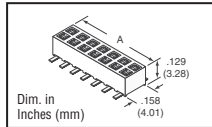


# 3M 2mm Surface Mount Thru-Board Sockets



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

A

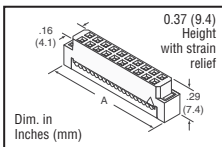
No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel†		3M Part No.
			1	100	500	Qty.	Pricing	
4	0.156 (3.96)	3M5410-ND	.92	.70	.63	—	—	153204-2000-RB
4	0.156 (3.96)	3M5635CT-ND	1.12	.86	—	800	743.60	153204-2000-RB-WA
6	0.231 (5.87)	3M5411CT-ND	1.16	.89	—	800	640.64	153206-2000-RB-WA
14	0.546 (13.87)	3M5414CT-ND	1.35	1.03	—	800	743.60	153214-2000-RB-WB
16	0.625 (15.88)	3M5416CT-ND	1.56	1.19	—	800	858.00	153216-2000-RB-WB
24	0.940 (23.88)	3M5420CT-ND	1.77	1.35	—	800	972.40	153224-2000-RB-WD
26	1.019 (25.88)	3M5422CT-ND	1.93	1.47	—	800	1063.92	153226-2000-RB-WD
46	1.806 (45.87)	3M5430CT-ND	3.54	2.69	—	800	1853.28	153246-2000-RB-WF

### Thru-Board Sockets with Board Locator Post

8	0.310 (7.87)	3M5412-ND	.98	.75	.68	—	—	153208-2020-RB
10	0.389 (9.88)	3M5413-ND	1.08	.83	.75	—	—	153210-2020-RB
14	0.546 (13.87)	3M5415-ND	1.23	.94	.85	—	—	153214-2020-RB
16	0.625 (15.88)	3M5417CT-ND	1.35	1.03	—	800	743.60	153216-2020-RB-WB
20	0.782 (19.86)	3M5418CT-ND	1.66	1.27	—	800	915.20	153220-2020-RB-WC
22	0.861 (21.87)	3M5419CT-ND	1.66	1.27	—	800	915.20	153222-2020-RB-WD
24	0.940 (23.88)	3M5421-ND	1.56	1.19	1.08	—	—	153224-2020-RB
26	1.019 (25.88)	3M5423CT-ND	1.93	1.47	—	800	1063.92	153226-2020-RB-WD
30	1.176 (29.87)	3M5424-ND	2.08	1.58	1.43	—	—	153230-2020-RB
32	1.255 (31.88)	3M5425-ND	2.20	1.68	1.52	—	—	153232-2020-RB
36	1.412 (35.86)	3M5426-ND	2.54	1.93	1.75	—	—	153236-2020-RB
40	1.570 (39.88)	3M5427-ND	2.77	2.11	1.91	—	—	153240-2020-RB
42	1.649 (41.88)	3M5428-ND	2.93	2.23	2.02	—	—	153242-2020-RB
44	1.727 (43.87)	3M5429-ND	3.00	2.28	2.06	—	—	153244-2020-RB
50	1.964 (49.89)	3M5431CT-ND	3.45	2.63	—	700	1581.58	153250-2020-RB-WF
56	2.200 (55.88)	3M5432-ND	3.85	2.93	2.65	—	—	153256-2020-RB
60	2.357 (59.87)	3M5433-ND	4.10	3.12	2.82	—	—	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: 50-150µ Nickel, QQ-N-290, Class 2 • Wiping area: Gold Mil-G-45204, Type II, Grade C  
**Electrical Specifications:** • Current Rating: 1 Amp • Insulation Resistance: >1x10<sup>9</sup>Ω 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 Range: -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	
<b>IDC Sockets Gold</b>						
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	3.31	251.22	1113.00	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
<b>IDC Sockets Gold with Strain Relief</b>						
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	122240-0103-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
<b>IDC Sockets Gold, with Center Polarizing Bump</b>						
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
<b>IDC Sockets Gold, with Center Polarizing Bump, with Strain Relief</b>						
10	.59 (15.0)	MTE10A-ND	3.45	262.28	1162.00	152210-0113-GB
12	.67 (17.0)	MTE12A-ND	3.64	276.50	1225.00	152212-0113-GB

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Pricing			3M Part No.
			1	100	500	
20	.99 (25.1)	MTE20A-ND	3.79	287.56	1274.00	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	4.58	347.60	1540.00	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	.83	63.20	286.00	3448-152212	
20	—	MMMR20-ND	.52	39.50	178.75	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	.52	39.50	178.75	3448-152250	
Keying plug (Strip of 10)			MMMR01-ND	2.08	158.00	715.00	3435-152200

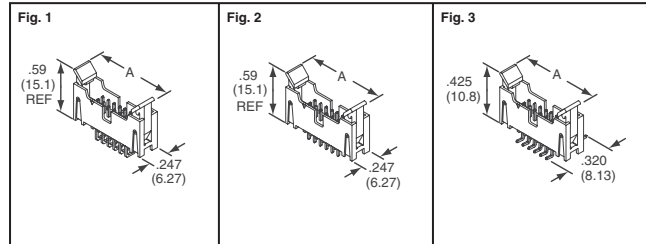
100m reel quantity may contain splices. Splice position will be marked on the reel.

No. of Pos.	Digi-Key Part No.	(NOTE: "X" in Part No. Represents No. of Meters)					3M Part No.
		Price Per Meters					
<b>Ribbon Cable Gray (1mm Pitch)</b>							
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

## 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-STO-020C  
**Specifications:** • Insulation Material: Glass filled Polyester (PCT) • Flammability: UL94V-0 • Contact Material: Copper Alloy • Underplating: 50µ (1.27µm) Nickel • Wiping area: 30µ (0.76µm) Gold • Solder Tails: 200µ (5.0µm) Matte Tin • Color: Black • Current Rating: 1A • Temperature Rating: -55°C - 105°C



No. of Contacts	Dim. A Inch (mm)	Solder Tail Length Inch (mm)	Digi-Key Part No.	Price Each			3M Part No.
				1	100	500	
<b>Fig. 1 — Right Angle</b>							
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	2.85	155212-5302-RB
12	.91 (23.1)	.155 (3.94)	3M5086-ND	4.14	3.15	2.85	155212-5303-RB
20	1.22 (31.09)	.112 (2.84)	3M5090-ND	5.87	4.46	4.04	155220-5302-RB
20	1.22 (31.09)	.155 (3.94)	3M5091-ND	5.87	4.46	4.04	155220-5303-RB
26	1.46 (37.1)	.112 (2.84)	3M5095-ND	6.93	5.27	4.77	155226-5302-RB
26	1.46 (37.1)	.155 (3.94)	3M5096-ND	6.93	5.27	4.77	155226-5303-RB
40	2.01 (51.1)	.112 (2.84)	3M5100-ND	10.65	8.09	7.33	155240-5302-RB
40	2.01 (51.1)	.155 (3.94)	3M5101-ND	10.65	8.09	7.33	155240-5303-RB
44	2.17 (55.09)	.112 (2.84)	3M5105-ND	11.71	8.90	8.06	155244-5302-RB
44	2.17 (55.09)	.155 (3.94)	3M5106-ND	11.71	8.90	8.06	155244-5303-RB
50	2.41 (61.09)	.112 (2.84)	3M5110-ND	13.31	10.12	9.16	155250-5302-RB
50	2.41 (61.09)	.155 (3.94)	3M5111-ND	13.31	10.12	9.16	155250-5303-RB
<b>Fig. 2 — Vertical Through Hole</b>							
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	15525