
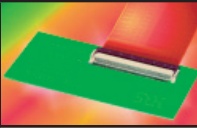


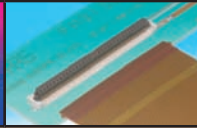
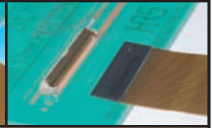


Hirose Flex Circuit Connectors

For 0.5mm Pitch


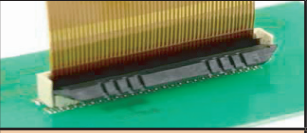

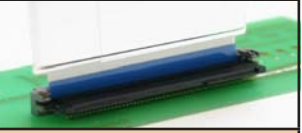


Series Name:						
	FH12	FH16	FH19	FH28	FH31	FH33
Category:	FPC/ FFC Connector (ZIF)	FPC Connector (ZIF)	FPC Connector (ZIF)	FPC/ FFC Connector (ZIF)	FPC/ FFC Connector (ZIF)	FPC/ FFC Connector (ZIF)
Contact Pitch:	0.5mm / 1mm	0.5mm	0.5mm	0.5mm	0.5mm/ 1mm	0.5mm/ 0.4mm/ 1.0mm
Variations Available:	FH12: Bottom contact	FH16H: 0.5mm pitch	FH19C: For 0.2mm thick FPC	FH28: Standard	FH31H: 1.8mm height	FH33: Standard
	FH12A: Top contact		FH19SC: For 0.3mm thick FPC			
	FH12S: Bottom contact, strengthened actuator	FH16: 0.3mm pitch	FH19D: For 0.2mm thick FPC with side catches and nickel barrier	FH28E: Longer metal fitting		
	FH12E: Bottom contact, higher actuator retention force	FH16M: 0.4mm pitch	FH19SD: For 0.3mm thick FPC with side catches and nickel barrier	FH28H: Shorter actuator	FH33W: Halogen free, with UL-flammability rating 94H-B	
	FH12EW: Bottom contact, higher actuator retention force, Halogen free	FH16P: 0.5mm pitch				
	FH12F: Bottom contact, 0.18 FPC thickness					
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 : 2.4mm	Horizontal: 3.0mm	Horizontal: 0.9mm	Horizontal: 2.55mm	Horizontal: 1.8 - 2.4mm	Horizontal: 1.2mm
Rated Current:	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 (F) Version: 0.18mm (+/-) 0.05mm	0.3mm (+/-) 0.05mm	(C) & (D) Version: 0.2mm (+/-) 0.03mm (SC) & (SD) Version: 0.3mm (+/-) 0.03mm	0.3mm (+/-) 0.05mm	0.3mm (+/-) 0.05mm	0.3mm (+/-) 0.05mm

Hirose Flex Circuit Connectors

For 0.5mm Pitch



Series Name:				
	FH34S	FH40	FH41	FH48
Category:	FPC/ FFC Connector (ZIF)	FPC/ FFC Connector (ZIF)	FFC Connector (ZIF)	FFC Connector (ZIF)
Contact Pitch:	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	FH40: Standard, halogen free	FH41: Standard, high speed transmission, halogen free, with ground contacts and strengthened actuator	FH48: Standard, high speed transmission, halogen free, with ground contacts and strengthened actuator
	FH34SW: Bottom contact, halogen free			
	FH34SRJ: Bottom contact and halogen free			
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