

# molex® 1.0 mm (.039") Pitch Standard Length Jumpers



**Features and Specifications:** Molex introduces a complete line of 1.0 (.039") pitch Flat Flex Cable jumpers. These jumpers are used to connect 2 PC boards and terminate to either ZIF or Non-ZIF FFC Connectors. **Reference Information:** UL Style No.: 2896. Mates with: Any 1.00mm (.039") Pitch Molex FFC/FPC Connector. Designed in: Millimeters **Electrical:** Voltage: 30V, Current: 1.3A **Physical:** Strip Length: 4.0mm (.157"). Reinforcement Length: 8.00mm (.315"). Conductor Width: 0.70mm (.028"). Conductor Thickness: 0.10mm (.004"). End Thickness: 0.30±0.05mm (.012±.002"). Temperature: -40°C ~ 80°C • Contacts on same side

**A**

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each	Molex Part No.			
			1	10	100	250	
<b>2" (5.08cm) Unshielded Flat Flex Cable</b>							
6	7.15	WM10000-ND	1.24	1.17	1.07	.96	21039-0203
8	9.15	WM10001-ND	1.27	1.20	1.10	.99	21039-0225
10	11.15	WM10002-ND	1.31	1.24	1.13	1.02	21039-0247
12	13.15	WM10003-ND	1.35	1.28	1.16	1.05	21039-0269
14	15.15	WM10004-ND	1.39	1.31	1.19	1.07	21039-0291
16	17.15	WM10005-ND	1.43	1.35	1.23	1.11	21039-0313
18	19.15	WM10006-ND	1.47	1.39	1.27	1.14	21039-0335
20	21.15	WM10007-ND	1.53	1.45	1.32	1.19	21039-0357
22	23.15	WM10008-ND	1.55	1.47	1.33	1.20	21039-0379
24	25.15	WM10009-ND	1.64	1.55	1.41	1.27	21039-0401
26	27.15	WM10010-ND	1.65	1.56	1.42	1.28	21039-0423
28	29.15	WM10011-ND	1.66	1.57	1.43	1.29	21039-0445
30	31.15	WM10012-ND	1.67	1.58	1.44	1.30	21039-0467
<b>3" (7.62cm) Unshielded Flat Flex Cable</b>							
6	7.15	WM10013-ND	1.21	1.15	1.04	.94	21039-0205
8	9.15	WM10014-ND	1.26	1.19	1.08	.98	21039-0227
10	11.15	WM10015-ND	1.31	1.24	1.13	1.01	21039-0249
12	13.15	WM10016-ND	1.34	1.27	1.16	1.12	21039-0271
14	15.15	WM10017-ND	1.41	1.33	1.21	1.09	21039-0293
16	17.15	WM10018-ND	1.46	1.38	1.25	1.13	21039-0315
18	19.15	WM10019-ND	1.52	1.44	1.31	1.18	21039-0337
20	21.15	WM10020-ND	1.60	1.51	1.38	1.24	21039-0359
22	23.15	WM10021-ND	1.62	1.53	1.39	1.26	21039-0381
24	25.15	WM10022-ND	1.82	1.72	1.57	1.52	21039-0403
26	27.15	WM10023-ND	1.75	1.66	1.51	1.36	21039-0425
30	31.15	WM10025-ND	1.79	1.69	1.54	1.38	21039-0469
<b>4" (10.16cm) Unshielded Flat Flex Cable</b>							
6	7.15	WM10026-ND	1.16	1.10	1.00	.90	21039-0207
8	9.15	WM10027-ND	1.22	1.15	1.05	.94	21039-0229
10	11.15	WM10028-ND	1.27	1.21	1.10	.99	21039-0251
12	13.15	WM10029-ND	1.34	1.27	1.15	1.04	21039-0273
14	15.15	WM10030-ND	1.40	1.32	1.20	1.08	21039-0295
16	17.15	WM10031-ND	1.58	1.49	1.36	1.32	21039-0317
18	19.15	WM10032-ND	1.53	1.45	1.32	1.19	21039-0339
20	21.15	WM10033-ND	1.63	1.54	1.40	1.26	21039-0361
22	23.15	WM10034-ND	1.65	1.56	1.42	1.28	21039-0383
24	25.15	WM10035-ND	1.75	1.65	1.51	1.46	21039-0405
26	27.15	WM10036-ND	1.80	1.71	1.55	1.40	21039-0427
28	29.15	WM10037-ND	1.83	1.73	1.57	1.41	21039-0449
30	31.15	WM10038-ND	1.84	1.74	1.59	1.43	21039-0471
<b>5" (12.70cm) Unshielded Flat Flex Cable</b>							
6	7.15	WM10039-ND	1.16	1.09	1.00	.90	21039-0209
8	9.15	WM10040-ND	1.22	1.15	1.05	.94	21039-0231
10	11.15	WM10041-ND	1.28	1.21	1.10	.99	21039-0253
12	13.15	WM10042-ND	1.36	1.29	1.17	1.05	21039-0275
14	15.15	WM10043-ND	1.42	1.35	1.23	1.10	21039-0297
16	17.15	WM10044-ND	1.49	1.41	1.29	1.16	21039-0319
18	19.15	WM10045-ND	1.58	1.49	1.36	1.22	21039-0341
20	21.15	WM10046-ND	1.69	1.60	1.46	1.31	21039-0363
22	23.15	WM10047-ND	1.72	1.62	1.48	1.33	21039-0385
24	25.15	WM10048-ND	1.88	1.78	1.62	1.45	21039-0407
26	27.15	WM10049-ND	1.90	1.80	1.63	1.47	21039-0429
28	29.15	WM10050-ND	1.93	1.82	1.66	1.49	21039-0451
30	31.15	WM10051-ND	1.94	1.84	1.67	1.50	21039-0473

No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each	Molex Part No.			
			1	10	100	250	
<b>6" (15.24cm) Unshielded Flat Flex Cable</b>							
6	7.15	WM10052-ND	1.17	1.11	1.01	.98	21039-0211
8	9.15	WM10053-ND	1.26	1.19	1.09	.98	21039-0233
10	11.15	WM10054-ND	1.33	1.26	1.15	1.03	21039-0255
12	13.15	WM10055-ND	1.42	1.35	1.23	1.10	21039-0277
14	15.15	WM10056-ND	1.50	1.42	1.29	1.16	21039-0299
16	17.15	WM10057-ND	1.58	1.49	1.36	1.22	21039-0321
18	19.15	WM10058-ND	1.68	1.59	1.44	1.30	21039-0343
20	21.15	WM10059-ND	1.81	1.71	1.56	1.40	21039-0365
22	23.15	WM10060-ND	1.84	1.74	1.58	1.42	21039-0387
24	25.15	WM10061-ND	2.03	1.91	1.74	1.57	21039-0409
26	27.15	WM10062-ND	2.05	1.94	1.76	1.59	21039-0431
28	29.15	WM10063-ND	2.08	1.97	1.79	1.61	21039-0453
30	31.15	WM10064-ND	2.11	1.99	1.81	1.63	21039-0475
<b>8" (20.32cm) Unshielded Flat Flex Cable</b>							
6	7.15	WM10065-ND	.99	.94	.86	.83	21039-0215
8	9.15	WM10066-ND	1.35	1.28	1.16	1.05	21039-0237
10	11.15	WM10067-ND	1.44	1.36	1.24	1.12	21039-0259
12	13.15	WM10068-ND	1.56	1.47	1.34	1.21	21039-0281
14	15.15	WM10069-ND	1.65	1.56	1.42	1.28	21039-0303
16	17.15	WM10070-ND	1.75	1.66	1.51	1.36	21039-0325
18	19.15	WM10071-ND	1.88	1.78	1.62	1.46	21039-0347
20	21.15	WM10072-ND	2.05	1.94	1.76	1.59	21039-0369
22	23.15	WM10073-ND	2.09	1.97	1.79	1.62	21039-0391
24	25.15	WM10074-ND	2.33	2.20	2.00	1.80	21039-0413
26	27.15	WM10075-ND	2.36	2.23	2.03	1.82	21039-0435
28	29.15	WM10076-ND	2.39	2.26	2.05	1.85	21039-0457
30	31.15	WM10077-ND	4.27	3.57	2.61	2.22	21039-0479
<b>10" (25.40cm) Unshielded Flat Flex Cable</b>							
6	7.15	WM10078-ND	1.34	1.26	1.15	1.04	21039-0219
8	9.15	WM10079-ND	1.45	1.37	1.25	1.12	21039-0241
10	11.15	WM10080-ND	1.56	1.48	1.34	1.21	21039-0263
12	13.15	WM10081-ND	1.70	1.61	1.46	1.32	21039-0285
14	15.15	WM10082-ND	1.81	1.71	1.56	1.40	21039-0307
16	17.15	WM10083-ND	1.94	1.83	1.67	1.50	21039-0329
18	19.15	WM10084-ND	2.10	1.98	1.80	1.62	21039-0351
20	21.15	WM10085-ND	2.30	2.18	1.98	1.78	21039-0373
22	23.15	WM10086-ND	2.34	2.22	2.01	1.81	21039-0395
24	25.15	WM10087-ND	2.64	2.49	2.27	2.04	21039-0417
26	27.15	WM10088-ND	2.68	2.53	2.30	2.07	21039-0439
28	29.15	WM10089-ND	2.72	2.57	2.33	2.10	21039-0461
30	31.15	WM10090-ND	2.76	2.60	2.37	2.13	21039-0483
<b>12" (30.48cm) Unshielded Flat Flex Cable</b>							
6	7.15	WM10091-ND	1.42	1.34	1.22	1.10	21039-0221
8	9.15	WM10092-ND	1.55	1.47	1.33	1.20	21039-0243
10	11.15	WM10093-ND	1.68	1.59	1.44	1.30	21039-0265
12	13.15	WM10094-ND	1.84	1.74	1.59	1.43	21039-0287
14	15.15	WM10095-ND	1.94	1.83	1.67	1.62	21039-0309
16	17.15	WM10096-ND	2.13	2.01	1.83	1.65	21039-0331
18	19.15	WM10097-ND	2.31	2.19	1.99	1.79	21039-0353
20	21.15	WM10098-ND	2.56	2.42	2.20	1.98	21039-0375
24	25.15	WM10100-ND	2.95	2.79	2.54	2.28	21039-0419
26	27.15	WM10101-ND	2.95	2.78	2.54	2.46	21039-0441
28	29.15	WM10102-ND	3.04	2.87	2.61	2.35	21039-0463
30	31.15	WM10103-ND	3.09	2.92	2.66	2.39	21039-0485

◆ RoHS Compliant



## 0.3 mm Pitch One-Touch FFC/FPC Connectors



**Features:** 0.3mm pitch low profile connector for FPC, compatible to most advanced information communication devices light in weight and small in size such as mobile PC, PDA, Liquid Crystal Display and mobile phones.

**FB3 Series: Specifications:** • Contact Resistance: 20mΩ maximum • Withstanding Voltage: AC250Vr.m.s. per 1 minute • Operating Temperature: -40°C ~ 85°C • Rated Voltage: AC, DC 50V per terminal • Rated Current: AC, DC 0.35A per terminal • Insulation Resistance: 100MΩ minimum • Applicable FPC: 0.3mm pitch zigzag thickness 0.2 ~ +/-0.03 with lining **Materials:** • Actuator: Synthetic resin, UL94V-0 • Base Insulator: Synthetic resin, UL94V-0 • Contact: Copper Alloy, Gold plating over Nickel on contact area

**FB6 Series: Specifications:** • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VDC per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.35A per position • Rated Voltage: AC, DC 50V per position • Insulation Resistance: 100MΩ minimum • Applicable FPC: 0.3mm pitch thickness 0.15±0.03 with lining **Materials:** • Actuator: Synthetic resin, UL94V-0 • Base Insulator: Synthetic resin, UL94V-0 • Contact: Copper Alloy, Gold plating on contact area

**FB8 Series: Specifications:** • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VDC per minute • Operating Temperature: -40°C ~ 85°C • Rated Current: 0.35A per position • Rated Voltage: AC, DC 50V per position • Insulation Resistance: 100MΩ minimum • Applicable FPC: 0.3mm pitch thickness 0.2±0.03 with lining **Materials:** • Actuator: Synthetic resin, UL94V-0 • Base Insulator: Synthetic resin, UL94V-0 • Contact: Copper Alloy, Gold plating on contact area

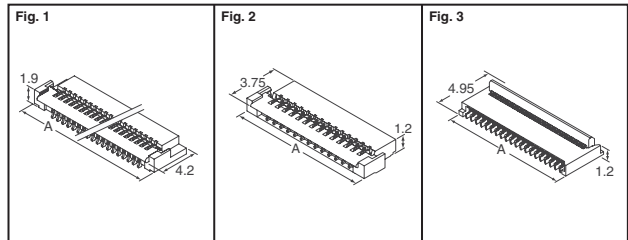


Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each	JAE Part No.		
				25	100		
<b>FB3 Series</b>							
1	25	10.5	670-1482-ND	6.90	4.56	4.14	FB3S025C11
	45	16.5	670-1483-ND	9.07	6.45	5.85	FB3S045C11
	61	21.3	670-1484-ND	14.54	10.74	10.05	FB3S061C11
<b>FB6 Series</b>							
2	15	6.9	670-1485-ND	2.03	1.25	1.15	FB6S015JA1
	17	7.5	670-1486-ND	2.16	1.33	1.23	FB6S017JA1
	21	8.7	670-1487-ND	2.05	1.35	1.20	FB6S021JA1
	25	9.9	670-1488-ND	2.18	1.43	1.27	FB6S025JA1
	27	10.5	670-1489-ND	2.32	1.52	1.35	FB6S027JA1
	29	11.1	670-1490-ND	2.40	1.57	1.40	FB6S029JA1
	33	12.3	670-1491-ND	2.64	1.73	1.54	FB6S033JA1

Fig.	No. of Positions	Dim. A (mm)	Digi-Key Part No.	Price Each	JAE Part No.		
				25	100		
2	39	14.1	670-1492-ND	8.02	5.30	4.82	FB6S039JA1
	45	15.9	670-1493-ND	2.87	1.89	1.68	FB6S045JA1
	51	17.7	670-1494-ND	3.16	2.07	1.84	FB6S051JA1
	53	18.3	670-1495-ND	3.14	2.06	1.83	FB6S053JA1
	57	19.5	670-1496-ND	9.23	6.57	5.95	FB6S057JA1
	59	20.1	670-1497-ND	3.19	2.10	1.86	FB6S059JA1
<b>FB8 Series</b>							
3	23	8.2	670-1498-ND	2.32			