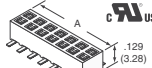


3M 2mm Surface Mount Thru-Board Sockets



Features: • Reflow solder compatible • End stackable feature
Insulator Material: Glass filled PCT • **Flammability:** UL94V-0
Color: Black • **Contact material:** Copper Alloy • **Underplating:** 50 - 150µm Nickel • **Wiping area:** 30µm gold
Solder Tails: 300µm Matte Tin
Electrical Specifications: • **Current Rating:** 1 Amp
Environmental Specifications: • **Operating Temperature:** -55°C - 105°C

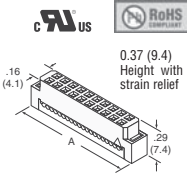


No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†	3M Part No.
			100	500	1000		
4	0.156 (3.96)	3M5410-ND	.97	.74	.67	—	153204-2000-RB
4	0.156 (3.96)	3M5635CT-ND	1.18	.90	—	800	647.82 153204-2000-RB-WA
6	0.231 (5.87)	3M5411CT-ND	1.21	.92	—	800	664.44 153206-2000-RB-WA
14	0.546 (13.87)	3M5414CT-ND	1.42	1.08	—	800	780.71 153214-2000-RB-WB
16	0.625 (15.88)	3M5416CT-ND	1.63	1.24	—	800	896.99 153216-2000-RB-WB
24	0.940 (23.88)	3M5420CT-ND	1.84	1.40	—	800	1013.26 153224-2000-RB-WD
26	1.019 (25.88)	3M5422CT-ND	2.03	1.54	—	800	1112.93 153226-2000-RB-WD
46	1.806 (45.87)	3M5430CT-ND	2.93	2.23	—	—	153246-2000-RB-WF

† For Tape and Reel part number, change CT-ND to TR-ND. ◊ Bulk

2mm Wiremount Sockets

2mm Wiremount Socket - 1mm Pitch Cable: **Features:** • Industry standard compatible • **Mates with 2.0mm x 2.0mm grid pin strips** • **Low profile** • **Preassembled covers** • **Available with and without strain relief**
Physical Specifications: • **Insulation Material:** Glass Filled Polyester (PBT), **Flammability:** UL94 V-0 • **Color:** Gray • **Contact Material:** Copper Alloy • **Contact Plating:** Underplate and U-slot: 50-150µm Nickel, QQ-N-290, Class 2 • **Wiping area:** Gold Mil-G-45204, Type II, Grade C
Electrical Specifications: • **Current Rating:** 1 Amp • **Insulation Resistance:** >1x10⁹Ω at 500VDC • **Withstanding Voltage:** 1000Vrms at Sea Level
Environmental Specifications: • **Operating Temperature Rating:** -55°C - 105°C
Rating: UL File No. E68080



1.0mm Round Conductor Flat Cable - 28AWG Stranded, PVC: **Physical Specifications:** • **Insulation Material:** Polyvinyl Chloride (PVC) • **Color:** Gray • **Marking:** Red Edge • **Conductors:** 28AWG, 7 x 36 Tinned Stranded Copper
Electrical Specifications: • **Voltage Rating:** 300V
Environmental Specifications: • **Operating Temperature Rating:** -20°C - 105°C • **Flammability Rating:** UL: VW-1, CSA: FT1
Rating: UL File No. E42769, Style 2651 CSA File No. LL 53649 (optional)

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing			3M Part No.
			1	100	500	
IDC Sockets Gold						
10	.59 (15.0)	MSA10A-ND	2.16	164.03	726.73	152210-0100-GB
12	.67 (17.0)	MSA12A-ND	2.19	166.33	752.68	152212-0100-GB
20	.99 (25.1)	MSA20A-ND	3.02	229.42	1016.40	152220-0100-GB
26	1.22 (31.0)	MSA26A-ND	2.88	219.09	970.66	152226-0100-GB
40	1.77 (45.0)	MSA40A-ND	3.02	229.42	1016.40	152240-0100-GB
44	1.93 (49.0)	MSA44A-ND	3.09	235.15	1064.13	152244-0100-GB
50	2.17 (55.0)	MSA50A-ND	3.16	239.74	1084.90	152250-0100-GB
IDC Sockets Gold with Strain Relief						
10	.59 (15.0)	MSE10A-ND	2.50	190.42	861.69	152210-0103-GB
12	.67 (17.0)	MSE12A-ND	2.64	200.74	908.41	152212-0103-GB
20	.99 (25.1)	MSE20A-ND	2.61	198.44	879.19	152220-0103-GB
26	1.22 (31.0)	MSE26A-ND	3.26	247.77	1097.71	152226-0103-GB
40	1.77 (45.0)	MSE40A-ND	3.33	252.36	1118.04	122240-0103-GB
44	1.93 (49.0)	MSE44A-ND	3.48	264.98	1199.10	152244-0103-GB
50	2.17 (55.0)	MSE50A-ND	3.55	269.56	1219.86	152250-0103-GB
IDC Sockets Gold, with Center Polarizing Bump						
10	.59 (15.0)	MTA10A-ND	2.16	164.03	726.73	152210-0110-GB
12	.67 (17.0)	MTA12A-ND	2.19	166.33	736.89	152212-0110-GB
20	.99 (25.1)	MTA20A-ND	2.40	182.39	808.04	152220-0110-GB
26	1.22 (31.0)	MTA26A-ND	2.88	219.09	970.66	152226-0110-GB
40	1.77 (45.0)	MTA40A-ND	2.96	224.83	996.07	152240-0110-GB
44	1.93 (49.0)	MTA44A-ND	3.09	235.15	1041.81	152244-0110-GB
50	2.17 (55.0)	MTA50A-ND	3.16	239.74	1062.14	152250-0110-GB
IDC Sockets Gold, with Center Polarizing Bump, with Strain Relief						
10	.59 (15.0)	MTE10A-ND	2.50	190.42	843.61	152210-0113-GB
12	.67 (17.0)	MTE12A-ND	2.64	200.74	889.35	152212-0113-GB
20	.99 (25.1)	MTE20A-ND	3.70	281.03	1245.09	152220-0113-GB
26	1.22 (31.0)	MTE26A-ND	3.26	247.77	1097.71	152226-0113-GB
40	1.77 (45.0)	MTE40A-ND	4.33	329.21	1458.53	152240-0113-GB
44	1.93 (49.0)	MTE44A-ND	3.48	264.98	1173.94	152244-0113-GB
50	2.17 (55.0)	MTE50A-ND	3.55	269.56	1194.27	152250-0113-GB
Strain Reliefs						
10	—	MMMR10-ND	.38	28.68	129.77	3448-152210
12	—	MMMR12-ND	.60	45.88	207.64	3448-152212
20	—	MMMR20-ND	.39	29.82	134.96	3448-152220
26	—	MMMR26-ND	.74	56.21	254.35	3448-152226
40	—	MMMR40-ND	.68	51.62	233.59	3448-152240
44	—	MMMR44-ND	.24	18.35	83.05	3448-152244
50	—	MMMR50-ND	.78	59.65	269.93	3448-152250
Keying plug (Strip of 10)	—	MMMR01-ND	1.51	114.71	519.09	3435-152200

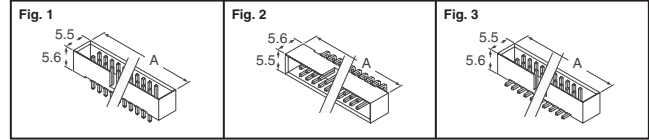
100m reel quantity may contain splices. Splice position will be marked on the reel.

No. of Pos.	Digi-Key Part No.	(NOTE: "X" in Part No. Represents No. of Meters)				3M Part No.	
		5	10	25	50		
Ribbon Cable Tray (1mm Pitch)							
10	MC10L-X-ND	5.65	10.50	23.41	40.37	64.58	3625/10 100M
12	MC12L-X-ND	6.78	12.60	28.10	48.45	77.51	3625/12 100M
44	MC44L-X-ND	24.87	46.18	103.02	177.62	284.20	3625/44 100M
50	MC50L-X-ND	28.26	52.48	117.07	201.85	322.95	3625/50 100M

2mm Headers



Physical Specifications: • **Insulation Material:** High Temperature Thermoplastic • **Flammability:** UL 94V-0 • **Color:** Black
Underplating: 1.25-2.5µm (100µ") Nickel • **Wiping Area:** 0.25µm (10µ") Gold • **Solder Tail Area:** 1-3µm (40-118µ") Matte Tin
Electrical Specifications: • **Current Rating:** 1 Amp • **Withstanding Voltage:** 1000VDC
Environmental Specifications: • **Temperature Range:** -40°C - 105°C • **Processing Temperature:** Max: 260°C (Profile per J-STD-020C)
 Dimensions: mm

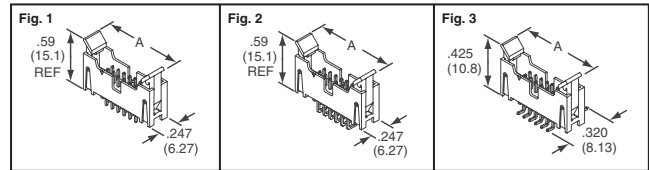


No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Price Each			3M Part No.
			1	100	500	
Fig. 1 — Vertical Thru-Hole						
10	0.677 (17.2)	3M6474-ND	1.24	.95	.86	957210-6002-AR
12	0.756 (19.2)	3M6475-ND	1.27	.97	.88	957212-6002-AR
20	1.07 (27.2)	3M6476-ND	1.44	1.09	.99	957220-6002-AR
26	1.31 (33.2)	3M6477-ND	1.71	1.30	1.18	957226-6002-AR
40	1.86 (47.2)	3M6478-ND	2.61	1.99	1.80	957240-6002-AR
44	2.02 (51.2)	3M6479-ND	2.87	2.18	1.98	957244-6002-AR
50	2.25 (57.2)	3M6480-ND	3.26	2.48	2.25	957250-6002-AR
Fig. 2 — Right Angle Thru-Hole						
10	0.677 (17.2)	3M6481-ND	1.36	1.04	.94	957210-5002-AR
12	0.756 (19.2)	3M6482-ND	1.40	1.07	.97	957212-5002-AR
20	1.07 (27.2)	3M6483-ND	1.57	1.20	1.08	957220-5002-AR
26	1.31 (33.2)	3M6484-ND	1.87	1.43	1.29	957226-5002-AR
40	1.86 (47.2)	3M6485-ND	2.87	2.18	1.98	957240-5002-AR
44	2.02 (51.2)	3M6486-ND	3.16	2.40	2.17	957244-5002-AR
50	2.25 (57.2)	3M6487-ND	3.58	2.72	2.47	957250-5002-AR
Fig. 3 — Vertical Surface Mount						
10	0.677 (17.2)	3M6488-ND	1.50	1.14	1.03	957210-2000-AR-TP
12	0.756 (19.2)	3M6489-ND	1.52	1.16	1.05	957212-2000-AR-TP
20	1.07 (27.2)	3M6490-ND	1.72	1.31	1.19	957220-2000-AR-TP
26	1.31 (33.2)	3M6491-ND	2.04	1.55	1.41	957226-2000-AR-TP
40	1.86 (47.2)	3M6492-ND	3.13	2.38	2.15	957240-2000-AR-TP
44	2.02 (51.2)	3M6493-ND	3.44	2.62	2.37	957244-2000-AR-TP
50	2.25 (57.2)	3M6494-ND	3.91	2.98	2.69	957250-2000-AR-TP

2mm Latch / Eject Headers



Features: • **Latch/Eject mechanism maintains a secure connection** • **Roll pins retain latches to body in shipping and high vibration environments** • **Ejector helps make removal of assemblies easy** • **Latch design helps resist breakage during eject** • **High temperature insulators suitable for lead free processing and meet JEDEC J-STD-020C**
Specifications: • **Insulator Material:** Glass filled Polyester (PCT) • **Flammability:** UL94V-0 • **Contact Material:** Copper Alloy • **Underplating:** 50µm (1.27µm) Nickel • **Wiping area:** 30µm (0.76µm) Gold • **Solder Tails:** 200µm (5.0µm) Matte Tin
Color: Black • **Current Rating:** 1 Amp • **Temperature Rating:** -55°C - 105°C
 Dimensions: Inches (mm)



No. of Contacts	Dim. A Inch (mm)	Solder Tail Length Inch (mm)	Digi-Key Part No.	Price Each			3M Part No.
				1	100	500	
Fig. 1 — Vertical Thru-Hole							
10	.83 (21.1)	.112 (2.84)	3M5082-ND	3.34	2.54	2.30	155210-6302-RB
10	.83 (21.1)	.155 (3.94)	3M5083-ND	3.34	2.54	2.30	155210-6303-RB
12	.91 (23.1)	.112 (2.84)	3M5087-ND	2.81	2.14	1.94	155212-6302-RB
12	.91 (23.1)	.155 (3.94)	3M5088-ND	2.81	2.14	1.94	155212-6303-RB
20	1.22 (31.09)	.112 (2.84)	3M5092-ND	3.86	2.94	2.66	155220-6302-RB
20	1.22 (31.09)	.155 (3.94)	3M5093-ND	3.86	2.94	2.66	155220-6303-RB
26	1.46 (37.1)	.112 (2.84)	3M5097-ND	4.56	3.47	3.14	155226-6302-RB
26	1.46 (37.1)	.155 (3.94)	3M5098-ND	4.56	3.47	3.14	155226-6303-RB
40	2.01 (51.1)	.112 (2.84)	3M5102-ND	7.01	5.33	4.82	155240-6302-RB
40	2.01 (51.1)	.155 (3.94)	3M5103-ND	7.01	5.33	4.82	155240-6303-RB
44	2.17 (55.09)	.112 (2.84)	3M5107-ND	7.70	5.86	5.30	155244-6302-RB
44	2.17 (55.09)	.155 (3.94)	3M5108-ND	7.70	5.86	5.30	155244-6303-RB
50	2.41 (61.09)	.112 (2.84)	3M5112-ND	8.76	6.66	6.03	155250-6302-RB
50	2.41 (61.09)	.155 (3.94)	3M5113-ND	8.76	6.66	6.03	155250-6303-RB
Fig. 2 — Right Angle							
10	.83 (21.1)	.112 (2.84)	3M5080-ND	3.67	2.79	2.53	155210-5302-RB
10	.83 (21.1)	.155 (3.94)	3M5081-ND	3.67	2.79	2.53	155210-5303-RB
12	.91 (23.1)	.112 (2.84)	3M5085-ND	3.01	2.29	2.07	155212-5302-RB
12	.91 (23.1)	.155 (3.94)	3M5086-ND	3.01	2.29	2.07	155212-5303-RB
20	1.22 (31.09)	.112 (2.84)	3M5090-ND	4.26	3.24	2.93	155220-5302-RB
20	1.22 (31.09)	.155 (3.94)	3M5091-ND	4.26	3.24	2.93	155220-5303-RB
26	1.46 (37.1)	.112 (2.84)	3M5095-ND	5.03	3.82	3.46	155226-5302-RB
26	1.46 (37.1)	.155 (3.94)	3M5096-ND	5.03	3.82	3.46	155226-5303-RB
40	2.01 (51.1)	.112 (2.84)	3M5100-ND	7.73	5.88	5.32	155240-5302-RB
40	2.01 (51.1)	.155 (3.94)	3M5101-ND	7.73	5.88	5.32	155240-5303-RB
44	2.17 (55.09)	.112 (2.84)	3M5105-ND	8.50	6.46	5.85	155244-5302-RB
44	2.17 (55.09)	.155 (3.94)	3M5106-ND	8.50	6.46	5.85	155244-5303-RB
50	2.41 (61.09)	.112 (2.84)	3M5110-ND	9.66	7.35	6.65	155250-5302-RB
50	2.41 (61.09)	.155 (3.94)	3M5111-ND	9.66	7.35	6.65	155250-5303-RB
Fig. 3 — Vertical Surface Mount							
10	.83 (21.1)	—	3M5079-ND	4.33	3.30	2.98	155210-2300-RB
12	.91 (23.1)	—	3M5084-ND	3.56	2.71	2.46	155212-2300-RB
20	1.22 (31.09)	—	3M5089-ND	5.02	3.81	3.45	155220-2300-RB
26	1.46 (37.1)	—	3M5094-ND	5.93	4.51	4.08	155226-2300-RB
40	2.01 (51.1)	—	3M5099-ND	9.12	6.93	6.28	155240-2300-RB
44	2.17 (55.09)	—	3M510				