

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: Nylon body, polycarbonate 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. 1 — Wiremount Plug

No. of Pos.	Dim. A (mm)
3	12.9
4	14.9

Fig. 2 — Boardmount Plug, Single Row

No. of Pos.	Dim. A (mm)
3	13.8
4	15.8

Fig. 3 — Boardmount Plug, Multiple Row

No. of Pos.	Dim. A (mm)
3	13.8
4	15.8

Fig. 4 — Wiremount Socket

No. of Positions	Dim. A (mm)
3 (without latch)	13.8
3 (with latch)	23.4
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	25	50	
1	3	20-22	1.0-1.2	Green	3M5704-ND	2.00	1.87	1.74	37103-2124-000 FL 500
		20-22	1.2-1.6	Blue	3M5705-ND	2.00	1.87	1.74	37103-2165-000 FL 500
		20-22	1.6-2.0	Gray	3M5706-ND	2.00	1.87	1.74	37103-2206-000 FL 500
		24-26	0.8-1.0	Red	3M5707-ND	2.00	1.87	1.74	37103-3101-000 FL 500
		24-26	1.0-1.2	Yellow	3M5708-ND	2.00	1.87	1.74	37103-3122-000 FL 500
		24-26	1.2-1.6	Orange	3M5709-ND	2.00	1.87	1.74	37103-3163-000 FL 500
	4	20-22	1.0-1.2	Green	3M5710-ND	2.32	2.17	2.01	37104-2124-000 FL 500
		20-22	1.2-1.6	Blue	3M5711-ND	2.32	2.17	2.01	37104-2165-000 FL 500
		20-22	1.6-2.0	Gray	3M5712-ND	2.32	2.17	2.01	37104-2206-000 FL 500
		24-26	0.8-1.0	Red	3M5713-ND	2.32	2.17	2.01	37104-3101-000 FL 500
		24-26	1.0-1.2	Yellow	3M5714-ND	2.32	2.17	2.01	37104-3122-000 FL 500
		24-26	1.2-1.6	Orange	3M5715-ND	2.32	2.17	2.01	37104-3163-000 FL 500
2	3	—	—	—	3M5700-ND‡	1.49	1.39	1.29	37203-62A3-003PL
		—	—	—	3M5701-ND‡	1.49	1.39	1.29	37203-62B3-003PL
		—	—	—	3M5702-ND‡	1.69	1.58	1.47	37204-62A3-004PL
	4	—	—	—	3M5703-ND‡	1.69	1.58	1.47	37204-62B3-004PL
		—	—	—	3M5716-ND‡§	3.42	3.20	2.97	37208-62A3-004PL
		—	—	—	3M5717-ND‡	2.95	2.76	2.56	37212-62M3-003PL
3	4x2	—	—	—	3M5718-ND‡	2.95	2.76	2.56	37216-62M3-004PL
	3x4	—	—	—	3M5717-ND‡	2.95	2.76	2.56	37212-62M3-003PL
	4x4	—	—	—	3M5718-ND‡	2.95	2.76	2.56	37216-62M3-004PL
3	20-22	1.0-1.62	Green	3M5719-ND	2.16	2.02	1.88	37303-2124-000 FL 500	
		20-22	1.0-1.62	Green	3M5720-ND†	2.25	2.10	1.95	37303-2124-0P0 FL 500
		20-22	1.2-1.6	Blue	3M5721-ND	2.16	2.02	1.88	37303-2165-000 FL 500
		20-22	1.2-1.6	Blue	3M5722-ND†	2.25	2.10	1.95	37303-2165-0P0 FL 500
		20-22	1.6-2.0	Gray	3M5723-ND	2.16	2.02	1.88	37303-2206-000 FL 500
		20-22	1.6-2.0	Gray	3M5724-ND†	2.25	2.10	1.95	37303-2206-0P0 FL 500
	24-26	0.8-1.0	Red	3M5725-ND	2.16	2.02	1.88	37303-3101-000 FL 500	
		0.8-1.0	Red	3M5726-ND†	2.25	2.10	1.95	37303-3101-0P0 FL 500	
		1.0-1.62	Yellow	3M5727-ND	2.16	2.02	1.88	37303-3122-000 FL 500	
		1.0-1.62	Yellow	3M5728-ND†	2.25	2.10	1.95	37303-3122-0P0 FL 500	
		1.2-1.6	Orange	3M5729-ND	2.16	2.02	1.88	37303-3163-000 FL 500	
		1.2-1.6	Orange	3M5730-ND†	2.48	2.31	2.15	37303-3163-0P0 FL 500	
	20-22	1.0-1.62	Green	3M5731-ND	2.52	2.36	2.19	37304-2124-000 FL 500	
		1.0-1.62	Green	3M5732-ND†	2.63	2.46	2.29	37304-2124-0P0 FL 500	
		1.2-1.6	Blue	3M5733-ND	2.52	2.36	2.19	37304-2165-000 FL 500	
		1.2-1.6	Blue	3M5734-ND†	2.63	2.46	2.29	37304-2165-0P0 FL 500	
		1.6-2.0	Gray	3M5735-ND	2.52	2.36	2.19	37304-2206-000 FL 500	
		1.6-2.0	Gray	3M5736-ND†	2.63	2.46	2.29	37304-2206-0P0 FL 500	
	24-26	0.8-1.0	Red	3M5737-ND	2.52	2.36	2.19	37304-3101-000 FL 500	
		0.8-1.0	Red	3M5738-ND†	2.63	2.46	2.29	37304-3101-0P0 FL 500	
		1.0-1.62	Yellow	3M5739-ND	2.52	2.36	2.19	37304-3122-000 FL 500	
		1.0-1.62	Yellow	3M5740-ND†	2.63	2.46	2.29	37304-3122-0P0 FL 500	
		1.2-1.6	Orange	3M5741-ND	2.52	2.36	2.19	37304-3163-000 FL 500	
		1.2-1.6	Orange	3M5742-ND†	2.63	2.46	2.29	37304-3163-0P0 FL 500	

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

Molex 2mm Cable-to-Board Receptacle

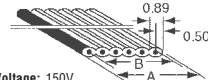
UL2651, UL2678 UL File No: E29179 CSA
 File No: LR19980 Mates With: Milli-Grid 2.00mm Headers
 Electrical: Voltage: 125VDC Current: 1.0A Contact Resistance: 30mΩ maximum Dielectric Withstanding Voltage: 500VAC
 Insulation Resistance: 5000MΩ minimum Physical: Housing: High Thermoplastic, UL 94V-0 Contact: Copper Alloy
 Plating Contact Area: (15µ) Gold Operating Temperature: -20°C - 85°C Cable: 1.00mm Flat Cable, 7 Strands, 28 AWG

No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Price Each			Molex Part No.
	A	B		1	10	25	
Dual Row, IDT without Polarization and Locking Ramp							
10	16.65	8.00	WM14210-ND	2.61	2.09	1.75	87568-1063
12	18.65	10.00	WM14212-ND	2.90	2.32	1.94	87568-1263
14	20.65	12.00	WM14214-ND	3.34	2.68	2.23	87568-1463
16	22.65	14.00	WM14216-ND	3.58	2.87	2.39	87568-1663
20	26.65	18.00	WM14220-ND	3.73	2.99	2.49	87568-2063
22	28.65	20.00	WM14222-ND	4.10	3.29	2.74	87568-2263

No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Price Each			Molex Part No.
	A	B		1	10	25	
24	30.65	22.00	WM14224-ND	4.47	3.58	2.99	87568-2463
26	32.65	24.00	WM14226-ND	4.56	3.65	3.04	87568-2663
30	36.65	28.00	WM14230-ND	4.81	3.85	3.21	87568-3063
34	40.65	32.00	WM14234-ND	5.07	4.06	3.39	87568-3463
40	46.65	38.00	WM14240-ND	5.52	4.42	3.68	87568-4063
44	50.65	42.00	WM14244-ND	5.74	4.60	3.83	87568-4463
50	56.65	48.00	WM14250-ND	6.34	5.08	4.23	87568-5063
Dual Row, IDT with Single Locking Ramp							
10	16.65	8.00	WM14310-ND	2.61	2.09	1.75	87568-1073
12	18.65	10.00	WM14312-ND	2.90	2.32	1.94	87568-1273
Dual Row, IDT with Polarization and Locking Ramp							
14	20.65	12.00	WM14314-ND	3.34	2.68	2.23	87568-1493
16	22.65	14.00	WM14316-ND	3.58	2.87	2.39	87568-1693
20	26.65	18.00	WM14320-ND	3.73	2.99	2.49	87568-2093
22	28.65	20.00	WM14322-ND	4.10	3.29	2.74	87568-2293
24	30.65	22.00	WM14324-ND	4.47	3.58	2.99	87568-2493
26	32.65	24.00	WM14326-ND	4.56	3.65	3.04	87568-2693
30	36.65	28.00	WM14330-ND	4.81	3.85	3.21	87568-3093
34	40.65	32.00	WM14334-ND	5.07	4.06	3.39	87568-3493
40	46.65	38.00	WM14340-ND	5.52	4.42	3.68	87568-4093
44	50.65	42.00	WM14344-ND	5.74	4.60	3.83	87568-4493
50	56.65	48.00	WM14350-ND	6.34	5.08	4.23	87568-5093

RoHS Compliant

1mm Round Conductor Flat Cable



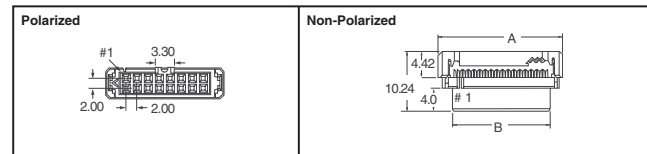
UL File No: E61522, UL Style No. 2678 CSA File No: LL61126 Electrical: Voltage: 150V
 Physical: Flammability: VW-1 Operating Temperature: -20°C - 105°C Insulation: Gray PVC
 Edge Mark: Black, 28AWG Stranded, Tinned

Circuits	Dimensions (mm)		Digi-Key Part No.	(NOTE: "X" in Part No. Represents No. of Feet)				
	A	B		5	10	25	50	100
10	10.00	9.00	WM11-X-ND	3.96	7.46	16.31	27.96	46.60
20	20.00	19.00	WM12-X-ND	7.72	14.52	31.77	54.46	124.65
24	24.00	23.00	WM13-X-ND	9.26	17.42	38.11	65.34	141.36
40	40.00	39.00	WM14-X-ND	16.97	31.94	69.87	119.78	199.63
44	44.00	43.00	WM15-X-ND	18.67	35.14	76.87	131.78	270.79
50	50.00	49.00	WM16-X-ND	19.28	36.30	79.41	136.13	265.32

Tyco Electronics AMP Authorized Distributor

2mm Ribbon Connectors

The new 2.0 (079) AMP-LATCH® receptacle connector family features contacts on a true 2.0 x 2.0 (.079 x .079) mating grid for 1.0 (.039) pitch ribbon. These receptacles feature insulation displacement contacts (IDC) with a top/bottom single beam contact orientation. Contacts are beryllium copper, duplex plated 30µ" gold in the mating area and 100µ" minimum tin-lead on termination end all over 50µ" nickel underplating. Contact mating area is 1.54 (.061) from the face of the housing and they accept 0.50mm (.0197) round or square posts. **Product Facts:** • True hard metric 2.0 x 2.0 mating grid for 1.0 pitch ribbon cable • IDC, beryllium copper contacts, duplex plated gold-over-nickel • U.L. 94V-0 rated thermoplastic components **Performance Data:** • Durability: 150 cycles • Termination Resistance: 25mΩ maximum • Mating Force: 1.67N maximum • Unmating Force: 0.14N minimum • Operating Temperature: -65°C - 105°C



No. of Pos.	Dimensions (mm)		Digi-Key Part No.	Price Each			AMP Part No.
	A	B		1	25	50	
Receptacle — Feed Thru Cover Non-Polarized							
26	31.17	26.42	ASA26K-ND	5.17	3.24	111626-6	
Receptacle — Feed Thru Cover Polarized — RoHS Compliant							
10	15.16	10.41	AKA10L-ND	2.84	1.79	2-111623-8	
14	19.18	14.40	AKA14L-ND	2.94	1.85	2-111623-9	
16	21.18	16.41	AKA16L-ND	3.42	2.15	2-111623-0	
20	25.17	20.40	AKA20L-ND	3.06	1.92	2-111623-1	
24	29.18	24.41	AKA24L-ND	5.25	3.29	2-111623-7	
26	31.17	26.42	AKA26L-ND	3.56	2.24	2-111623-2	
30	35.18	30.40	AKA30L-ND	3.62	2.27	2-111623-3	
40	45.19	40.14	AKA40L-ND	4.45	2.79	2-111623-4	
44	49.17	44.40	AKA44L-ND	4.45	2.80	2-111623-5	
50	55.17	50.39	AKA50L-ND	4.73	2.97	2-111623-6	
Receptacle — Feed Thru Cover Non-Polarized — RoHS Compliant							
8	13.18	8.41	ASA08L-ND	3.27	2.06	2-111626-4	
10	15.16	10.41	ASA10L-ND	3.27	2.05	2-111626-7	
14	19.18	14.40	ASA14L-ND	3.31	2.08	2-111626-8	
16	21.18	16.41	ASA16L-ND	3.45	2.17	2-111626-5	
20	25.17	20.40	ASA20L-ND	3.06	1.92		