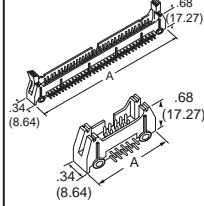


3M Latch/Eject Headers .100" x .100" (2.54mm x 2.54mm)

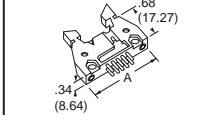
Four-wall shrouded housing to protect against physical and chemical pin damage. Order optional ejector latches separately below.

A

Right Angle Headers



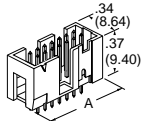
Straight Header



No. of Cont.	Dim. A In. (mm)	Digi-Key Part No.	Pricing			3M Part No.
			1	100	500	
<i>Right Angle</i>						
10	1.26 (32.00)	MHR10K-ND	1.12	85.32	386.10	3793-5002
14	1.46 (37.08)	MHR14K-ND	1.56	118.50	536.25	3314-5002
16	1.56 (39.62)	MHR16K-ND	1.79	135.88	614.90	3408-5002
20	1.76 (44.70)	MHR20K-ND	2.23	169.06	765.05	3428-5002
24	1.96 (49.78)	MHR24K-ND	2.66	202.24	915.20	3627-5002
26	2.06 (52.32)	MHR26K-ND	2.89	219.62	993.85	3429-5002
30	2.26 (57.40)	MHR30K-ND	3.66	202.24	915.20	3440-5002
34	2.46 (62.48)	MHR34K-ND	3.02	229.10	1036.75	3431-5002
40	2.76 (70.10)	MHR40K-ND	3.56	270.18	1222.65	3432-5002
50	3.26 (82.80)	MHR50K-ND	4.43	336.54	1522.95	3433-5002
60	3.76 (95.50)	MHR60K-ND	5.30	402.90	1823.25	3372-5002
<i>Straight</i>						
10	1.26 (32.00)	MHS10K-ND	1.10	83.74	378.95	3793-6002
14	1.46 (37.08)	MHS14K-ND	1.54	116.92	529.10	3314-6002
16	1.56 (39.62)	MHS16K-ND	1.75	132.72	600.60	3408-6002
20	1.76 (44.70)	MHS20K-ND	2.18	165.90	750.75	3428-6002
24	1.96 (49.78)	MHS24K-ND	2.62	199.08	900.90	3627-6002
26	2.06 (52.32)	MHS26K-ND	2.83	214.88	972.40	3429-6002
30	2.26 (57.40)	MHS30K-ND	2.62	199.08	900.90	3440-6002
34	2.46 (62.48)	MHS34K-ND	2.95	224.36	1015.30	3431-6002
40	2.76 (70.10)	MHS40K-ND	3.47	263.86	1194.05	3432-6002
50	3.26 (82.80)	MHS50K-ND	4.35	330.22	1494.35	3433-6002
60	3.76 (95.50)	MHS60K-ND	5.22	396.58	1794.65	3372-6002
<i>Optional Ejector Latches for Connectors</i>						
Short		MLXS01-ND*	.21/2	7.90	35.75	3505-2
Long		MLXS02-ND†	.21/2	7.90	35.75	3505-3

* Use without strain relief; † Use with strain relief

3M Low Profile Headers (Protected Headers)



Physical Specifications: • Insulation: • Material: Glass filled Polyester (PBT)
• Flammability: UL94V-0 • Color: Gray
• Marking: 3M logo and Orientation
Triangle Contact: • Material: Phosphor Bronze (C510) Plating: • Underplate: 100µ Nickel-0.0-N-290, Class 2
• Wiping Area: Gold-MIL-G-45204, Type II, Grade C • Solder Tails: 200µ/60/40 Tin Lead-MIL-P-81728 • Wrap Tails: Gold Flash

Electrical Specifications: • Current Rating: 2A • Insulation Resistance: >1x10¹⁰Ω @ 500VDC • Withstanding voltage: 1000Vrms at Sea Level

Environmental Specification: • Temperature Rating: -55°C to +105°C
UL File No.: E68080
CSA File No.: LR 40971

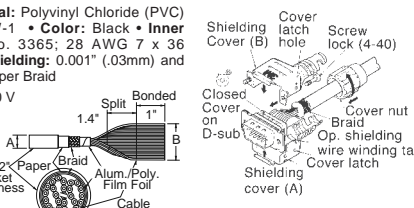
No. of Cont.	Dim. A In. (mm)	Digi-Key Part No.	Pricing			3M Part No.
			1	100	500	
<i>Straight Solder Tail</i>						
10	0.79 (20.07)	MHB10K-ND	1.33	101.12	457.60	2510-6002UB
14	0.99 (22.15)	MHB14K-ND	1.37	104.28	471.90	2514-6002UB
16	1.09 (27.69)	MHB16K-ND	1.54	116.92	529.10	2516-6002UB
20	1.29 (32.77)	MHB20K-ND	1.60	121.66	550.55	2520-6002UB
24	1.49 (37.85)	MHB24K-ND	1.68	127.98	579.15	2524-6002UB
26	1.59 (40.39)	MHB26K-ND	1.71	129.56	586.30	2526-6002UB
30	1.79 (45.47)	MHB30K-ND	1.98	150.10	679.25	2530-6002UB
34	1.99 (50.55)	MHB34K-ND	2.06	156.42	707.85	2534-6002UB
40	2.29 (58.17)	MHB40K-ND	2.20	167.48	757.90	2540-6002UB
50	2.79 (70.87)	MHB50K-ND	2.72	206.98	936.65	2550-6002UB
60	3.29 (83.57)	MHB60K-ND	3.27	248.06	1122.55	2560-6002UB
<i>Right Angle Solder Tail</i>						
10	0.79 (20.07)	MHD10K-ND	1.48	112.18	507.65	2510-5002UB
14	0.99 (22.15)	MHD14K-ND	1.52	115.34	521.95	2514-5002UB
16	1.09 (27.69)	MHD16K-ND	1.68	127.98	579.15	2516-5002UB
20	1.29 (32.77)	MHD20K-ND	1.77	134.30	607.75	2520-5002UB
24	1.49 (37.85)	MHD24K-ND	1.85	140.62	636.35	2524-5002UB
26	1.59 (40.39)	MHD26K-ND	1.87	142.20	643.50	2526-5002UB
30	1.79 (45.47)	MHD30K-ND	2.54	192.76	872.30	2530-5002UB
34	1.99 (50.55)	MHD34K-ND	2.25	170.64	772.20	2534-5002UB
40	2.29 (58.17)	MHD40K-ND	2.41	183.28	829.40	2540-5002UB
50	2.79 (70.87)	MHD50K-ND	3.00	227.52	1029.60	2550-5002UB
60	3.29 (83.57)	MHD60K-ND	3.60	273.34	1236.95	2560-5002UB

3M Round Jacketed/Shielded Flat Cable 3659 Series

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC)
• Flammability Rating: UL VW-1 • Color: Black • Inner Cable: Scotchflex Product No. 3365, 28 AWG 7 x 36 Conductors; UL Style: 2651 • Shielding: 0.001" (.03mm) and 90% Optical Coverage Tinned Copper Braid

ELECTRICAL: • Volt. Rating: 150 V
• Insulation Resistance: > 1 x 10¹⁰Ω/10 ft.

ENVIRONMENTAL: • Temperature Rating: -4°F to +176°F (-20°C to +80°C)



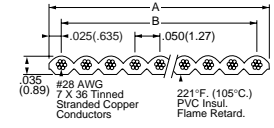
No. of Contacts	Dim. (Inch)	Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll					
			5 ft.	10 ft.	25 ft.	50 ft.	100 ft.	
15	.29	.700	MC15R-X-ND	11.54	21.43	47.81	82.44	131.90
20	.30	.950	MC20R-X-ND	12.43	23.08	51.49	88.78	142.04
24	.35	1.150	MC24R-X-ND	13.32	24.73	55.17	95.11	152.18
25	.35	1.200	MC25R-X-ND	13.73	25.50	56.89	98.09	156.94
26	.35	1.250	MC26R-X-ND	14.20	26.38	58.84	101.45	162.32
34	.39	1.650	MC34R-X-ND	15.98	29.68	66.20	114.14	182.62
36	.41	1.750	MC36R-X-ND	16.42	30.50	68.04	117.31	187.70
37	.41	1.800	MC37R-X-ND	16.87	31.32	69.88	120.48	192.76
40	.41	1.950	MC40R-X-ND	17.31	32.15	71.72	123.65	197.84
50	.50	2.450	MC50R-X-ND	19.97	37.09	82.74	142.66	228.26
60	.53	2.950	MC60R-X-ND	22.39	41.58	92.76	159.94	255.90
64	.54	3.150	MC64R-X-ND	23.53	43.69	97.46	168.04	268.86

No. of Contacts	Digi-Key Part No.	Pricing				3M Part No.
		1	100	500	1,000	
<i>D-Sub Backshells</i>						
9	MDBS09-ND	3.12	237.00	1072.50	1950.00	3357-9209
15	MDBS15-ND	4.26	323.90	1465.75	2665.00	3357-9215
25	MDBS25-ND	4.58	347.60	1573.00	2860.00	3357-9225
37	MDBS37-ND	6.45	489.80	2216.50	4030.00	3357-9237
50	MDBS50-ND	10.77	818.44	3703.70	6734.00	3357-9250

3M Gray Flat Cable 3365 Series

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Color: Gray • Marking: Red Edge • Conductors: 28 AWG 7x36 Tinned Stranded Copper
ELECTRICAL: • Voltage Rating: 300 V • Insulation Resistance: > 1 x 10¹⁰Ω/10 ft.

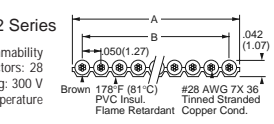
ENVIRONMENTAL: • Temperature Rating: -4°F to +221°F (-20°C to +105°C)



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll					
	"A"	"B"		5 ft.	10 ft.	25 ft.	50 ft.	100 ft.	
10	.500 (12.70)	.450 (11.43)	MC10G-X-ND	1.98	3.67	8.18	14.11	25.40	55.80
14	.700 (17.78)	.650 (16.51)	MC14G-X-ND	2.77	5.14	11.46	19.75	35.56	78.04
16	.800 (20.32)	.750 (19.05)	MC16G-X-ND	3.16	5.87	13.09	22.58	40.64	89.18
20	1.000 (25.40)	.950 (24.13)	MC20G-X-ND	3.95	7.34	16.37	28.23	50.81	111.50
24	1.200 (30.48)	1.150 (29.21)	MC24G-X-ND	4.74	8.81	19.64	33.87	60.96	133.78
26	1.300 (33.02)	1.250 (31.75)	MC26G-X-ND	5.14	9.54	21.28	36.69	66.04	144.92
34	1.700 (43.18)	1.650 (41.91)	MC34G-X-ND	6.72	12.47	27.83	47.98	86.36	189.54
37	1.850 (46.99)	1.800 (45.72)	MC37G-X-ND	7.31	13.58	30.28	52.21	93.98	206.28
40	2.000 (50.80)	1.950 (49.53)	MC40G-X-ND	7.90	14.68	32.74	56.45	101.60	223.00
50	2.500 (63.50)	2.450 (62.23)	MC50G-X-ND	9.88	18.34	40.92	70.55	127.00	278.70
60	3.000 (76.20)	2.950 (74.93)	MC60G-X-ND	11.85	22.01	49.11	84.67	152.40	334.46
64	3.200 (81.28)	3.150 (80.01)	MC64G-X-ND	12.64	23.48	52.38	90.31	162.56	356.74

3M Color Coded Flat Cable 3302 Series

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Color: 10 Color Repeat, Clear Carrier • Conductors: 28 AWG 7 x 36 Tinned Stranded Copper
ELECTRICAL: • Voltage Rating: 300 V • Insulation Resistance: > 1 x 10¹⁰Ω/10 ft. **ENVIRONMENTAL:** • Temperature Rating: -4°F to +176°F (-20°C to +80°C)



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X In Part No. = Ft. Per Roll					
	"A"	"B"		5 ft.	10 ft.	25 ft.	50 ft.	100 ft.	
10	.500 (12.70)	.450 (11.43)	MC10M-X-ND	3.06	5.67	12.66	21.83	39.29	104.76
14	.700 (17.78)	.650 (16.51)	MC14M-X-ND	4.28	7.95	17.73	30.56	55.01	146.70
16	.800 (20.32)	.750 (19.05)	MC16M-X-ND	4.89	9.08	20.27	34.94	62.89	167.72
20	1.000 (25.40)	.950 (24.13)	MC20M-X-ND	6.11	11.35	25.32	43.65	78.57	209.52
24	1.200 (30.48)	1.150 (29.21)	MC24M-X-ND	7.33	13.62	30.38	52.39	94.30	251.46
26	1.300 (33.02)	1.250 (31.75)	MC26M-X-ND	7.95	14.76	32.92	56.75	102.16	272.42
34	1.700 (43.18)	1.650 (41.91)	MC34M-X-ND	10.39	19.29	43.03	74.20	133.55	356.14
37	1.850 (46.99)	1.800 (45.72)	MC37M-X-ND	11.31	21.00	46.84	80.76	145.37	387.66
40	2.000 (50.80)	1.950 (49.53)	MC40M-X-ND	12.22	22.70	50.63	87.30	157.14	419.04
50	2.500 (63.50)	2.450 (62.23)	MC50M-X-ND	15.27	28.37	63.28	109.10	196.38	523.78
60	3.000 (76.20)	2.950 (74.93)	MC60M-X-ND	18.33	34.05	75.95	130.95	235.71	628.56
64	3.200 (81.28)	3.150 (80.01)	MC64M-X-ND	19.55	36.31	81.01	139.67	251.41	670.42

3M Twisted Pair Flat Cable 1700 Series

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1
ELECTRICAL: • Voltage Rating: 300 V • Insulation Resistance: > 1 x 10¹⁰Ω/10 ft.