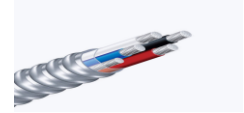




Aluminum Conductor – Aluminum MC Cable 600V Insulated Ground / Jacketed



Standard:

- UL 44, 83, 1569 for Type MC Cable for CT Use
- NEMA WC-70/ICEA S-95-658
- IEEE 1202 70,000 BTU/HR Vertical Tray Flame Test
- ASTM B800 & B801
- NEC 518.4, NEC 520.5, NEC 645.5, and NEC 300.22 for environmental air-handling spaces

Application:

MC Cable is suitable for use as follows: Branch, feeder and service power distribution in commercial, industrial, and multi-residential buildings, power, lighting, control and signal circuits. Suitable for use in cable trays, approved raceways, concealed or exposed installations, environmental air-handling spaces, risers, as well as hazardous locations as permitted in articles 501,502,503 and 504.

MC Cable with Jacket is suitable for use outdoors, in wet locations, direct burial, encased in concrete, exterior/interior temporary power, as aerial cable on a messenger and hazardous locations.

Insulation:

Color coded cross-linked polyethylene XHHW-2 AA-8000 XLP insulation. A binder tape is wrapped over the insulated conductors' assembly

Ground Wire:

Green XLPE Insulated

Conductors:

Compact strand 8000 series aluminum alloy conductors

Armor:

Overall aluminum interlocked armor

Jacket:

Overall black polyvinyl chloride (PVC) jacket, which is heat, moisture and sunlight resistant

240 V Color Code

Cond. Num.	Color
3	Black,White, Red
4	Black,White, Red,Blue

480 V System Color Code

Cond. Num.	Color
3	Brown,Orange,Yellow
4	Brown,Orange,Yellow,Grey

Cable Code	Conductor Size	Number of Conductor	Ground Size		Insulation Thickness		Jacket Thickness		Diameter over Armor		Diameter over Jacket		Net Weight lbs/kft	Ampacity at	
	AWG/kcmil		AWG/kcmil	inches	mm	inches	mm	inches	mm	inches	mm	75°C amps		90°C amps	
6/3 MC Cable w/ Ground, Alum Conductors	6	3	6	0.045	1.14	0.050	1.27	0.96	24.38	1.06	26.92	403	50	55	
6/4 MC Cable w/ Ground, Alum Conductors	6	4	6	0.045	1.14	0.050	1.27	1.04	26.42	1.14	28.96	460	50	55	
4/3 MC Cable w/ Ground, Alum Conductors	4	3	6	0.045	1.14	0.050	1.27	1.04	26.42	1.14	28.96	481	65	75	
4/4 MC Cable w/ Ground, Alum Conductors	4	4	6	0.045	1.14	0.050	1.27	1.13	28.70	1.24	31.50	560	65	75	
2/3 MC Cable w/ Ground, Alum Conductors	2	3	6	0.045	1.14	0.050	1.27	1.14	28.96	1.25	31.75	593	90	100	
2/4 MC Cable w/ Ground, Alum Conductors	2	4	6	0.045	1.14	0.050	1.27	1.25	31.75	1.36	34.54	704	90	100	
1/3 MC Cable w/ Ground, Alum Conductors	1	3	4	0.055	1.40	0.050	1.27	1.26	32.00	1.37	34.80	724	100	115	
1/4 MC Cable w/ Ground, Alum Conductors	1	4	4	0.055	1.40	0.050	1.27	1.39	35.31	1.49	37.85	864	100	115	
1-0/3 MC Cable w/ Ground, Alum Conductors	1/0	3	4	0.055	1.40	0.050	1.27	1.33	33.78	1.43	36.32	814	120	135	
1-0/4 MC Cable w/ Ground, Alum Conductors	1/0	4	4	0.055	1.40	0.050	1.27	1.47	37.34	1.57	39.88	981	120	135	
2-0/3 MC Cable w/ Ground, Alum Conductors	2/0	3	4	0.055	1.40	0.050	1.27	1.42	36.07	1.52	38.61	930	135	150	
2-0/4 MC Cable w/ Ground, Alum Conductors	2/0	4	4	0.055	1.40	0.060	1.52	1.56	39.62	1.68	42.67	1,159	135	150	
3-0/3 MC Cable w/ Ground, Alum Conductors	3/0	3	4	0.055	1.40	0.050	1.27	1.52	38.61	1.63	41.40	1,141	155	175	
3-0/4 MC Cable w/ Ground, Alum Conductors	3/0	4	4	0.055	1.40	0.060	1.52	1.67	42.42	1.79	45.47	1,339	155	175	
4-0/3 MC Cable w/ Ground, Alum Conductors	4/0	3	2	0.055	1.40	0.060	1.52	1.64	41.66	1.77	44.96	1,307	180	205	
4-0/4 MC Cable w/ Ground, Alum Conductors	4/0	4	2	0.055	1.40	0.060	1.52	1.82	46.23	1.95	49.53	1,642	180	205	
250/3 MC Cable w/ Ground, Alum Conductors	250	3	2	0.065	1.65	0.060	1.52	1.79	45.47	1.91	48.51	1,508	205	230	
250/4 MC Cable w/ Ground, Alum Conductors	250	4	1	0.065	1.65	0.060	1.52	1.98	50.29	2.11	53.59	1,926	205	230	
300/3 MC Cable w/ Ground, Alum Conductors	300	3	2	0.065	1.65	0.060	1.52	1.92	48.77	2.05	52.07	1,745	230	260	
300/4 MC Cable w/ Ground, Alum Conductors	300	4	1	0.065	1.65	0.060	1.52	2.11	53.59	2.24	56.90	2,173	230	260	
350/3 MC Cable w/ Ground, Alum Conductors	350	3	2	0.065	1.65	0.060	1.52	2.02	51.31	2.15	54.61	1,935	250	280	
350/4 MC Cable w/ Ground, Alum Conductors	350	4	1/0	0.065	1.65	0.060	1.52	2.22	56.39	2.35	59.69	2,441	250	280	
400/3 MC Cable w/ Ground, Alum Conductors	400	3	1	0.065	1.65	0.060	1.52	2.12	53.85	2.25	57.15	2,153	270	305	
400/4 MC Cable w/ 3-0Ground, Alum Conductors	400	4	3/0	0.065	1.65	0.075	1.91	2.33	59.18	2.52	64.01	2,839	270	305	
400/4 MC Cable w/350 Ground, Alum Conductors	400	4	350	0.065	1.65	0.075	1.91	2.48	62.99	2.64	67.06	3,082	270	305	
500/3 MC Cable w/ Ground, Alum Conductors	500	3	1	0.065	1.65	0.075	1.91	2.29	58.17	2.45	62.23	2,587	310	350	
500/3 MC Cable w/2-0 Ground, Alum Conductors	500	3	2/0	0.065	1.65	0.075	1.91	2.29	58.17	2.45	62.23	2,64	310	350	
500/3 MC Cable w/ 3-0 Ground, Alum Conductors	500	3	3/0	0.065	1.65	0.075	1.91	2.49	63.25	2.55	64.77	2,82	310	350	
500/4 MC Cable w/ Ground, Alum Conductors	500	4	2/0	0.065	1.65	0.075	1.91	2.53	64.26	2.68	68.07	3,268	310	350	
500/4 MC Cable w/ 4-0 Ground, Alum Conductors	500	4	4/0	0.065	1.65	0.075	1.91	2.56	65.02	2.72	69.09	3,363	310	350	
500/4 MC Cable w/ 250 Ground, Alum Conductors	500	4	250	0.065	1.65	0.075	1.91	2.58	65.53	2.74	69.60	3,427	310	350	
600/3 MC Cable w/ Ground, Alum Conductors	600	3	1	0.080	2.03	0.075	1.91	2.53	64.26	2.69	68.33	2,888	340	385	
600/4 MC Cable w/ 3-0 Ground, Alum Conductors	600	4	3/0	0.080	2.03	0.075	1.91	2.8	71.12	2.95	74.93	3,328	340	385	
600/4 MC Cable w/ 400 Ground, Alum Conductors	600	4	400	0.080	2.03	0.085	2.16	3.1	78.74	3.28	83.31	3,987	340	385	
750/3 MC Cable w/ Ground, Alum Conductors	750	3	1/0	0.080	2.03	0.075	1.91	2.75	69.85	2.90	73.66	3,423	385	435	
750/4 MC Cable w/ Ground, Alum Conductors	750	4	3/0	0.080	2.03	0.085	2.16	2.8	71.12	2.98	75.69	4,441	385	435	
900/4 MC Cable w/3-0 Ground, Alum Conductors	900	4	3/0	0.080	2.03	0.085	2.16	3.24	82.30	3.42	86.87	5,355	425	480	
900/3 MC Cable w/500 Ground, Alum Conductors	900	3	500	0.080	2.03	0.075	1.91	3.00	76.20	3.18	80.77	4,641	425	480	

All values are nominal and subject to correction.

**Ampacities are based on NEC Table 310.15(B)(16), and show the allowable Ampacities of three current carrying insulated conductors, in a raceway, cable, or earth based on ambient temperature of 30°C (86°F).