



0.5mm and 1.0mm FFC/FPC Connectors FH12, FH12A, FH12F and FH12S Series — “Flip-Lock” SMT/ZIF Type Flexible Printed Circuit Board Connectors (Cont.)



A

Fig.	No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Hirose Part No.
		A	B		1	25	100	250		Qty.	Pricing	
1	45	23.07	26.6	HFA145CT-ND	2.80	2.18	1.74	1.41	HFA145TR-ND	2,000	1231.30/M	FH12S-45S-0.5SH(55)
	50	25.57	29.1	HFA150CT-ND	3.03	2.36	1.89	1.52	HFA150TR-ND	2,000	1332.94/M	FH12S-50S-0.5SH(55)
1.0mm Horizontal Mount* — Bottom Contact Type												
1	7	8.07	11.6	HFB07CT-ND	.97	.70	.58	.49	HFB07TR-ND	2,000	329.61/M	FH12-7S-1SH
	11	12.07	15.6	HFB11CT-ND	1.16	.85	.69	.59	HFB11TR-ND	2,000	397.12/M	FH12-11S-1SH
	26	27.07	30.6	HFB26CT-ND	1.37	1.06	.85	.71	HFB26TR-ND	—	—	FH12-26S-1SH
1.0mm Horizontal Mount* — Bottom Contact Type — RoHS Compliant												
1	5	6.07	9.6	HFB105CT-ND	1.10	.80	.66	.56	HFB105TR-ND	2,000	377.52/M	FH12-5S-1SH(55)
	6	7.07	10.6	HFB106CT-ND	1.13	.82	.67	.57	HFB106TR-ND	2,000	386.96/M	FH12-6S-1SH(55)
	7	8.07	11.6	HFB107CT-ND	1.18	.86	.71	.60	HFB107TR-ND	2,000	405.84/M	FH12-7S-1SH(55)
	8	9.07	12.6	HFB108CT-ND	1.21	.88	.72	.61	HFB108TR-ND	2,000	415.27/M	FH12-8S-1SH(55)
	9	10.07	13.6	HFB109CT-ND	1.21	.88	.72	.61	HFB109TR-ND	2,000	434.15/M	FH12-9S-1SH(55)
	11	12.07	15.6	HFB111CT-ND	1.18	.91	.73	.61	HFB111TR-ND	2,000	463.19/M	FH12-11S-1SH(55)
	16	17.07	20.6	HFB116CT-ND	1.37	1.06	.85	.70	HFB116TR-ND	2,000	537.24/M	FH12-16S-1SH(55)
	22	23.07	26.6	HFB122CT-ND	1.51	1.17	.93	.78	HFB122TR-ND	2,000	592.42/M	FH12-22S-1SH(55)
26	27.07	30.6	HFB126CT-ND	1.66	1.28	1.02	.85	HFB126TR-ND	2,000	648.32/M	FH12-26S-1SH(55)	
1.0mm Vertical Mount* — RoHS Compliant												
3	7	6	10.9	HFC07CT-ND	1.21	.88	.72	.61	—	—	—	FH12-7S-1SV
	8	7	11.9	HFC08CT-ND	1.29	.93	.76	.65	HFC08TR-ND	1,000	448.67	FH12-8S-1SV
	20	19	23.9	HFC20CT-ND	1.44	1.11	.89	.74	—	—	—	FH12-20S-1SV
	22	21	25.9	HFC22CT-ND	1.54	1.19	.95	.79	—	—	—	FH12-22S-1SV
24	23	27.9	HFC24CT-ND	1.61	1.24	1.00	.83	—	—	—	FH12-24S-1SV	
1.0mm Vertical Mount* — RoHS Compliant												
3	6	5	9.9	HFC106CT-ND	1.18	.91	.73	.61	HFC106TR-ND	1,000	482.79	FH12-6S-1SV(55)
	8	7	11.9	HFC108CT-ND	1.25	.97	.77	.64	HFC108TR-ND	1,000	511.83	FH12-8S-1SV(55)
	16	15	19.9	HFC116CT-ND	1.60	1.24	.99	.82	HFC116TR-ND	1,000	656.30	FH12-16S-1SV(55)
	20	19	23.9	HFC120CT-ND	1.82	1.40	1.12	.93	HFC120TR-ND	1,000	743.42	FH12-20S-1SV(55)
24	23	27.9	HFC124CT-ND	2.08	1.60	1.28	1.07	HFC124TR-ND	1,000	849.42	FH12-24S-1SV(55)	

* Note: The 1.0mm version of FH12 is constructed by loading every other contact into the 0.5mm housing

SMT Zif Type Flexible PCB Connectors

FEATURES:

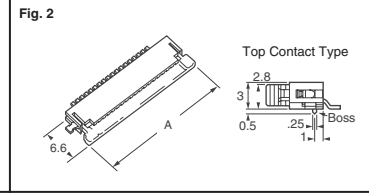
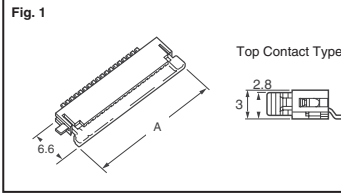
- Low profile type with 3mm packaged height; 1mm pitch permits high-density packaging
- Excellent workability is offered by the ZIF structure which provides positive contact by only lightly inserting FPC/FFC and then pushing in the movable locking flap
- Recommended thickness of flexible circuit board is 0.25mm - 0.30mm
- PPS (UL94V-0) with excellent solvent resistance and high temperature resistance is used for the

insulation material • The SMT type connectors permit high density and automatic packaging on circuit boards

MATERIAL/FINISH:

- Insulator: PPS Resin, natural finish
- Contacts: Phosphor Bronze, tin plating
- Electrical: • Rated Current: 0.5A • Insulator Resistance: 500MΩ at 100VDC minimum • Withstanding Voltage: 150VAC for 1 minute at specified value • Contact Resistance: 25mΩ maximum

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each				Hirose Part No.
			1	10	100	250	
Fig. 1 - SMT Flex without Board Mount Boss							
12	18.2	HFE12F-ND	1.39	1.16	.86	.72	FH10A-12S-1SH
24	30.2	HFE24F-ND	1.98	1.65	1.22	1.02	FH10A-24S-1SH
Fig. 2 - SMT Flex with Board Mount Boss							
8	14.2	HFH08T-ND	1.02	.84	.61	.52	FH10A-8S-1SHB
30	36.2	HFH30T-ND	2.17	1.80	1.35	1.09	FH10A-30S-1SHB

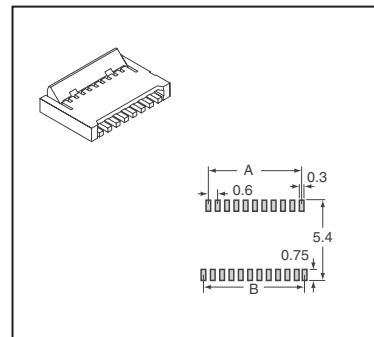


0.3mm-Pitch Rotary Backlock FPC Connector - XF2B



SPECIFICATIONS: • Rated Current: 0.2A AC/DC • Rated Voltage: 50V AC/DC • Insertion Tolerance: 20 times • Operating Temperature: -30°C - 85°C **MATERIALS/FINISH:** • Housing: LCP resin (UL94V-0)/natural • Slider: LCP resin (UL94V-0)/black • Contact: Spring copper alloy/nickel substrate (2µm), gold-plated contacts (0.15µm)

No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing	Omron Part No.
	A	B		1	25	50		1,500	
17	4.2	4.8	OR694CT-ND	1.18	1.07	.95	—	—	XF2B-1745-31A
21	5.4	6.0	OR857CT-ND	1.37	1.24	1.10	OR857TR-ND	684.89/M	XF2B-2145-31A
23	6.0	6.6	OR695CT-ND	1.46	1.32	1.17	OR695TR-ND	730.27/M	XF2B-2345-31A
25	6.6	7.2	OR858CT-ND	1.52	1.37	1.22	OR858TR-ND	757.40/M	XF2B-2545-31A
27	7.2	7.8	OR773CT-ND	1.57	1.42	1.26	OR773TR-ND	784.54/M	XF2B-2745-31A
31	8.4	9.0	OR696CT-ND	1.75	1.58	1.40	—	—	XF2B-3145-31A
33	9.0	9.6	OR697CT-ND	1.89	1.70	1.51	OR697TR-ND	942.35/M	XF2B-3345-31A
35	9.6	10.2	OR859CT-ND	1.99	1.79	1.60	OR859TR-ND	994.53/M	XF2B-3545-31A
45	12.6	13.2	OR860CT-ND	2.29	2.06	1.83	OR860TR-ND	1142.64/M	XF2B-4545-31A
51	14.4	15.0	OR772CT-ND	2.53	2.28	2.03	OR772TR-ND	1265.60/M	XF2B-5145-31A
61	17.4	18.0	OR776CT-ND	2.82	2.55	2.26	OR776TR-ND	1412.16/M	XF2B-6155-31A

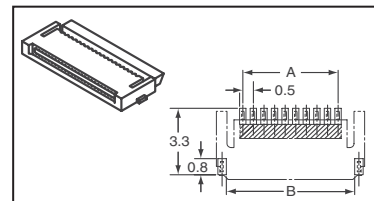


0.5mm-Pitch Rotary Backlock FPC Connector - XF2W



FEATURES: • Double-sided contacts reduce the number of parts • Wire molding wall on the rear bottom of the connector allows greater freedom in board design • Applicable FPC thickness of 0.3mm **SPECIFICATIONS:** • Rated Current: 0.5A AC/DC • Rated Voltage: 50V AC/DC • Insertion Tolerance: 20 times • Operating Temperature: -30°C - 85°C **MATERIALS/FINISH:** • Housing: LCP resin (UL94V-0)/natural • Slider: LCP resin (UL94V-0)/brown • Contact: Spring copper alloy/nickel substrate (2µm), gold-plated contacts (0.15µm) • Hold-down: Spring copper alloy/fused-tin plating (2µm)

No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing	Omron Part No.
	A	B		1	25	50		2,000	
16	7.5	9.1	OR875CT-ND	.65	.59	.53	OR875TR-ND	325.61/M	XF2W-1615-1A
20	9.5	11.1	OR876CT-ND	.86	.77	.69	OR876TR-ND	426.80/M	XF2W-2015-1A
24	11.5	13.1	OR877CT-ND	1.02	.93	.82	OR877TR-ND	512.01/M	XF2W-2415-1A
64	31.5	33.1	OR878CT-ND	2.34	2.11	1.88	OR878TR-ND	1169.77/M	XF2W-6415-1AE



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