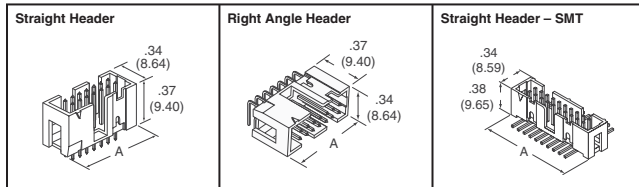


3M Low Profile Headers (Protected Headers)



PHYSICAL:
 • Flammability: UL 94V-0 • Marking: 3M logo, Part Identification Number and Orientation Triangle
ELECTRICAL:
 • Current Rating: 2A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS at Sea Level
ENVIRONMENTAL:
 • Temperature Rating: -55°C - 105°C • UL File No.: E68080

2500 Series Non-Compliant Specifications:
Insulation: • Material: Glass Filled Polyester (PBT) • Color: Gray • Contact Material: Phosphor Bronze (C510) **Plating:**
 • Underplating: 100µ" Nickel-QQ-N-290, Class 2 • Wiping Area: Gold-MIL-G-45204, Type II, Grade C • Solder Tails: 200µ" 60/40 Tin Lead-MIL-P-81728 • CSA File No.: LR 40971
2500 Series RoHS Compliant Specifications:
Process Rating: • 260°C Single pass (profile per J-STD-020C) **Insulation:** • Material: Glass Filled Polyester (PBT), Glass Filled Polyester (PCT) High Temperature option • Contact Material: Copper Alloy **Plating:** • Underplating: 100µ" (2.54µm) Nickel - Overall • Wiping Area: Gold • Solder Tails: 200µ" (5.08µm) Tin Lead or Matte Tin
D2500 Series Specifications:
Process Rating: • 260°C Single pass (profile per J-STD-020C) **Insulation:** • Material: High Temperature Glass Filled Polyester (PCT) • Color: Black • Contact Material: Brass **Plating:** • Underplating: 50 - 100µ" Nickel • Wiping Area: 10µ" (0.25µm) Gold • Solder Tails: 40 - 120µ" (1 - 3µm) Matte Tin



No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	1	Pricing 100	500	3M Part No.
Straight Header						
10	0.788 (20.02)	MHB10K-ND	1.66	126.40	572.00	2510-6002UB
14	0.988 (25.10)	MHB14K-ND	1.73	131.14	593.45	2514-6002UB
16	1.088 (27.64)	MHB16K-ND	1.91	145.36	657.80	2516-6002UB
20	1.288 (32.72)	MHB20K-ND	2.00	151.68	686.40	2520-6002UB
24	1.488 (37.80)	MHB24K-ND	2.10	159.58	722.15	2524-6002UB
26	1.588 (40.34)	MHB26K-ND	2.14	162.74	736.45	2526-6002UB
30	1.788 (45.42)	MHB30K-ND	2.48	188.02	850.85	2530-6002UB
34	1.988 (50.50)	MHB34K-ND	2.56	194.34	879.45	2534-6002UB
40	2.288 (58.12)	MHB40K-ND	2.75	208.56	943.80	2540-6002UB
50	2.788 (70.82)	MHB50K-ND	3.41	259.12	1172.60	2550-6002UB
60	3.288 (83.52)	MHB60K-ND	4.08	309.68	1401.40	2560-6002UB
NEW! Straight Solder Tail, Black PCT - 10µ" Gold - RoHS Compliant NEW!						
10	.788 (20.02)	MHC10E-ND	.94	71.10	321.75	D2510-6002-AR
14	.988 (25.10)	MHC14E-ND	1.06	80.58	364.65	D2514-6002-AR
16	1.088 (27.64)	MHC16E-ND	1.19	90.06	407.55	D2516-6002-AR
20	1.288 (32.72)	MHC20E-ND	1.23	93.22	421.85	D2520-6002-AR
24	1.488 (37.80)	MHC24E-ND	1.31	99.54	450.45	D2524-6002-AR
26	1.588 (40.34)	MHC26E-ND	1.33	101.12	457.60	D2526-6002-AR
30	1.788 (45.42)	MHC30E-ND	1.54	116.92	529.10	D2530-6002-AR
34	1.988 (50.50)	MHC34E-ND	1.60	121.66	550.55	D2534-6002-AR
40	2.288 (58.12)	MHC40E-ND	1.71	129.56	586.30	D2540-6002-AR
50	2.788 (70.82)	MHC50E-ND	2.10	159.58	722.15	D2550-6002-AR
Straight Solder Tail, Black PCT - 30µ" Gold - RoHS Compliant						
10	0.788 (20.02)	MHC10K-ND	1.37	104.28	471.90	N2510-6002RB
14	0.988 (25.10)	MHC14K-ND	1.41	107.44	486.20	N2514-6002RB
16	1.088 (27.64)	MHC16K-ND	1.58	120.08	543.40	N2516-6002RB
20	1.288 (32.72)	MHC20K-ND	1.64	124.82	564.85	N2520-6002RB
24	1.488 (37.80)	MHC24K-ND	1.75	132.72	600.60	N2524-6002RB
26	1.588 (40.34)	MHC26K-ND	1.77	134.30	607.75	N2526-6002RB
30	1.788 (45.42)	MHC30K-ND	2.04	154.84	700.70	N2530-6002RB
34	1.988 (50.50)	MHC34K-ND	2.12	161.16	729.30	N2534-6002RB
40	2.288 (58.12)	MHC40K-ND	2.27	172.22	779.35	N2540-6002RB
50	2.788 (70.82)	MHC50K-ND	2.81	213.30	965.25	N2550-6002RB
60	3.288 (83.52)	MHC60K-ND	3.37	255.96	1158.30	N2560-6002RB
64	3.488 (88.60)	MHC64K-ND	3.58	271.76	1229.80	N2564-6002RB
Right Angle Solder Tail, Gray PBT - 30µ" Gold						
10	0.788 (20.02)	MHD10K-ND	1.83	139.04	629.20	2510-5002UB
14	0.988 (25.10)	MHD14K-ND	1.89	143.78	650.65	2514-5002UB
16	1.088 (27.64)	MHD16K-ND	2.10	159.58	722.15	2516-5002UB
20	1.288 (32.72)	MHD20K-ND	2.23	169.06	765.05	2520-5002UB
24	1.488 (37.80)	MHD24K-ND	2.31	175.38	793.65	2524-5002UB
26	1.588 (40.34)	MHD26K-ND	2.33	176.96	800.80	2526-5002UB
30	1.788 (45.42)	MHD30K-ND	3.18	241.74	1093.95	2530-5002UB
34	1.988 (50.50)	MHD34K-ND	2.79	211.72	958.10	2534-5002UB
40	2.288 (58.12)	MHD40K-ND	3.02	229.10	1036.75	2540-5002UB
50	2.788 (70.82)	MHD50K-ND	3.72	282.82	1279.85	2550-5002UB
NEW! Right Angle Solder Tail, Black PCT - 10µ" Gold - RoHS Compliant NEW!						
10	.788 (20.02)	MHE10E-ND	1.02	77.42	350.35	D2510-5002-AR
14	.988 (25.10)	MHE14E-ND	1.16	88.48	400.40	D2514-5002-AR
16	1.088 (27.64)	MHE16E-ND	1.31	99.54	450.45	D2516-5002-AR
20	1.288 (32.72)	MHE20E-ND	1.37	104.28	471.90	D2520-5002-AR
24	1.488 (37.80)	MHE24E-ND	1.44	109.02	493.35	D2524-5002-AR
26	1.588 (40.34)	MHE26E-ND	1.46	110.60	500.50	D2526-5002-AR
30	1.788 (45.42)	MHE30E-ND	1.98	150.10	679.25	D2530-5002-AR
34	1.988 (50.50)	MHE34E-ND	1.73	131.14	593.45	D2534-5002-AR
40	2.288 (58.12)	MHE40E-ND	1.87	142.20	643.50	D2540-5002-AR
50	2.788 (70.82)	MHE50E-ND	2.31	175.38	793.65	D2550-5002-AR
Right Angle Solder Tail, Black PCT - 30µ" Gold - RoHS Compliant						
10	0.788 (20.02)	MHE10K-ND	1.52	115.34	521.95	N2510-5002RB
14	0.988 (25.10)	MHE14K-ND	1.56	118.50	536.25	N2514-5002RB
16	1.088 (27.64)	MHE16K-ND	1.75	132.72	600.60	N2516-5002RB
20	1.288 (32.72)	MHE20K-ND	1.83	139.04	629.20	N2520-5002RB
24	1.488 (37.80)	MHE24K-ND	1.91	145.36	657.80	N2524-5002RB

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	1	Pricing 100	500	3M Part No.
26	1.588 (40.34)	MHE26K-ND	1.93	146.94	664.95	N2526-5002RB
30	1.788 (45.42)	MHE30K-ND	2.62	199.08	900.90	N2530-5002RB
34	1.988 (50.50)	MHE34K-ND	2.31	175.38	793.65	N2534-5002RB
40	2.288 (58.12)	MHE40K-ND	2.50	189.60	858.00	N2540-5002RB
50	2.788 (70.82)	MHE50K-ND	3.08	233.84	1058.20	N2550-5002RB
60	3.288 (83.52)	MHE60K-ND	3.70	281.24	1272.70	N2560-5002RB
64	3.488 (88.60)	MHE64K-ND	3.95	300.20	1358.50	N2564-5002RB

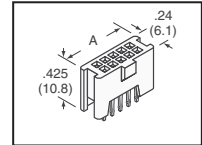
No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Cut Tape Pricing 1	T & R Pricing 100	3M Part No.
Straight, Black PCT, SMT - 30µ" Gold - RoHS Compliant					
10	.788 (20.02)	MSH10KCT-ND	1.58	120.08	228.00
14	.988 (25.10)	MSH14KCT-ND	1.62	123.24	234.00
16	1.088 (27.64)	MSH16KCT-ND	1.79	135.88	258.00
20	1.288 (32.72)	MSH20KCT-ND	1.85	140.62	267.00
24	1.488 (37.80)	MSH24KCT-ND	1.96	148.52	282.00
26	1.588 (40.34)	MSH26KCT-ND	1.98	150.10	285.00
30	1.788 (45.42)	MSH30KCT-ND	2.25	170.64	324.00
34	1.988 (50.50)	MSH34KCT-ND	2.33	176.96	336.00
40	2.288 (58.12)	MSH40KCT-ND	2.48	188.02	357.00
50	2.788 (70.82)	MSH50KCT-ND	3.02	229.10	435.00
60	3.288 (83.52)	MSH60KCT-ND	3.58	271.76	516.00
64	3.488 (88.60)	MSH64KCT-ND	3.79	287.56	546.00
NEW! Straight, Black PCT, SMT - 10µ" Gold - RoHS Compliant NEW!					
10	.788 (20.02)	MSH10ECT-ND	1.04	79.00	150.00
14	.988 (25.10)	MSH14ECT-ND	1.23	93.22	177.00
16	1.088 (27.64)	MSH16ECT-ND	1.35	102.70	195.00
20	1.288 (32.72)	MSH20ECT-ND	1.39	105.86	201.00
24	1.488 (37.80)	MSH24ECT-ND	1.48	112.18	213.00
26	1.588 (40.34)	MSH26ECT-ND	1.48	112.18	213.00
30	1.788 (45.42)	MSH30ECT-ND	1.68	127.98	243.00
34	1.988 (50.50)	MSH34ECT-ND	1.75	132.72	252.00
40	2.288 (58.12)	MSH40ECT-ND	1.85	140.62	267.00
50	2.788 (70.82)	MSH50ECT-ND	2.27	172.22	327.00

† For Tape and Reel part number, change CT-ND to TR-ND.

Polarized Boardmount Socket .100" x .100" (2.54mm x 2.54mm) - 8500 Series



FEATURES: • Centerbump polarization • Mates with low profile shrouded headers
PHYSICAL: • Insulation Material: Glass Filled Polyester (PBT) • Flammability: UL 94V-0 • Color: Gray • Contact Material: Copper Alloy • Plating - Underplating and U-slot: 2µm (79µ") Nickel • Wiping Area: 0.3µm (12µ") Gold • Solder Tails: Gold Flash • Marking: 3M logo, Part Identification Number and Orientation Triangle
ELECTRICAL: • Current Rating: 1A • Insulation Resistance: >1 x 10⁹Ω @ 500VDC
ENVIRONMENTAL: • Temperature Rating: -55°C - 105°C



No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	1	Pricing 100	500	3M Part No.
10	0.68 (17.3)	MSPV10-ND	2.20	167.48	757.90	8510-4500PL
16	0.98 (25.9)	MSPV16-ND	2.85	216.46	979.55	8516-4500PL
20	1.18 (30.0)	MSPV20-ND	3.37	255.96	1158.30	8520-4500PL
26	1.48 (37.6)	MSPV26-ND	3.89	295.46	1337.05	8526-4500PL
34	1.88 (47.7)	MSPV34-ND	4.70	357.08	1615.90	8534-4500PL
40	2.18 (55.4)	MSPV40-ND	5.26	399.74	1808.95	8540-4500PL
50	2.68 (68.1)	MSPV50-ND	6.28	477.16	2159.30	8550-4500PL
60	3.18 (80.8)	MSPV60-ND	7.30	554.58	2509.65	8560-4500PL
64	3.38 (85.8)	MSPV64-ND	7.68	583.02	2638.35	8564-4500PL

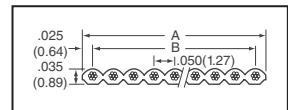
Round Conductor Flat Cable 3365 Series



Physical: • .050" pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray with Red Stripe on wire #1 • AWM 2651 105C 300V VV1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper



Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x 10¹⁰Ω/10 feet
Environmental: • Temperature Rating: -20°C - 105°C • Flammability Rating: VW-1



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet					
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*	300 ft.*
6	0.30 (7.62)	0.25 (6.35)	MC06G-X-ND	1.22	2.27	5.06	8.73	15.71	41.88
10	0.50 (12.70)	0.45 (11.43)	MC10G-X-ND	1.71	3.17	7.08	12.21	21.98	58.60
14	0.70 (17.78)	0.65 (16.51)	MC14G-X-ND	2.16	4.02	8.96	15.45	27.80	74.14
16	0.80 (20.32)	0.75 (19.05)	MC16G-X-ND	2.47	4.59	10.24	17.65	31.77	84.72
20	1.00 (25.40)	0.95 (24.13)	MC20G-X-ND	3.09	5.74	12.80	22.07	39.72	105.92
24	1.20 (30.48)	1.15 (29.21)	MC24G-X-ND	3.71	6.88	15.36	26.48	47.66	127.10
26	1.30 (33.02)	1.25 (31.75)	MC26G-X-ND	4.02	7.46	16.64	28.68	51.63	137.68
34	1.70 (43.18)	1.65 (41.91)	MC34G-X-ND	5.25	9.75	21.76	37.51	67.52	180.06

3M Color Coded Flat Cable 3302 Series

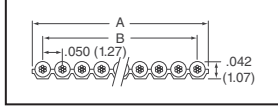


UL File No.: E42769
AWM Style No.: 20462

Physical: • .050" pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: 10 Color Repeat, Clear Carrier • AWM 20462 105C 300V VW1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x 10¹⁰Ω/10 feet

Environmental: • Temperature Rating: -20°C - 105°C • Flammability Rating: VW-1



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing					
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	300 ft.*	
10	0.50 (12.70)	0.45 (11.43)	MC10M-X-ND	3.03	5.63	12.56	21.66	38.99	103.96
14	0.70 (17.78)	0.65 (16.51)	MC14M-X-ND	4.24	7.88	17.59	30.32	54.58	145.34
16	0.80 (20.32)	0.75 (19.05)	MC16M-X-ND	4.85	9.01	20.10	34.65	62.37	166.32
20	1.00 (25.40)	0.95 (24.13)	MC20M-X-ND	6.06	11.26	25.12	43.31	77.96	207.90
24	1.20 (30.48)	1.15 (29.21)	MC24M-X-ND	7.28	13.51	30.15	51.98	93.56	249.48
26	1.30 (33.02)	1.25 (31.75)	MC26M-X-ND	7.88	14.64	32.66	56.31	101.36	270.28
34	1.70 (43.18)	1.65 (41.91)	MC34M-X-ND	10.31	19.14	42.71	73.63	132.54	353.44
37	1.85 (46.99)	1.80 (45.72)	MC37M-X-ND	11.22	20.83	46.47	80.13	144.23	384.62
40	2.00 (50.80)	1.95 (49.53)	MC40M-X-ND	12.13	22.52	50.24	86.63	155.93	415.80
50	2.50 (63.50)	2.45 (62.23)	MC50M-X-ND	15.16	28.15	62.80	108.28	194.91	519.76
60	3.00 (76.20)	2.95 (74.93)	MC60M-X-ND	18.19	33.78	75.36	129.94	233.89	623.70
64	3.20 (81.28)	3.15 (80.01)	MC64M-X-ND	19.40	36.04	80.39	138.60	249.48	665.28

* Cable available on xxx foot roll

High Flex Life Cable 3319 Series



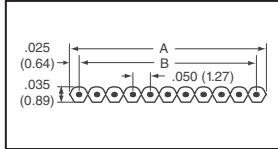
UL File No.: E42769
AWM Style No.: 2651

19 strands of high strength copper alloy provide the longest flex life available for dynamic applications. Flex life of 100 million cycles at 1 3/4 inch diameter.

Physical: • .050" pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: Black with Red Stripe on wire #1 • AWM 2651 105C 300V VW1 • Conductors: 28 AWG, 19 x 40 Silver Plated Stranded Copper Alloy

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x 10¹⁰Ω/10 feet

Environmental: • Temperature Rating: -20°C - 105°C • Flammability Rating: VW-1



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing					
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*	
10	0.50 (12.70)	0.45 (11.43)	MC10H-X-ND	19.94	37.03	82.60	142.41	227.86	319.00
14	0.70 (17.78)	0.65 (16.51)	MC14H-X-ND	27.91	51.84	115.64	199.38	319.00	319.00
16	0.80 (20.32)	0.75 (19.05)	MC16H-X-ND	31.90	59.24	132.15	227.85	364.56	516.00
20	1.00 (25.40)	0.95 (24.13)	MC20H-X-ND	39.87	74.05	165.19	284.81	455.70	612.00
24	1.20 (30.48)	1.15 (29.21)	MC24H-X-ND	47.85	88.86	198.23	341.78	546.84	747.00
26	1.30 (33.02)	1.25 (31.75)	MC26H-X-ND	51.84	96.27	214.75	370.26	592.42	803.00
34	1.70 (43.18)	1.65 (41.91)	MC34H-X-ND	67.79	125.89	280.83	484.19	774.70	1065.00
37	1.85 (46.99)	1.80 (45.72)	MC37H-X-ND	73.77	136.99	305.60	526.90	843.04	1134.00
40	2.00 (50.80)	1.95 (49.53)	MC40H-X-ND	79.75	148.10	330.38	569.63	911.40	1242.00
50	2.50 (63.50)	2.45 (62.23)	MC50H-X-ND	99.69	185.13	412.98	712.04	1139.26	1557.00
60	3.00 (76.20)	2.95 (74.93)	MC60H-X-ND	119.62	222.15	495.57	854.44	1367.10	1884.00
64	3.20 (81.28)	3.15 (80.01)	MC64H-X-ND	127.59	236.96	528.60	911.38	1458.20	1986.00

* Cable available on xxx foot roll

Gray Cable Clamps with Adhesive



3484 Series: Cable clamps organize cable routing by clamping and retaining up to six layers of flat cable.
3484-1000-ND Cable Clamps with Adhesive \$14.00/100

Round Conductor Flat Cable 2010 Series - Halogen Free



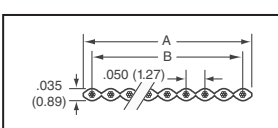
UL File No.: E42769
AWM Style No.: 20930

Advantages of this halogen free insulation are low smoke (BSS 7238) and low toxicity of combustion gasses (NES 713).

Physical: • .050" pitch • Insulation Material: Halogen Free Polyolefin (PO) • Color: Off-White with Blue Stripe on wire #1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 30V • Insulation Resistance: >1 x 10¹⁰Ω/10 feet

Environmental: • Temperature Rating: -20°C - 105°C • Flammability Rating: UL: Horizontal IEC 332-1, -2, & -3



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing					
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*	
9	0.45 (11.43)	0.40 (10.16)	MB09H-X-ND	3.12	5.79	12.92	22.28	35.64	93.56
10	0.50 (12.70)	0.45 (11.43)	MB10H-X-ND	3.46	6.43	14.35	24.74	39.58	101.36
14	0.70 (17.78)	0.65 (16.51)	MB14H-X-ND	4.85	9.01	20.09	34.64	55.42	145.34
15	0.75 (19.05)	0.70 (17.78)	MB15H-X-ND	5.19	9.65	21.52	37.10	59.35	155.76
16	0.80 (20.32)	0.75 (19.05)	MB16H-X-ND	5.54	10.29	22.95	39.58	63.32	166.32
20	1.00 (25.40)	0.95 (24.13)	MB20H-X-ND	6.93	12.86	28.70	49.48	79.16	207.90
24	1.20 (30.48)	1.15 (29.21)	MB24H-X-ND	8.31	15.43	34.43	59.36	94.98	249.48
25	1.25 (31.75)	1.20 (30.48)	MB25H-X-ND	8.66	16.08	35.87	61.84	98.94	260.46
26	1.30 (33.02)	1.25 (31.75)	MB26H-X-ND	9.00	16.72	37.30	64.31	102.90	271.44
30	1.50 (38.10)	1.45 (36.83)	MB30H-X-ND	10.39	19.30	43.04	74.21	118.74	311.70
34	1.70 (43.18)	1.65 (41.91)	MB34H-X-ND	11.77	21.87	48.78	84.10	134.56	353.44
36	1.80 (45.72)	1.75 (44.45)	MB36H-X-ND	12.47	23.15	51.65	89.05	142.48	364.56
37	1.85 (46.99)	1.80 (45.72)	MB37H-X-ND	12.81	23.80	53.08	91.53	146.44	375.54
40	2.00 (50.80)	1.95 (49.53)	MB40H-X-ND	13.85	25.73	57.39	98.95	158.32	415.80
50	2.50 (63.50)	2.45 (62.23)	MB50H-X-ND	17.32	32.16	71.74	123.69	197.90	519.76
60	3.00 (76.20)	2.95 (74.93)	MB60H-X-ND	20.78	38.59	86.09	148.43	237.48	623.70
64	3.20 (81.28)	3.15 (80.01)	MB64H-X-ND	22.17	41.16	91.53	158.33	253.32	665.28

* Cable available on xxx foot roll

NEW! Round Conductor Flat Cable FEP - 3601 Series

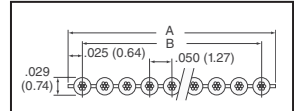


UL File No.: E42769
AWM Style No.: 20424

Features: • Excellent abrasion and chemical resistance • Excellent mechanical durability • Nonflammable • UL Recognized at 200°C

Physical Specifications: • Insulation Material: Fluorinated Ethylene Propylene (FEP) • Insulation Color: Blue

Electrical Specifications: • Voltage Rating: 300V (USA); <50V (EU) • Insulation Resistance: >1 x 10¹⁰Ω / 10ft (3 meters) • Conductors: 28 AWG, 7x36 AWG (7x0.127) Silver plated stranded copper • Temperature Rating: -55°C - 200°C • Flammability Rating: VW-1



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing					
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*	
10	0.50 (12.70)	0.45 (11.43)	MB10C-X-ND	21.66	40.22	89.72	154.69	247.50	319.00
15	0.75 (19.05)	0.7 (17.78)	MB15C-X-ND	32.49	60.33	134.58	232.04	371.26	486.00
16	0.80 (20.32)	0.75 (19.05)	MB16C-X-ND	34.65	64.35	143.55	247.50	396.00	516.00
20	1.00 (25.40)	0.95 (24.13)	MB20C-X-ND	43.31	80.44	179.44	309.38	495.00	645.00
25	1.25 (31.75)	1.20 (30.48)	MB25C-X-ND	54.14	100.55	224.30	386.73	618.76	803.00
26	1.30 (33.02)	1.25 (31.75)	MB26C-X-ND	56.31	104.57	233.27	402.19	643.50	843.00
30	1.5 (38.1)	1.45 (36.83)	MB30C-X-ND	64.97	120.66	269.16	464.06	742.50	966.00
34	1.70 (43.18)	1.65 (41.91)	MB34C-X-ND	73.63	136.74	305.04	525.94	841.50	1095.00
40	2.00 (50.80)	1.95 (49.53)	MB40C-X-ND	86.63	160.88	358.88	618.75	990.00	1296.00
50	2.50 (63.50)	2.45 (62.23)	MB50C-X-ND	108.28	201.09	448.59	773.44	1237.50	1623.00
60	3.00 (76.20)	2.95 (74.93)	MB60C-X-ND	129.94	241.31	538.31	928.13	1485.00	1944.00

* Cable available on xxx foot roll

Twisted Pair Flat Cable 1700 Series



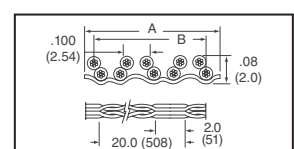
UL File No.: E42769
AWM Style No.: 20462

Provides reduced crosstalk in balanced drive applications. Standard product has alternating 18" twisted sections and 2" flat sections.

Physical: • .050" pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: 10 Color Repeat with Tan Common • AWM 20462 105C 300V VW1 • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x 10¹⁰Ω/10 feet

Environmental: • Temperature Rating: -20°C - 105°C • Flammability Rating: VW-1



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing					
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*	
10	0.50 (12.70)	0.45 (11.43)	MC10F-X-ND	3.23	6.01	13.40	23.10	36.96	96.60
14	0.70 (17.78)	0.65 (16.51)	MC14F-X-ND	4.53	8.41	18.76	32.34	51.74	134.40
16	0.80 (20.32)	0.75 (19.05)	MC16F-X-ND	5.17	9.61	21.44	36.96	59.14	152.40
20	1.00 (25.40)	0.95 (24.13)	MC20F-X-ND	6.47	12.01	26.80	46.20	73.92	190.80
24	1.20 (30.48)	1.15 (29.21)	MC24F-X-ND	8.41	15.82	34.84	60.06	96.10	249.48
34	1.70 (43.18)	1.65 (41.91)	MC34F-X-ND	11.00	20.42	45.55	78.54	125.66	327.00
36	1.80 (45.72)	1.75 (44.45)	MC36F-X-ND	11.64	21.62	48.23	83.16	133.06	346.80
40	2.00 (50.80)	1.95 (49.53)	MC40F-X-ND	12.94	24.02	53.59	92.40	147.84	384.60
50	2.50 (63.50)	2.45 (62.23)	MC50F-X-ND	16.17	30.03	66.99	115.50	184.80	480.00
60	3.00 (76.20)	2.95 (74.93)	MC60F-X-ND	19.40	36.04	80.39	138.60	221.76	576.00
64	3.20 (81.28)	3.15 (80.01)	MC64F-X-ND	20.70	38.44	85.75	147.84	236.54	606.00

* Cable available on xxx foot roll

Shielded/Jacketed Flat Cable 3517 Series



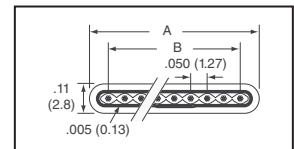
UL File No.: E118773
AWM Style No.: 20879

360° expanded copper shielding provide 20 db average shielding effectiveness.

Physical: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Black • Insulation Material: Polyvinyl Chloride (PVC) • Insulation Color: Gray with Red Stripe on wire #1 • AWM 20879 75C 28 AWG • Conductors: 28 AWG, 7 x 36 Tinned Stranded Copper • Shielding Material: Expanded Copper

Electrical: • Voltage Rating: 300V • Insulation Resistance: >1 x 10¹⁰Ω/10 feet

Environmental: • Temperature Rating: -20°C - 80°C • Flammability Rating: N.E.C 725, CL2



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing					
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*	
9	0.58 (14.70)	0.40 (10.16)	MB09H-X-ND	11.24	20.87	46.56	80.28	153.90	396.00
10	0.63 (16.00)	0.45 (11.43)	MB10H-X-ND	12.49	23.19	51.74	89.20	180.90	456.00
14	0.83 (21.10)	0.65 (16.51)	MB14H-X-ND	17.48	32.47				

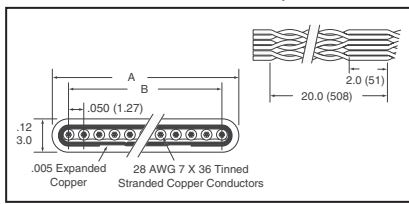
3M Shielded/Jacketed Flat Cable – 1785 Series

UL File No.: E118773
AWM Style No.: 2912

PHYSICAL: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC)
• Jacket Color: Black • Primary Material: PVC • Primary Color: 10 Color Repeat with Tan Common • Shielding: Expanded Copper

ELECTRICAL: • Voltage Rating: USA: N.E.C. 725, CL2 or AWM 150V; Canada: 150V; EU: >50V • Insulation Resistance: >1 x 10¹⁰/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C - 80°C



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet			
	A	B		5 ft.*	10 ft.*	25 ft.*	100 ft.*
16	0.93 (23.60)	0.75 (19.05)	MB16F-X-ND	35.89	80.06	138.04	220.86
20	1.13 (28.70)	0.95 (24.13)	MB20F-X-ND	41.47	92.51	159.50	255.20
26	1.43 (36.30)	1.25 (31.75)	MB26F-X-ND	53.91	120.26	207.34	331.74
34	1.83 (46.50)	1.65 (41.91)	MB34F-X-ND	70.50	157.27	271.15	433.84
36	1.93 (49.00)	1.75 (44.45)	MB36F-X-ND	74.65	166.52	287.10	459.36
40	2.13 (54.10)	1.95 (49.53)	MB40F-X-ND	88.52	197.48	340.48	544.76
50	2.63 (66.80)	2.45 (62.23)	MB50F-X-ND	103.68	231.28	398.75	638.00
60	3.13 (79.50)	2.95 (74.93)	MB60F-X-ND	124.41	277.52	478.49	765.58
64	3.38 (85.90)	3.15 (80.01)	MB64F-X-ND	141.63	315.95	544.74	871.58

* Cable available on xxx foot roll

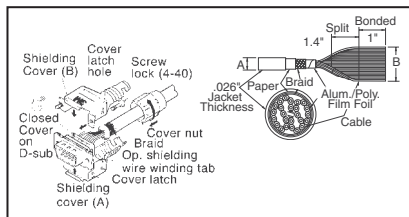
Round Jacketed/Shielded Flat Cable – 3659 Series

UL File No.: E118773
AWM Style No.: 20267

PHYSICAL: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC)
• Jacket Color: Black • Primary Material: PVC • Primary Color: Gray • Conductors: 28 AWG 7 x 36 Tinned Stranded Copper • Shielding: 0.001" (.03mm) Thick Aluminum/Polyester Film Foil and 90% Coverage Tinned Copper Braid

ELECTRICAL: • Voltage Rating: USA: N.E.C. 725, CL2 or AWM 300V; Canada: 300V; EU: >50V • Insulation Resistance: >1 x 10¹⁰/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C - 80°C



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet			
	A	B		5 ft.*	10 ft.*	25 ft.*	100 ft.*
9	0.27 (6.9)	0.40 (10.2)	MC09R-X-ND	10.24	19.02	42.43	73.15
10	0.27 (6.9)	0.45 (11.4)	MC10R-X-ND	10.72	19.91	44.42	76.59
14	0.31 (7.9)	0.65 (16.5)	MC14R-X-ND	11.65	21.64	48.27	83.23
15	0.31 (7.9)	0.70 (17.8)	MC15R-X-ND	12.12	22.51	50.21	86.56
16	0.31 (7.9)	0.75 (19.1)	MC16R-X-ND	12.58	23.36	52.11	89.85
20	0.34 (8.6)	0.95 (24.1)	MC20R-X-ND	13.05	24.24	54.06	93.21
24	0.37 (9.4)	1.15 (29.2)	MC24R-X-ND	13.98	25.96	57.92	99.86
25	0.37 (9.4)	1.20 (30.5)	MC25R-X-ND	14.42	26.78	59.73	102.99
26	0.37 (9.4)	1.25 (31.8)	MC26R-X-ND	14.91	27.70	61.78	106.53
34	0.41 (10.4)	1.65 (41.9)	MC34R-X-ND	16.78	31.16	69.51	119.85
36	0.43 (10.9)	1.75 (44.5)	MC36R-X-ND	17.24	32.03	71.44	123.18
37	0.43 (10.9)	1.80 (45.7)	MC37R-X-ND	17.71	32.89	73.37	126.50
40	0.43 (10.9)	1.95 (49.5)	MC40R-X-ND	18.18	33.76	75.31	129.84
50	0.48 (12.2)	2.45 (62.2)	MC50R-X-ND	20.97	38.95	86.88	149.80
60	0.51 (13.0)	2.95 (74.9)	MC60R-X-ND	23.51	43.66	97.40	167.94
64	0.54 (13.7)	3.15 (80.0)	MC64R-X-ND	24.70	45.87	102.33	176.44

* Cable available on xxx foot roll

No. of Contacts	Digi-Key Part No.	Pricing				3M Part No.
		1	100	500	1,000	
D-Sub Backshells						
9	MDBS09-ND	3.93	298.62	1351.35	2457.00	3357-9209
15	MDBS15-ND	4.35	330.22	1494.35	2717.00	3357-9215
25	MDBS25-ND	4.97	377.62	1708.85	3107.00	3357-9225
37	MDBS37-ND	7.26	551.42	2495.35	4537.00	3357-9237
50	MDBS50-ND	11.40	865.84	3918.20	7124.00	3357-9250
Thumbscrew Kit (2 Thumbscrews and 2 Retainers)						
—	MDS07-ND	4.33	328.64	1487.20	2704.00	3341-7 KIT

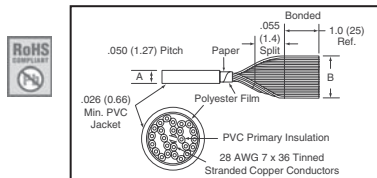
Round/Jacketed Flat Cable – 3759 Series

UL File No.: E118773
AWM Style No.: 20267

PHYSICAL: • .050" pitch • Jacket Material: Polyvinyl Chloride (PVC) • Jacket Color: Black • Primary Material: PVC

ELECTRICAL: • Voltage Rating: USA: N.E.C. 725, CL2 or AWM 300V; Canada: 300V; EU: <50V • Insulation Resistance: >1 x 10¹⁰/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C - 80°C



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet			
	A	B		5 ft.*	10 ft.*	25 ft.*	100 ft.*
9	0.26 (6.6)	0.40 (10.2)	MB09A-X-ND	8.75	16.25	36.25	62.50
10	0.26 (6.6)	0.45 (11.4)	MB10A-X-ND	9.16	17.01	37.95	66.43
14	0.27 (6.9)	0.65 (16.5)	MB14A-X-ND	9.95	18.49	41.24	71.10

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet				
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*
15	0.27 (6.9)	0.70 (17.8)	MB15A-X-ND	10.35	19.23	42.89	73.95	
16	0.27 (6.9)	0.75 (19.1)	MB16A-X-ND	10.75	19.96	44.54	76.79	
20	0.30 (7.6)	0.95 (24.1)	MB20A-X-ND	11.15	20.71	46.19	79.64	
24	0.33 (8.4)	1.15 (29.2)	MB24A-X-ND	11.95	22.18	49.49	85.33	
25	0.33 (8.4)	1.20 (30.5)	MB25A-X-ND	12.32	22.88	51.04	88.00	
26	0.33 (8.4)	1.25 (31.8)	MB26A-X-ND	12.74	23.67	52.79	91.03	
30	0.37 (9.4)	1.45 (36.8)	MB30A-X-ND	12.68	23.56	52.55	90.60	
34	0.37 (9.4)	1.65 (41.9)	MB34A-X-ND	14.34	26.62	59.39	102.40	
36	0.39 (9.9)	1.75 (44.5)	MB36A-X-ND	14.73	27.36	61.04	105.24	
37	0.39 (9.9)	1.80 (45.7)	MB37A-X-ND	15.13	28.10	62.68	108.08	
40	0.39 (9.9)	1.95 (49.5)	MB40A-X-ND	15.53	28.84	64.34	110.93	
50	0.44 (11.2)	2.45 (62.2)	MB50A-X-ND	17.92	33.28	74.23	127.99	
60	0.47 (11.9)	2.95 (74.9)	MB60A-X-ND	20.09	37.31	83.22	143.49	
64	0.50 (12.7)	3.15 (80.0)	MB64A-X-ND	21.10	39.19	87.43	150.74	

* Cable available on xxx foot roll

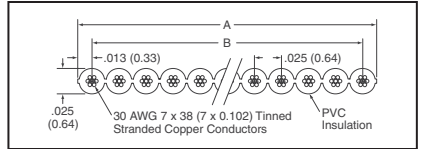
.025" Gray Flat Cable – 3754 Series

UL File No.: E118773
AWM Style No.: 20267

PHYSICAL: • PVC Insulation • 30 AWG Stranded on .025" spacing

ELECTRICAL: • Voltage Rating: 30V • Flammability Rating: USA: VW-1 Canada: FT1

ENVIRONMENTAL: • Temperature Rating: -20°C - 105°C



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet				
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*
20	0.50 (12.70)	0.475 (12.07)	MB20G-X-ND	3.65	6.77	15.10	26.04	
26	0.60 (15.25)	0.625 (15.88)	MB26G-X-ND	4.74	8.80	19.63	33.85	
30	0.750 (19.05)	0.725 (18.42)	MB30G-X-ND	5.47	10.16	22.65	39.06	
36	1.000 (25.40)	0.975 (24.77)	MB40G-X-ND	7.29	13.54	30.21	52.08	
50	1.250 (31.75)	1.225 (31.12)	MB50G-X-ND	9.11	16.93	37.76	65.10	
60	1.500 (38.10)	1.475 (37.47)	MB60G-X-ND	10.94	20.31	45.31	78.12	
68	1.700 (43.18)	1.675 (42.55)	MB68G-X-ND	12.40	23.02	51.35	88.54	
80	2.000 (50.80)	1.975 (50.17)	MB80G-X-ND	14.58	27.08	60.41	104.16	
100	2.500 (63.50)	2.475 (62.87)	MB100G-X-ND	18.23	33.85	75.52	130.20	

* Cable available on xxx foot roll

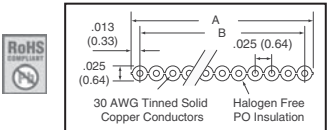
Round Conductor Flat Cable – 2049 Series

UL File No.: E42769
AWM Style No.: 20930

PHYSICAL: • .025" pitch • Insulation Material: Halogen Free Polyolefin (PO) • Color: Off-White

ELECTRICAL: • Voltage Rating: USA: 30V; EU: <50V • Insulation Resistance: >1 x 10¹⁰/10 feet

ENVIRONMENTAL: • Temperature Rating: -40°C - 105°C



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet				
	A	B		5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*
20	0.500 (12.70)	0.475 (12.07)	MB20K-X-ND	6.23	11.56	25.80	44.48	
40	1.000 (25.40)	0.975 (24.77)	MB40K-X-ND	13.13	24.38	54.38	93.75	
50	1.250 (31.75)	1.225 (31.12)	MB50K-X-ND	15.65	29.07	64.85	111.81	
60	1.500 (38.10)	1.475 (37.47)	MB60K-X-ND	18.68	34.69	77.39	133.43	
68	1.700 (43.18)	1.675 (42.55)	MB68K-X-ND	21.17	39.32	87.70	151.21	
80	2.000 (50.80)	1.975 (50.17)	MB80K-X-ND	24.91	46.25	103.18	177.90	
100	2.500 (63.50)	2.475 (62.87)	MB100K-X-ND	31.13	57.81	128.97	222.36	

* Cable available on xxx foot roll

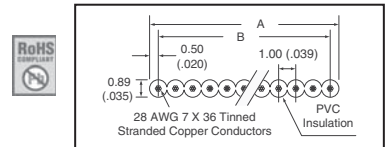
Round Conductor Flat Cable – 3625 Series

UL File No.: E42769
AWM Style No.: 2651

PHYSICAL: • 1.0mm pitch • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray

ELECTRICAL: • Voltage Rating: USA: 300V; Canada: 300V; EU: <50V • Insulation Resistance: >1 x 10¹⁰/10 feet

ENVIRONMENTAL: • Temperature Rating: -20°C - 105°C



No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Meters				
	A	B		5 M*	10 M*	25 M*	50 M*	100 M*
8	0.315 (8.00)	0.276 (7.00)	MC08L-X-ND	5.96	11.07	24.69	42.56	
14	0.551 (14.00)	0.512 (13.00)	MC14L-X-ND	11.47	21.31	47.53	81.95	
16	0.630 (16.00)	0.591 (15.00)	MC16L-X-ND	13.11	24.35	54.32	93.65	
20	0.787 (20.00)	0.748 (19.00)	MC20L-X-ND	14.90	27.67	61.73	106.43	
22	0.866 (22.00)	0.827 (21.00)	MC22L-X-ND	18.03	33.48	74.69	128.76	
24	0.945 (24.00)	0.906 (23.00)	MC24L-X-ND	19.67	36.53	81.48	140.49	
26	1.024 (26.00)	0.984 (25.00)	MC26L-X-ND	21.30	39.57	88.26	152.18	
30	1.181 (30.00)	1.142 (29.00)	MC30L-X-ND	24.58	45.65	101.84	175.59	
34	1.339 (34.00)	1.299 (33.00)	MC34L-X-ND	27.86	51.74	115.43	199.01	
36	1.417 (36.00)	1.378 (35.00)	MC36L-X-ND	26.82	49.80	111.10	191.55	
40	1.575 (40.00)	1.535 (39.00)	MC40L-X-ND	32.78	60.88	135.80	234.14	

* Cable available on xxx meter roll

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