, 15, 20, 28, 30, 40, 45, 50, 55, 60, 64, 68, 74, 80	Varies from style to style. Refer to FH series catalog. 0.5 = 56, 64, 68, 80 1.0 = 16, 32	Varies from style to style. Refer to FH series catalog. 4,6,9,10,12,14,16, 19,20,26,28,30,32, 36,40,45,65
Type of Connector:	Top, Bottom, Vertical	Bottom contact: Staggered row type	Bottom contact	Bottom contact	Bottom contact	Bottom contact
Contact Plating:	Gold flash over phosphor bronze base.	Gold flash over phosphor bronze base.	Gold flash over phosphor bronze base.	Gold flash over phosphor bronze base.	Gold flash over nickel with phosphor bronze base.	Gold flash over phosphor bronze base.
Contact Tail:	SMT: Horizontal and Vertical	SMT: Horizontal	SMT: Horizontal	SMT: Horizontal	SMT: Horizontal	SMT: Horizontal
Mating Cycle:	20	20	20	20	20	20
Nominal Height of Board:	Horizontal: 2mm Vertical: 5.5mm (S) Version	Horizontal: 3.0mm	Horizontal: 0.9mm	Horizontal: 2.55mm	Horizontal: 1.8 - 2.4mm	Horizontal: 1.2mm
Rated Current:	Horizontal : 2.4mm 0.5A for 0.5mm and 1mm	0.4 Amps for 0.5 pitch	0.5 Amps	0.5 Amps	0.5 Amps	0.5 Amps
Rated Voltage:	50 VAC	60 VAC for 0.5 pitch	50 VAC	50 VAC	50 VAC	50 VAC
Side Catches:	No	Yes	Yes, but only on D or SD version	Yes	Yes	No
Locking Mechanism:	Standard Version: Front flip lock actuator (S) Version: Strengthened front flip actuator	Rotating front flip lock actuator	Rotating front flip lock actuator	Front Flip. Strengthened flip lock actuator that can withstand 70 Newtons	Rotating front flip lock actuator	Rotating front flip lock actuator
FPC Acceptable Thickness:	0.3mm (+/-) 0.05mm	0.3mm (+/-)	(C) & (D) Version: 0.2mm (+/-) 0.03mm	0.3mm (+/-)	0.3mm (+/-) 0.05mm	0.3mm (+/-) 0.05mm
	(F) Version : 0.18mm (+/-) 0.05mm	0.05mm	(SC) & (SD) Version: 0.3mm (+/-) 0.03mm	0.05mm ´		

Hirose Flex Circuit Connectors



For 0.5mm Pitch

FOI U.SIIIIII					
Series Name:	Phone and the second				
	FH34S	FH40	FH41	FH48	
Category:	FPC/ FFC Connector (ZIF)	FPC/ FFC Connector (ZIF)	FFC Connector (ZIF)	FFC Connector (ZIF)	
Contact Pltch:	0.5mm	0.5mm	Ground contact: 2.5mm Signal contact: 0.5mm	Ground contact: 2.5mm Signal contact: 0.5mm	
Variations Available:	FH34S: Standard top contact. Same PCB pattern as FH19 Series		FH41: Standard, high speed transmission,	FH48: Standard, high speed transmission, halogen free, with ground contacts and strengthened actuator	
	FH34SW: Bottom contact, halogen free	FH40 : Standard, halogen free	halogen free, with ground contacts and strengthened actuator		
	FH34SRJ: Bottom contact and halogen free		g		
Pin Count:	Varies from style to style. Refer to FH series catalog. 4,6,7,8,11,14,16,20, 22,23,24,26,30,32,34	10,20,24,30,40, 45,50,60,64,80	40,50,68, (28 Pos Under Development)	31,40,50	
Type of Connector:	FH34SJ / FH34SW = top contact FH34SR / FH34SRJ = bottom contact	Vertical	Bottom Contact	Vertical	
Contact Plating:	Gold flash over nickel with phosphor bronze base	Gold flash over nickel with phosphor bronze base	Gold flash over nickel with phosphor bronze base	Gold flash over nickel with phosphor bronze base	
Contact Tail:	SMT: Horizontal	SMT: Vertical	SMT: Horizontal	SMT: Vertical	
Mating Cycle:	20	20	20	20	
Nominal Height from Board:	Horizontal: 1.0mm	Vertical: 5.8	Horizontal: 2.5mm	Horizontal: 6.8mm (With latch open)	
Rated Current:	0.5 Amps	0.5 Amps	0.5 Amps	0.5 Amps	
Rated Voltage:	50 VAC	50 VAC	50 VAC	50 VAC	
Side Catches:	NO	YES	YES	YES	
Locking Mechanisms:	Rotating, back flip lock actuator	Rotating flip lock actuator	Rotating, front flip lock actuator	Rotating flip lock actuator	
FPC Acceptable Thickness:	0.3mm (+/-) 0.03mm	0.3mm (+/-) 0.05mm	0.3mm (+/-) 0.05mm	0.3mm (+/-) 0.05mm	