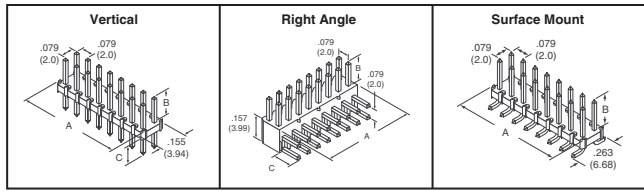




2mm x 2mm Pin Strip Headers

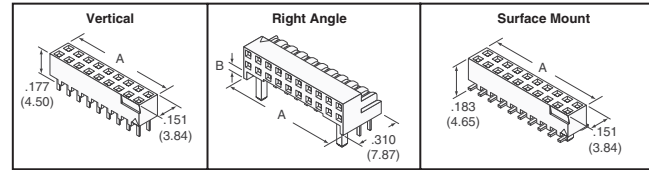


Features: • Industry standard compatible • High temperature dielectric • IR, vapor and wave solder compatible • Straight Solder Tail • Maximizes use of PC board space • Mates with boardmount and wiremount products • End stackable feature • Side stackable feature **Physical Specifications:** • Contact Plating: • Wiping area: 30µ" Gold • Solder Tails: 200µ" Tin Lead (RoHS Compliant: 300µ" Matte Tin) • Underplate: 100µ" Nickel • Contact Material: Copper Alloy • Insulator Material: High Temperature Thermoplastic (PCT or LCP) • Flammability: UL 94V-0 **Electrical Specifications:** • Current Rating: 1.5A • Insulation Resistance: >1 x 10¹⁰Ω @ 250VDC • Withstanding Voltage: 500VDC @ Sea level • **Environmental Specifications:** • Operating Temperature: -55°C - 105°C

No. of Pos.	Dim. Inch (mm)			Digi-Key Part No.	Price Each	3M Part No.
	A	B	C			
Vertical (Natural)						
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1108-ND	.81	151208-8422-TB
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1110-ND	1.31	151210-8422-TB
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1112-ND	.98	151212-8422-TB
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1120-ND	1.31	151220-8422-TB
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1124-ND	1.51	151224-8422-TB
40	1.556 (39.5)	.152 (3.86)	.118 (3.0)	3M1140-ND	2.07	151240-8422-TB
44	1.714 (43.5)	.152 (3.86)	.118 (3.0)	3M1144-ND	2.22	151244-8422-TB
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1150-ND	2.45	151250-8422-TB
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M1160-ND	2.82	151260-8422-TB
Vertical (Black) — RoHS Compliant						
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1408-ND	.67	151208-8422-RB
8	.295 (7.5)	.152 (3.86)	.059 (1.5)	3M5353-ND	1.21	92
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1410-ND	.73	56
10	.374 (9.5)	.130 (3.30)	.118 (3.0)	3M5356-ND	.73	56
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1412-ND	.80	61
14	.531 (13.5)	.152 (3.86)	.118 (3.0)	3M5358-ND	.88	67
16	.611 (15.5)	.152 (3.86)	.118 (3.0)	3M5362-ND	.97	74
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1420-ND	1.07	82
20	.768 (19.5)	.130 (3.30)	.059 (1.5)	3M5365-ND	1.65	126
20	.768 (19.5)	.130 (3.30)	.118 (3.0)	3M5366-ND	1.07	82
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1424-ND	1.24	95
26	1.005 (25.5)	.152 (3.86)	.118 (3.0)	3M5370-ND	1.30	99
30	1.162 (29.5)	.152 (3.86)	.118 (3.0)	3M1430-ND	1.42	108
40	1.556 (39.5)	.152 (3.86)	.118 (3.0)	3M1440-ND	1.69	129
40	1.556 (39.5)	.130 (3.30)	.118 (3.0)	3M5373-ND	1.69	129
44	1.714 (43.5)	.152 (3.86)	.118 (3.0)	3M1444-ND	1.83	139
44	1.714 (43.5)	.130 (3.30)	.118 (3.0)	3M5375-ND	1.83	139
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1450-ND	2.01	153
50	1.950 (49.5)	.130 (3.30)	.118 (3.0)	3M5377-ND	2.01	153
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M5381-ND	2.32	177
Right Angle (Natural)						
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1208-ND	.53	41
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1210-ND	.59	45
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1212-ND	.65	45
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1220-ND	.89	68
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1224-ND	1.01	77
30	1.162 (29.5)	.152 (3.86)	.118 (3.0)	3M1230-ND	1.18	90
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1250-ND	1.75	134
Right Angle (Black) — RoHS Compliant						
8	.295 (7.5)	.152 (3.86)	.118 (3.0)	3M1508-ND	.46	36
10	.374 (9.5)	.152 (3.86)	.118 (3.0)	3M1510-ND	.52	39
10	.374 (9.5)	.130 (3.30)	.118 (3.0)	3M5355-ND	.73	56
12	.453 (11.5)	.152 (3.86)	.118 (3.0)	3M1512-ND	.57	44
12	.453 (11.5)	.130 (3.30)	.118 (3.0)	3M5357-ND	.59	45
16	.611 (15.5)	.152 (3.86)	.118 (3.0)	3M5361-ND	.63	49
18	.689 (17.5)	.152 (3.86)	.118 (3.0)	3M5363-ND	.76	58
20	.768 (19.5)	.152 (3.86)	.118 (3.0)	3M1520-ND	.81	62
24	.925 (23.5)	.152 (3.86)	.118 (3.0)	3M1524-ND	1.05	80
26	1.005 (25.5)	.152 (3.86)	.118 (3.0)	3M5369-ND	1.13	87
30	1.162 (29.5)	.152 (3.86)	.118 (3.0)	3M1530-ND	.97	74
32	1.240 (31.5)	.130 (3.30)	.118 (3.0)	3M5371-ND	1.10	84
36	1.398 (35.5)	.130 (3.30)	.118 (3.0)	3M5372-ND	1.19	91
40	1.556 (39.5)	.152 (3.86)	.118 (3.0)	3M1540-ND	1.51	115
44	1.714 (43.5)	.152 (3.86)	.118 (3.0)	3M1544-ND	1.37	105
44	1.714 (43.5)	.130 (3.30)	.059 (1.5)	3M5374-ND	1.96	150
50	1.950 (49.5)	.152 (3.86)	.118 (3.0)	3M1550-ND	1.51	115
60	2.344 (59.5)	.152 (3.86)	.118 (3.0)	3M2360-ND	1.72	131
Surface Mount (Black) — RoHS Compliant						
4	.139 (3.5)	.130 (3.30)	—	3M5350-ND	.49	37
8	.295 (7.5)	.130 (3.30)	—	3M5351CT-ND†	1.33	1.01
8	.295 (7.5)	.152 (3.86)	—	3M5352CT-ND†	1.40	1.07
8	.295 (7.5)	.152 (3.86)	—	3M5353TR-ND†	241.38/250	—
10	.374 (9.5)	.152 (3.86)	—	3M5354CT-ND†	1.47	1.12
10	.374 (9.5)	.152 (3.86)	—	3M5354TR-ND†	251.76/250	—
16	.611 (15.5)	.130 (3.30)	—	3M5359-ND	.97	74
16	.611 (15.5)	.152 (3.86)	—	3M5360-ND	.97	74
16	.611 (15.5)	.152 (3.86)	—	3M5360CT-ND†	1.54	1.17
16	.611 (15.5)	.152 (3.86)	—	3M5360TR-ND†	529.47/500	—
20	.768 (19.5)	.152 (3.86)	—	3M5364-ND	1.07	82
22	.847 (21.5)	.152 (3.86)	—	3M5367-ND	.99	76
26	1.005 (25.5)	.152 (3.86)	—	3M5368CT-ND†	1.68	1.28
26	1.005 (25.5)	.152 (3.86)	—	3M5368TR-ND†	288.10/250	—
50	1.95 (49.5)	.152 (3.86)	—	3M5376CT-ND†	2.39	1.82
50	1.95 (49.5)	.152 (3.86)	—	3M5376TR-ND†	820.16/500	—
60	2.344 (59.5)	.130 (3.30)	—	3M5378-ND	2.32	1.77
60	2.344 (59.5)	.152 (3.86)	—	3M5379-ND	2.32	1.77

† Cut Tape ◊ Tape and Reel

2mm x 2mm Boardmount Sockets



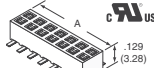
Features: • High temperature dielectric • Reflow solder compatible • Industry standard compatible • Minimizes PC board stacking heights • End stackable feature • Side stackable feature
Physical Specifications: • Insulator Material: Glass Filled Polyester (PCT) • Marking: Orientation delta and 3M Logo • Contact Material: Beryllium copper or Copper alloy • Contact Plating: • Wiping area: 30µ" Gold • Solder Tails: 200µ" Tin/Lead (RoHS Compliant: 300µ" Matte Tin) • Underplate: 50µ - 150µ Nickel overall **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: 1 x 10¹⁰Ω @ 250VDC • **Withstanding Voltage:** 500VDC @ Sea level • **Environmental Specifications:** • Operating Temperature: -55°C - 105°C

No. of Pos.	Dim. Inch (mm)		Digi-Key Part No.	Price Each			3M Part No.
	A	B		1	100	500	
Vertical (Natural)							
8	.310 (8.0)	—	3M1008-ND	1.45	1.11	1.00	150208-6002-TB
10	.389 (10.0)	—	3M1010-ND	1.51	1.15	1.04	150210-6002-TB
20	.782 (20.0)	—	3M1020-ND	1.78	1.36	1.23	150220-6002-TB
24	.940 (24.0)	—	3M1024-ND	1.89	1.44	1.30	150224-6002-TB
30	1.176 (30.0)	—	3M1030-ND	2.04	1.55	1.41	150230-6002-TB
40	1.570 (40.0)	—	3M1040-ND	2.31	1.76	1.59	150240-6002-TB
44	1.727 (44.0)	—	3M1044-ND	2.43	1.85	1.68	150244-6002-TB
50	1.964 (50.0)	—	3M1050-ND	2.58	1.97	1.78	150250-6002-TB
Vertical (Black) — RoHS Compliant							
4	.156 (4.0)	—	3M5301-ND	1.12	.85	.77	150204-6002-RB
6	.231 (6.0)	—	3M5303-ND	1.19	.91	.83	150206-6001-RB
6	.231 (6.0)	—	3M5304-ND	1.18	.90	.81	150206-6001-RB
8	.310 (8.0)	—	3M1308-ND	1.19	.91	.83	150208-6002-RB
10	.389 (10.0)	—	3M1310-ND	1.24	.95	.86	150210-6002-RB
12	.467 (12.0)	—	3M1312-ND	1.29	.98	.89	150212-6002-RB
14	.546 (14.0)	—	3M5308-ND	1.33	1.01	.92	150214-6002-RB
16	.625 (16.0)	—	3M5311-ND	1.36	1.04	.94	150216-6002-RB
18	.704 (18.0)	—	3M5312-ND	1.40	1.07	.97	150218-6002-RB
20	.782 (20.0)	—	3M1320-ND	1.47	1.12	1.01	150220-6002-RB
24	.940 (24.0)	—	3M1324-ND	1.55	1.19	1.07	150224-6002-RB
26	1.019 (26.0)	—	3M5321-ND	1.58	1.21	1.09	150226-6002-RB
28	1.097 (28.0)	—	3M5322-ND	1.58	1.21	1.09	150228-6002-RB
30	1.176 (30.0)	—	3M1330-ND	1.68	1.28	1.16	150230-6002-RB
32	1.255 (32.0)	—	3M5325-ND	1.72	1.31	1.19	150232-6002-RB
34	1.334 (34.0)	—	3M5328-ND	1.76	1.35	1.22	150234-6002-RB
40	1.570 (40.0)	—	3M1340-ND	1.89	1.44	1.30	150240-6002-RB
44	1.727 (44.0)	—	3M1344-ND	2.00	1.52	1.38	150244-6002-RB
50	1.964 (50.0)	—	3M1350-ND	2.13	1.62	1.47	150250-6002-RB
60	2.357 (60.0)	—	3M1360-ND	2.35	1.79	1.62	150260-6002-RB
Right Angle (Black) — RoHS Compliant							
16	.625 (16.0)	.015 (0.38)	3M5310-ND	3.69	2.80	2.54	150216-5002-RB
24	.940 (24.0)	.015 (0.38)	3M5317-ND	4.17	3.17	2.87	150224-5002-RB
26	1.019 (26.0)	.015 (0.38)	3M5320-ND	4.01	3.06	2.77	150226-5002-RB
34	1.334 (34.0)	.015 (0.38)	3M5327-ND	4.18	3.18	2.88	150234-5002-RB
36	1.412 (36.0)	.015 (0.38)	3M5329-ND	4.31	3.27	2.96	150236-5002-RB
40	1.570 (40.0)	.015 (0.38)	3M5332-ND	4.44	3.38	3.06	150240-5002-RB
44	1.727 (44.0)	.015 (0.38)	3M5334-ND	4.52	3.43	3.11	150244-5002-RB
44	1.727 (44.0)	.028 (0.71)	3M5337-ND	4.52	3.43	3.11	150244-5202-RB
50	1.964 (50.0)	.015 (0.38)	3M5341-ND	4.71	3.58	3.24	150250-5002-RB
50	1.964 (50.0)	.053 (1.35)	3M5343-ND	4.71	3.58	3.24	150250-5102-RB
50	1.964 (50.0)	.028 (0.71)	3M5345-ND	4.71	3.58	3.24	150250-5202-RB
60	2.357 (60.0)	.015 (0.38)	3M5349-ND	5.02	3.81	3.45	150260-5002-RB
Right Angle, with Board Locator Post (Black) — RoHS Compliant							
20	.782 (20.0)	.015 (0.38)	3M5314-ND	3.85	2.93	2.65	150220-5022-RB
24	.940 (24.0)	.015 (0.38					

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

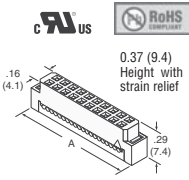


No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing	3M Part No.
			1	100	500		
4	0.156 (3.96)	3M5410-ND	.97	.74	.67	—	153204-2000-RB
4	0.156 (3.96)	3M5635CT-ND	1.18	.90	—	800	647.82 153204-2000-RB-WA
6	0.231 (5.87)	3M5411CT-ND	1.21	.92	—	800	664.44 153206-2000-RB-WA
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 FT-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: WW-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

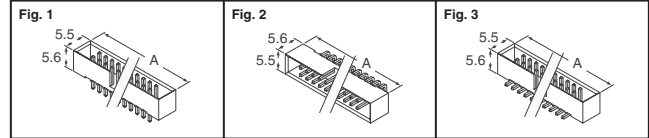
100m reel quantity may contain splices. Splice position will be marked on the reel.

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

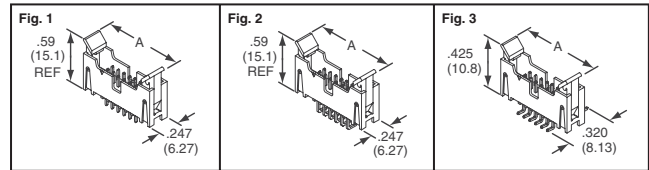


No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Price Each			3M Part No.
			1	100	500	
Fig. 1 — Vertical Thru-Hole						
10	0.677 (17.2)	3M6474-ND	1.24	.95	.86	957210-6002-AR
12	0.756 (19.2)	3M6475-ND	1.27	.97	.88	957212-6002-AR
20	1.07 (27.2)	3M6476-ND	1.44	1.09	.99	957220-6002-AR
26	1.31 (33.2)	3M6477-ND	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: • **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			
				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	155210-6302-RB
10	.83 (21.1)	.155 (3.94)	3M5081-ND	3.67	2.79	2.53	155210-6303-RB
12	.91 (23.1)	.112 (2.84)	3M5085-ND	3.01	2.29	2.07	155212-6302-RB
12	.91 (23.1)	.155 (3.94)	3M5086-ND	3.01	2.29	2.07	155212-6303-RB
20	1.22 (31.09)	.112 (2.84)	3M5090-ND	4.26	3.24	2.93	155220-6302-RB
20	1.22 (31.09)	.155 (3.94)	3M5091-ND	4.26	3.24	2.93	155220-6303-RB
26	1.46 (37.1)	.112 (2.84)	3M5095-ND	5.03	3.82	3.46	155226-6302-RB
26	1.46 (37.1)	.155 (3.94)	3M5096-ND	5.03	3.82	3.46	155226-6303-RB
40	2.01 (51.1)	.112 (2.84)	3M5100-ND	7.73	5.88	5.32	155240-6302-RB
40	2.01 (51.1)	.155 (3.94)	3M5101-ND	7.73	5.88	5.32	155240-6303-RB
44	2.17 (55.09)	.112 (2.84)	3M5105-ND	8.50	6.46	5.85	155244-6302-RB
44	2.17 (55.09)	.155 (3.94)	3M5106-ND	8.50	6.46	5.85	155244-6303-RB
50	2.41 (61.09)	.112 (2.84)	3M5110-ND	9.66	7.35	6.65	155250-6302-RB
50	2.41 (61.09)	.155 (3.94)	3M5111-ND	9.66	7.35	6.65	155250-6303-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)	—	3M5104-ND	10.03			

3M 2mm Mini-Clamp Plugs and Sockets



Features: • Provides even quality • Reduces maintenance work by providing higher connection reliability • Reduces waste • Operation by general tool "pliers" reduces tooling cost • Latch enabled rugged field termination • Physical Specifications: • Material: Glass reinforced thermoplastic body & lower cover, transparent thermoplastic cover • Flammability: UL 94V-0 • Underplating: 100µ" (2.54µm) nickel • Wiping area: 8µ" (0.2µm) minimum gold with lubricant
Electrical Specifications: • Current Rating: 3A • Voltage Rating: 32V • Temperature Rating: -20°C - 85°C

Fig.	No. of Pos.	Dim. A mm
Fig. 1 - Wiremount Plug	3	12.9
	4	14.9
Fig. 2 - Boardmount Plug, Single Row	3	13.8
	4	15.8
Fig. 3 - Boardmount Plug, Multiple Row	3	13.8
	4	15.8
Fig. 4 - Wiremount Socket	3 (without latch)	13.8
	3 (with latch)	23.4
	4 (without latch)	15.8
	4 (with latch)	25.4

CHG Series .100" Wiremount Sockets



Features: • Twin slot IDC provides four points of contact • Exclusive L/H 4-wire contact • 3435-0 keying plug is optional • Accepts discrete wire or notched ribbon cable **Single Row Features:** • One row, side-to-side stackable • Mates to 3M one row pin strip headers **Double Row Features:** • Military/DIN 41612 compatibility • Two row, polarized body • Mates to 3M long latch/eject headers and plugs
Specifications: Physical Specifications: • Insulation Material: Glass Filled Polyester (PBT) • Insulation Flammability: UL 94V-0 • Insulation Color: Gray • Contact Material: Copper Alloy • Plating Wire Area: 30µ" (0.76µm) Gold • Underplating and U-Slot: 100µ" (2.54µm) Nickel **Electrical Specifications:** • Current Rating: 22-24 AWG: 2A; 26-28 AWG: 1.5A • Insulation Resistance: >1x10⁹Ω at 500VDC • Withstanding Voltage: 1000 VRMS at Sea Level **Environmental Specifications:** • Temperature Rating: -55°C - 105°C

Fig.	No. of Positions	Dim. in mm	AWG	Digi-Key Part No.	Price Each	3M Part No.
Fig. 1	3 (without latch)	13.8				
	3 (with latch)	23.4				
Fig. 2	4 (without latch)	15.8				
	4 (with latch)	25.4				

Fig.	No. of Pos.	AWG	Wire Ins. Dia. - mm	Cover Color	Digi-Key Part No.	Price Each	3M Part No.	
1	3	20-22	1.0-1.2	Green	3M5704-ND	1.45 1.36 1.26	37103-2124-000 FL 500	
		20-24	1.0-1.2	Green	3M9003-ND	1.60 1.50 1.39	37103-A124-00E MB	
		20-22	1.2-1.6	Blue	3M5705-ND	1.45 1.36 1.26	37103-2165-000 FL 500	
		20-24	1.2-1.6	Blue	3M9004-ND	1.60 1.50 1.39	37103-A165-00E MB	
		20-22	1.6-2.0	Gray	3M5706-ND	1.45 1.36 1.26	37103-2206-000 FL 500	
		20-24	1.6-2.0	Gray	3M9005-ND	1.60 1.50 1.39	37103-A206-00E MB	
	4	3	20-24	0.8-1.0	Red	3M5707-ND	1.45 1.36 1.26	37103-3101-000 FL 500
			20-26	0.8-1.0	Red	3M9006-ND	1.60 1.50 1.39	37103-B101-00E MB
			24-26	1.0-1.2	Yellow	3M5708-ND	1.45 1.36 1.26	37103-3122-000 FL 500
			24-26	1.0-1.2	Yellow	3M9007-ND	1.60 1.50 1.39	37103-B122-00E MB
			24-26	1.2-1.6	Orange	3M5709-ND	1.45 1.36 1.26	37103-3163-000 FL 500
			24-26	1.2-1.6	Orange	3M9008-ND	1.60 1.50 1.39	37103-B163-00E MB
4		3	20-22	1.0-1.2	Green	3M5710-ND	1.68 1.58 1.46	37104-2124-000 FL 500
			20-24	1.0-1.2	Green	3M9009-ND	1.91 1.79 1.66	37104-A124-00E MB
			20-22	1.2-1.6	Blue	3M5711-ND	1.68 1.58 1.46	37104-2165-000 FL 500
			20-24	1.2-1.6	Blue	3M9010-ND	1.91 1.79 1.66	37104-A165-00E MB
			20-22	1.6-2.0	Gray	3M5712-ND	1.68 1.58 1.46	37104-2206-000 FL 500
			20-24	1.6-2.0	Gray	3M9011-ND	1.91 1.79 1.66	37104-A206-00E MB
	4	3	20-24	0.8-1.0	Red	3M5713-ND	1.68 1.58 1.46	37104-3101-000 FL 500
			24-26	0.8-1.0	Red	3M9012-ND	1.91 1.79 1.66	37104-B101-00E MB
			24-26	1.0-1.2	Yellow	3M5714-ND	1.68 1.58 1.46	37104-3122-000 FL 500
			24-26	1.0-1.2	Yellow	3M9013-ND	1.91 1.79 1.66	37104-B122-00E MB
			24-26	1.2-1.6	Orange	3M5715-ND	1.68 1.58 1.46	37104-3163-000 FL 500
			24-26	1.2-1.6	Orange	3M9014-ND	1.91 1.79 1.66	37104-B163-00E MB
2		3	—	—	—	3M5700-ND‡	1.08 1.01 .94	37203-62A3-003PL
			—	—	—	3M5701-ND‡	1.08 1.01 .94	37203-62B3-003PL
		4	—	—	—	3M5702-ND‡	1.23 1.15 1.07	37204-62A3-004PL
			—	—	—	3M5703-ND‡	1.23 1.15 1.07	37204-62B3-004PL
		3x4	—	—	—	3M5716-ND‡	2.48 2.32 2.16	37208-62A3-004PL
			—	—	—	3M5717-ND‡	2.14 2.00 1.86	37212-62M3-003PL
	4x4	—	—	—	3M5718-ND‡	2.14 2.00 1.86	37216-62M3-004PL	
		—	—	—	3M5719-ND‡	1.57 1.47 1.36	37303-2124-000 FL 500	
	3	4x2	20-22	1.0-1.62	Green	3M5719-ND	1.57 1.47 1.36	37303-2124-000 FL 500
			20-24	1.0-1.2	Green	3M9015-ND	1.71 1.61 1.49	37303-A124-00E MB
			20-22	1.0-1.62	Green	3M5720-ND‡	1.63 1.53 1.42	37303-2124-000 FL 500
			20-24	1.0-1.2	Green	3M9016-ND‡	1.80 1.68 1.56	37303-A124-00E MB
20-22			1.2-1.6	Blue	3M5721-ND‡	1.57 1.47 1.36	37303-2165-000 FL 500	
20-24			1.2-1.6	Blue	3M9017-ND‡	1.71 1.61 1.49	37303-A165-00E MB	
3x4		20-22	1.2-1.6	Blue	3M5722-ND‡	1.63 1.53 1.42	37303-2165-000 FL 500	
		20-24	1.2-1.6	Blue	3M9018-ND‡	1.80 1.68 1.56	37303-A165-00E MB	
		20-22	1.6-2.0	Gray	3M5723-ND‡	1.57 1.47 1.36	37303-2206-000 FL 500	
		20-24	1.6-2.0	Gray	3M9019-ND‡	1.71 1.61 1.49	37303-A206-00E MB	
		20-22	1.6-2.0	Gray	3M5724-ND‡	1.63 1.53 1.42	37303-2206-000 FL 500	
		20-24	1.6-2.0	Gray	3M9020-ND‡	1.80 1.68 1.56	37303-A206-00E MB	
4	3	20-24	0.8-1.0	Red	3M5725-ND‡	1.57 1.47 1.36	37303-3101-000 FL 500	
		24-26	0.8-1.0	Red	3M9021-ND‡	1.71 1.61 1.49	37303-B101-00E MB	
		24-26	0.8-1.0	Red	3M5726-ND‡	1.63 1.53 1.42	37303-3101-000 FL 500	
		24-26	0.8-1.0	Red	3M9022-ND‡	1.80 1.68 1.56	37303-B101-00E MB	
		24-26	1.0-1.62	Yellow	3M5727-ND‡	1.57 1.47 1.36	37303-3122-000 FL 500	
		24-26	1.0-1.62	Yellow	3M9023-ND‡	1.71 1.61 1.49	37303-B122-00E MB	
	4	24-26	1.0-1.62	Yellow	3M5728-ND‡	1.63 1.53 1.42	37303-3122-000 FL 500	
		24-26	1.0-1.2	Yellow	3M9024-ND‡	1.80 1.68 1.56	37303-B122-00E MB	
		24-26	1.2-1.6	Orange	3M5729-ND	1.57 1.47 1.36	37303-3163-000 FL 500	
		24-26	1.2-1.6	Orange	3M9025-ND	1.71 1.61 1.49	37303-B163-00E MB	
		24-26	1.2-1.6	Orange	3M5730-ND‡	1.80 1.68 1.56	37303-3163-000 FL 500	
		24-26	1.2-1.6	Orange	3M9026-ND‡	1.80 1.68 1.56	37303-B163-00E MB	
4	3	20-22	1.0-1.62	Green	3M5731-ND	1.83 1.71 1.59	37304-2124-000 FL 500	
		20-24	1.0-1.2	Green	3M9027-ND	2.06 1.93 1.79	37304-A124-00E MB	
		20-22	1.0-1.62	Green	3M5732-ND‡	1.91 1.79 1.66	37304-2124-000 FL 500	
		20-24	1.0-1.2	Green	3M9028-ND‡	2.14 2.00 1.86	37304-A124-00E MB	
		20-22	1.2-1.6	Blue	3M5733-ND	1.83 1.71 1.59	37304-2165-000 FL 500	
		20-24	1.2-1.6	Blue	3M9029-ND	2.06 1.93 1.79	37304-A165-00E MB	
	4	20-22	1.2-1.6	Blue	3M5734-ND‡	1.91 1.79 1.66	37304-2165-000 FL 500	
		20-24	1.2-1.6	Blue	3M9030-ND‡	2.14 2.00 1.86	37304-A165-00E MB	
		20-22	1.6-2.0	Gray	3M5735-ND	1.83 1.71 1.59	37304-2206-000 FL 500	
		20-24	1.6-2.0	Gray	3M9031-ND	2.06 1.93 1.79	37304-A206-00E MB	
		20-22	1.6-2.0	Gray	3M5736-ND‡	1.91 1.79 1.66	37304-2206-000 FL 500	
		20-24	1.6-2.0	Gray	3M9032-ND‡	2.14 2.00 1.86	37304-A206-00E MB	
4	3	24-26	0.8-1.0	Red	3M5737-ND	1.83 1.71 1.59	37304-3101-000 FL 500	
		24-26	0.8-1.0	Red	3M9033-ND	2.06 1.93 1.79	37304-B101-00E MB	
		24-26	0.8-1.0	Red	3M5738-ND‡	1.91 1.79 1.66	37304-3101-000 FL 500	
		24-26	0.8-1.0	Red	3M9034-ND‡	2.14 2.00 1.86	37304-B101-00E MB	
		24-26	1.0-1.62	Yellow	3M5739-ND	1.83 1.71 1.59	37304-3122-000 FL 500	
		24-26	1.0-1.2	Yellow	3M9035-ND	2.06 1.93 1.79	37304-B122-00E MB	
	4	24-26	1.0-1.62	Yellow	3M5740-ND‡	1.91 1.79 1.66	37304-3122-000 FL 500	
		24-26	1.0-1.2	Yellow	3M9036-ND‡	2.14 2.00 1.86	37304-B122-00E MB	
		24-26	1.2-1.6	Orange	3M5741-ND	1.83 1.71 1.59	37304-3163-000 FL 500	
		24-26	1.2-1.6	Orange	3M9037-ND	2.06 1.93 1.79	37304-B163-00E MB	
		24-26	1.2-1.6	Orange	3M5742-ND‡	1.91 1.79 1.66	37304-3163-000 FL 500	
		24-26	1.2-1.6	Orange	3M9038-ND‡	2.14 2.00 1.86	37304-B163-00E MB	

† With Latch ‡ See Digi-Key website for PCB footprint type § 3M5716 Dim. = 12.9

Fig.	No. of Positions	Dim. in mm	AWG	Digi-Key Part No.	Price Each	3M Part No.
Single Row						
1	2	5.72	26-28	3M9064-ND	.77 .72 .67	CHG-1002-001010-KCP
	2	5.72	22-24	3M9065-ND	.67 .63 .59	CHG-1002-001010-KEP
	3	8.26	26-28	3M9066-ND	1.42 1.33 1.24	CHG-1003-001010-KCP
	3	8.26	22-24	3M9067-ND	1.55 1.45 1.35	CHG-1003-001010-KEP
	4	10.80	26-28	3M9068-ND	1.54 1.44 1.34	CHG-1004-001010-KCP
	4	10.80	22-24	3M9069-ND	1.39 1.30 1.21	CHG-1004-001010-KEP
	5	13.34	26-28	3M9070-ND	1.93 1.80 1.68	CHG-1005-001010-KCP
	5	13.34	22-24	3M9071-ND	2.22 2.08 1.93	CHG-1005-001010-KEP
	6	15.88	26-28	3M9072-ND	2.30 2.15 2.00	CHG-1006-001010-KCP
	6	15.88	22-24	3M9073-ND	2.16 2.02 1.87	CHG-1006-001010-KEP
	7	18.42	26-28	3M9074-ND	2.68 2.51 2.33	CHG-1007-001010-KCP
	7	18.42	22-24	3M9075-ND	2.68 2.51 2.33	CHG-1007-001010-KEP
	8	20.96	26-28	3M9076-ND	3.07 2.87 2.67	CHG-1008-001010-KCP
	8	20.96	22-24	3M9077-ND	3.07 2.87 2.67	CHG-1008-001010-KEP
9	23.50	26-28	3M9078-ND	2.73 2.55 2.37	CHG-1009-001010-KCP	
9	23.50	22-24	3M9079-ND	3.02 2.83 2.62	CHG-1009-001010-KEP	
10	26.04	26-28	3M9080-ND	2.56 2.40 2.23	CHG-1010-001010-KCP	
10	26.04	22-24	3M9081-ND	2.82 2.64 2.45	CHG-1010-001010-KEP	
14	36.20	26-28	3M9082-ND	2.93 2.73 2.54	CHG-1014-001010-KCP	
14	36.20	22-24	3M9083-ND	2.93 2.73 2.54	CHG-1014-001010-KEP	
Double Row						
2	6	12.19	26-28	3M9057-ND	2.58 2.41 2.24	CHG-2006-001010-KCP
	6	12.19	22-24	3M9084-ND	2.30 2.15 2.00	CHG-2006-001010-KEP
	10	17.27	26-28	3M9085-ND	2.56 2.40 2.23	CHG-2010-001010-KCP
	10	17.27	22-24	3M9086-ND	2.56 2.40 2.23	CHG-2010-001010-KEP
	10	17.27	26-28	3M9087-ND▲	2.56 2.40 2.23	CHG-2010-J01010-KCP
	10	17.27	22-24	3M9088-ND▲	2.56 2.40 2.23	CHG-2010-J01010-KEP
	14	22.35	26-28	3M9089-ND	4.62 4.32 4.01	CHG-2014-001010-KCP
	14	22.35	22-24	3M9090-ND	3.58 3.34 3.11	CHG-2014-001010-KEP
	14	22.35	26-28	3M9091-ND▲	3.58 3.34 3.11	CHG-2014-J01010-KCP