

— APPLICATION

Electro Cable's aluminum MC Cable can be used to replace wire and conduit in applications such as cable tray, power lighting, service feeders and branch circuits as permitted by the National Electrical Code.

Suitable for use in concealed or exposed installations including environmental air spaces per NEC 300.22 (when unjacketed), and in vertical applications if installed per the requirements of NEC 300.19(A) and 330.30. Suitable for Class I Div 2, Class II Div 2, Class III Div 1 Hazardous Locations. PVC-jacketed MC cable is sunlight resistant and suitable for use in wet locations per NEC 330.10(A)(11).

— PRODUCT FEATURES

- Type MC cable is constructed with 3 or 4 8000 series compact stranded aluminum XHHW-2 conductors cabled with a bare or insulated 8000 series aluminum grounding conductor. A binder identification baring tape is wrapped over the cabled assembly. Aluminum armor is interlocked over the conductor assembly. All insulated conductors are phase identified.

— STANDARDS

- UL 44
- UL 1569
- ASTM B800, B801
- ICEA S-95-658 (NEMA WC 70)
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 330
- Compliant to RoHS, Directive 2011/65/EU

— MC CABLE

Aluminum MC Cable

Cond. Size AWG or MCM	Sub Assembly (O.D.)	Overall Diameter (in)	Weight per 1000 ft. (lbs)	Ampacity (amps) 75° C	Ampacity (amps) 90° C
Three Conductor with Ground					
6-6-6-6	0.57	0.78	237	50	55
4-4-4-6	0.66	0.88	298	65	75
2-2-2-6	0.78	1	411	90	100
1-1-1-4	0.89	1.11	496	100	115
1/0-1/0-1/0-4	0.97	1.19	578	120	135
2/0-2/0-2/0-4	1.06	1.27	678	135	150
3/0-3/0-3/0-4	1.16	1.38	833	155	175
4/0-4/0-4/0-2	1.27	1.59	1089	180	205
250-250-250-2	1.42	1.73	1275	205	230
300-300-300-2	1.51	1.79	1361	230	260
350-350-350-2	1.62	1.94	1653	250	280
400-400-400-1	1.72	2.04	1830	270	305
500-500-500-1	1.88	2.2	2177	310	350
600-600-600-1	2.1	2.4	2608	340	385
750-750-750-1/0	2.3	2.5	3118	385	435
Four Conductor with Ground					
6-6-6-6-6	0.70	0.92	278	40	44
4-4-4-4-6	0.77	1.04	360	52	60
2-2-2-2-6	0.89	1.10	482	72	80
1-1-1-1-4	0.99	1.21	619	80	92
1/0-1/0-1/0-1/0-4	1.08	1.3	727	96	108
2/0-2/0-2/0-2/0-4	1.18	1.4	858	108	120
3/0-3/0-3/0-3/0-4	1.3	1.61	1138	124	140
4/0-4/0-4/0-4/0-2	1.42	1.74	1374	144	164
250-250-250-250-1	1.58	1.9	1634	164	184
300-300-300-300-1	1.70	1.99	1722	184	208
350-350-350-350-1/0	1.82	2.13	1969	200	224
400-400-400-400-1/0	1.91	2.20	2189	216	244
500-500-500-500-2/0	2.11	2.35	2653	248	280
500-500-500-500-250	2.30	2.61	2822	248	280
600-600-600-600-2/0	2.35	2.67	3177	272	308
600-600-600-600-400	2.62	2.94	3494	272	308
750-750-750-750-3/0	2.60	2.86	3858	308	348

Ampacities shown are based on the National Electrical Code (NFPA 70) Table 310.16. Ampacities have been adjusted for more than three current-carrying conductors.

Standard lengths are subject to normal manufacturing tolerance of +/- 10%

Other ground sizes are available upon request. MC cables in parallel must have a ground size meeting the minimum size specified in NEC Table 250.122 based on the rating or setting of the over-current protection device. Cables with undersized grounds will not meet code and are subject to rejection by the electrical inspector. Where necessary to comply with NEC 250.4(A)(5) or (B)(4), larger ground sizes may be required.

Image shows standard colors and bare ground. Green insulated ground and alternate phase insulation colors are available, e.g. high voltage colors (Brown/Orange/Yellow/Gray), upon request.

Specifications may be revised without prior notice. Contact Electro Cable to verify current availability and lead times.