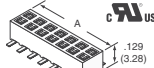


3M 2mm Surface Mount Thru-Board Sockets



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 Reelf Qty.	3M Part No.
			1	100	500		
4	0.156 (3.96)	3M5410-ND	1.33	1.02	.92	—	153204-2000-RB
4	0.156 (3.96)	3M5635CT-ND	1.12	.86	—	800	892.32 153204-2000-RB-WA
6	0.231 (5.87)	3M5411CT-ND	1.16	.89	—	800	915.20 153206-2000-RB-WA
14	0.546 (13.87)	3M5414CT-ND	1.35	1.03	—	800	1075.36 153214-2000-RB-WB
16	0.625 (15.88)	3M5416CT-ND	1.56	1.19	—	800	1235.52 153216-2000-RB-WB
24	0.940 (23.88)	3M5420CT-ND	1.77	1.35	—	800	1395.68 153224-2000-RB-WD
26	1.019 (25.88)	3M5422CT-ND	1.93	1.47	—	800	1532.96 153226-2000-RB-WD
46	1.806 (45.87)	3M5430CT-ND	4.04	3.07	—	—	153246-2000-RB-WF

Thru-Board Sockets with Board Locator Post

No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reelf Qty.	3M Part No.
			1	100	500		
8	0.310 (7.87)	3M5412-ND	1.39	1.06	.96	—	153208-2020-RB
10	0.389 (9.88)	3M5413-ND	1.54	1.17	1.06	—	153210-2020-RB
14	0.546 (13.87)	3M5415-ND	1.77	1.35	1.22	—	153214-2020-RB
16	0.625 (15.88)	3M5417CT-ND	1.35	1.03	—	800	1075.36 153216-2020-RB-WB
20	0.782 (19.86)	3M5418CT-ND	1.66	1.27	—	800	1315.60 153220-2020-RB-WC
22	0.861 (21.87)	3M5419CT-ND	1.66	1.27	—	800	1315.60 153222-2020-RB-WD
24	0.940 (23.88)	3M5421-ND	2.25	1.71	1.55	—	153224-2020-RB
26	1.019 (25.88)	3M5423CT-ND	1.93	1.47	—	800	1532.96 153226-2020-RB-WD
30	1.176 (29.87)	3M5424-ND	3.00	2.28	2.06	—	153230-2020-RB
36	1.412 (35.86)	3M5426-ND	3.04	2.31	2.09	—	153236-2020-RB
40	1.570 (39.88)	3M5427-ND	3.33	2.53	2.29	—	153240-2020-RB
44	1.727 (43.87)	3M5429-ND	3.60	2.74	2.48	—	153244-2020-RB
50	1.964 (49.89)	3M5431CT-ND	3.45	2.63	—	700	1901.90 153250-2020-RB-WF
56	2.200 (55.88)	3M5432-ND	4.62	3.51	3.18	—	153256-2020-RB
60	2.357 (59.87)	3M5433-ND	4.91	3.73	3.38	—	153260-2020-RB

† 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.	Price			3M Part No.
			1	100	500	
IDC Sockets Gold						
10	.59 (15.0)	MSA10A-ND	2.97	225.94	1001.00	152210-0100-GB
12	.67 (17.0)	MSA12A-ND	3.02	229.10	1036.75	152212-0100-GB
20	.99 (25.1)	MSA20A-ND	4.16	316.00	1400.00	152220-0100-GB
26	1.22 (31.0)	MSA26A-ND	3.97	301.78	1337.00	152226-0100-GB
40	1.77 (45.0)	MSA40A-ND	4.16	316.00	1400.00	152240-0100-GB
44	1.93 (49.0)	MSA44A-ND	4.26	323.90	1465.75	152244-0100-GB
50	2.17 (55.0)	MSA50A-ND	4.35	330.22	1494.35	152250-0100-GB
IDC Sockets Gold with Strain Relief						
10	.59 (15.0)	MSE10A-ND	3.45	262.28	1186.90	152210-0103-GB
12	.67 (17.0)	MSE12A-ND	3.64	276.50	1251.25	152212-0103-GB
20	.99 (25.1)	MSE20A-ND	3.60	273.34	1211.00	152220-0103-GB
26	1.22 (31.0)	MSE26A-ND	4.49	341.28	1512.00	152226-0103-GB
40	1.77 (45.0)	MSE40A-ND	4.58	347.60	1540.00	152240-0103-GB
44	1.93 (49.0)	MSE44A-ND	4.80	364.98	1651.65	152244-0103-GB
50	2.17 (55.0)	MSE50A-ND	4.89	371.30	1680.25	152250-0103-GB
IDC Sockets Gold, with Center Polarizing Bump						
10	.59 (15.0)	MTA10A-ND	2.97	225.94	1001.00	152210-0110-GB
12	.67 (17.0)	MTA12A-ND	3.02	229.10	1015.00	152212-0110-GB
20	.99 (25.1)	MTA20A-ND	3.31	251.22	1113.00	152220-0110-GB
26	1.22 (31.0)	MTA26A-ND	3.97	301.78	1337.00	152226-0110-GB
40	1.77 (45.0)	MTA40A-ND	4.08	309.68	1372.00	152240-0110-GB
44	1.93 (49.0)	MTA44A-ND	4.26	323.90	1435.00	152244-0110-GB
50	2.17 (55.0)	MTA50A-ND	4.35	330.22	1463.00	152250-0110-GB
IDC Sockets Gold, with Center Polarizing Bump, with Strain Relief						
10	.59 (15.0)	MTE10A-ND	3.45	262.28	1182.00	152210-0113-GB
12	.67 (17.0)	MTE12A-ND	3.64	276.50	1225.00	152212-0113-GB
20	.99 (25.1)	MTE20A-ND	5.10	387.10	1715.00	152220-0113-GB
26	1.22 (31.0)	MTE26A-ND	4.49	341.28	1512.00	152226-0113-GB
40	1.77 (45.0)	MTE40A-ND	5.97	453.46	2009.00	152240-0113-GB
44	1.93 (49.0)	MTE44A-ND	4.80	364.98	1617.00	152244-0113-GB
50	2.17 (55.0)	MTE50A-ND	4.89	371.30	1645.00	152250-0113-GB
Strain Reliefs						
10	—	MMMR10-ND	.52	39.50	178.75	3448-152210
12	—	MMMR12-ND	.63	63.20	286.00	3448-152212
20	—	MMMR20-ND	.54	41.08	185.90	3448-152220
26	—	MMMR26-ND	1.02	77.42	350.35	3448-152226
40	—	MMMR40-ND	.94	71.10	321.75	3448-152240
44	—	MMMR44-ND	.33	25.28	114.40	3448-152244
50	—	MMMR50-ND	1.08	82.16	371.80	3448-152250
Keying plug (Strip of 10) MMR01-ND 2.08 158.00 715.00 3435-152200						

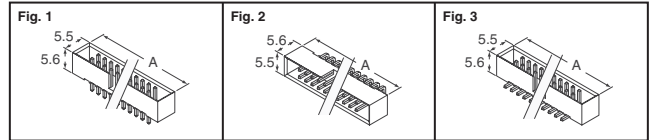
100m reel quantity may contain splices. Splice position will be marked on the reel.

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 Gray (1mm Pitch)							
10	MC10L-X-ND	7.78	14.46	32.25	55.60	88.96	3625/10 100M
12	MC12L-X-ND	9.34	17.35	38.70	66.73	106.76	3625/12 100M
44	MC44L-X-ND	34.25	63.61	141.90	244.66	391.46	3625/44 100M
50	MC50L-X-ND	38.92	72.29	161.25	278.03	444.84	3625/50 100M

NEW! 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

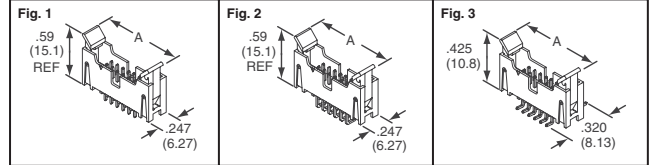


No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Price Each			3M Part No.
			1	100	500	
Fig. 1 — Vertical Thru-Hole						
10	0.677 (17.2)	3M6474-ND	1.71	1.30	1.18	957210-6002-AR
12	0.756 (19.2)	3M6475-ND	1.75	1.33	1.21	957212-6002-AR
20	1.07 (27.2)	3M6476-ND	1.98	1.51	1.36	957220-6002-AR
26	1.31 (33.2)	3M6477-ND	2.35	1.79	1.62	957226-6002-AR
40	1.86 (47.2)	3M6478-ND	3.60	2.74	2.48	957240-6002-AR
44	2.02 (51.2)	3M6479-ND	3.95	3.01	2.72	957244-6002-AR
50	2.25 (57.2)	3M6480-ND	4.49	3.42	3.09	957250-6002-AR
Fig. 2 — Right Angle Thru-Hole						
10	0.677 (17.2)	3M6481-ND	1.87	1.43	1.29	957210-5002-AR
12	0.756 (19.2)	3M6482-ND	1.93	1.47	1.33	957212-5002-AR
20	1.07 (27.2)	3M6483-ND	2.16	1.65	1.49	957220-5002-AR
26	1.31 (33.2)	3M6484-ND	2.58	1.96	1.78	957226-5002-AR
40	1.86 (47.2)	3M6485-ND	3.95	3.01	2.72	957240-5002-AR
44	2.02 (51.2)	3M6486-ND	4.35	3.31	2.99	957244-5002-AR
50	2.25 (57.2)	3M6487-ND	4.93	3.75	3.39	957250-5002-AR
Fig. 3 — Vertical Surface Mount						
10	0.677 (17.2)	3M6488-ND	2.06	1.57	1.42	957210-2000-AR-TP
12	0.756 (19.2)	3M6489-ND	2.10	1.60	1.45	957212-2000-AR-TP
20	1.07 (27.2)	3M6490-ND	2.37	1.81	1.64	957220-2000-AR-TP
26	1.31 (33.2)	3M6491-ND	2.81	2.14	1.94	957226-2000-AR-TP
40	1.86 (47.2)	3M6492-ND	4.31	3.28	2.97	957240-2000-AR-TP
44	2.02 (51.2)	3M6493-ND	4.74	3.61	3.27	957244-2000-AR-TP
50	2.25 (57.2)	3M6494-ND	5.39	4.10	3.71	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
Physical Specifications: • **Insulation 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	4.60	3.50	3.17	155210-6302-RB
10	.83 (21.1)	.155 (3.94)	3M5083-ND	4.60	3.50	3.17	155210-6303-RB
12	.91 (23.1)	.112 (2.84)	3M5087-ND	3.87	2.94	2.66	155212-6302-RB
12	.91 (23.1)	.155 (3.94)	3M5088-ND	3.87	2.94	2.66	155212-6303-RB
20	1.22 (31.09)	.112 (2.84)	3M5092-ND	5.32	4.05	3.67	155220-6302-RB
20	1.22 (31.09)	.155 (3.94)	3M5093-ND	5.32	4.05	3.67	155220-6303-RB
26	1.46 (37.1)	.112 (2.84)	3M5097-ND	6.28	4.78	4.32	155226-6302-RB
26	1.46 (37.1)	.155 (3.94)	3M5098-ND	6.28	4.78	4.32	155226-6303-RB
40	2.01 (51.1)	.112 (2.84)	3M5102-ND	9.65	7.34	6.64	155240-6302-RB
40	2.01 (51.1)	.155 (3.94)	3M5103-ND	9.65	7.34	6.64	155240-6303-RB
44	2.17 (55.09)	.112 (2.84)	3M5107-ND	10.61	8.06	7.30	155244-6302-RB
44	2.17 (55.09)	.155 (3.94)	3M5108-ND	10.61	8.06	7.30	155244-6303-RB
50	2.41 (61.09)	.112 (2.84)	3M5112-ND	12.06	9.17	8.30	155250-6302-RB
50	2.41 (61.09)	.155 (3.94)	3M5113-ND	12.06	9.17	8.30	155250-6303-RB
Fig. 2 — Right Angle							
10	.83 (21.1)	.112 (2.84)	3M5080-ND	5.05	3.84	3.48	155210-5302-RB
10	.83 (21.1)	.155 (3.94)	3M5081-ND	5.05	3.84	3.48	155210-5303-RB
12	.91 (23.1)	.112 (2.84)	3M5085-ND	4.14	3.15		