



Aluminum Conductor – Aluminum MC Cable 600V Insulated Ground



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.

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 XLP Insulated

Conductors:

Compact strand 8000 series aluminum alloy conductors

Armor:

Overall aluminum interlocked armor

Color Code :

240 V System

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

480 V System

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

Cable Code	Conductor Size	Number of Conductor	Ground Size	Insulation Thickness		Diameter over Armor		Net Weight lbs/kft	Ampacity at 75°C amps	Ampacity at 90°C amps
	AWG/kcmil		AWG/kcmil	inches	mm	inches	mm			
6/3 MC Cable w/ Ground, Alum Conductors	6	3	6	0,045	1,14	0,96	24,38	300	50	55
6/4 MC Cable w/ Ground, Alum Conductors	6	4	6	0,045	1,14	1,04	26,42	349	50	55
4/3 MC Cable w/ Ground, Alum Conductors	4	3	6	0,045	1,14	1,04	26,42	370	65	75
4/4 MC Cable w/ Ground, Alum Conductors	4	4	6	0,045	1,14	1,13	28,70	439	65	75
2/3 MC Cable w/ Ground, Alum Conductors	2	3	6	0,045	1,14	1,14	28,96	472	90	100
2/4 MC Cable w/ Ground, Alum Conductors	2	4	6	0,045	1,14	1,25	31,75	571	90	100
1/3 MC Cable w/ Ground, Alum Conductors	1	3	4	0,055	1,40	1,26	32,00	590	100	115
1/4 MC Cable w/ Ground, Alum Conductors	1	4	4	0,055	1,40	1,39	35,31	711	100	115
1-0/3 MC Cable w/ Ground, Alum Conductors	1/0	3	4	0,055	1,40	1,33	33,78	674	120	135
1-0/4 MC Cable w/ Ground, Alum Conductors	1/0	4	4	0,055	1,40	1,47	37,34	825	120	135
2-0/3 MC Cable w/ Ground, Alum Conductors	2/0	3	4	0,055	1,40	1,47	37,34	781	135	150
2-0/4 MC Cable w/ Ground, Alum Conductors	2/0	4	4	0,055	1,40	1,56	39,62	961	135	150
3-0/3 MC Cable w/ Ground, Alum Conductors	3/0	3	4	0,055	1,40	1,52	38,61	910	155	175
3-0/4 MC Cable w/ Ground, Alum Conductors	3/0	4	4	0,055	1,40	1,67	42,42	1,127	155	175
4-0/3 MC Cable w/ Ground, Alum Conductors	4/0	3	2	0,055	1,40	1,64	41,66	1,099	180	205
4-0/4 MC Cable w/ Ground, Alum Conductors	4/0	4	2	0,055	1,40	1,82	46,23	1,408	180	205
250/3 MC Cable w/ Ground, Alum Conductors	250	3	2	0,065	1,65	1,79	45,47	1,283	205	230
250/4 MC Cable w/ Ground, Alum Conductors	250	4	1	0,065	1,65	1,98	50,29	1,670	205	230
300/3 MC Cable w/ Ground, Alum Conductors	300	3	2	0,065	1,65	1,92	48,77	1,503	230	260
300/4 MC Cable w/ Ground, Alum Conductors	300	4	1	0,065	1,65	2,11	53,59	1,902	230	260
350/3 MC Cable w/ Ground, Alum Conductors	350	3	2	0,065	1,65	2,02	51,31	1,681	250	280
350/4 MC Cable w/ 1-0 Ground, Alum Conductors	350	4	1/0	0,065	1,65	2,22	56,39	2,157	250	280
400/3 MC Cable w/ Ground, Alum Conductors	400	3	1	0,065	1,65	2,12	53,85	1,887	270	305
400/4 MC Cable w/ Ground, Alum Conductors	400	4	3/0	0,065	1,65	2,37	60,20	2,459	270	305
400/4 MC Cable w/350 Ground, Alum Conductors	400	4	350	0,065	1,65	2,48	62,99	2,685	270	305
500/3 MC Cable w/ Ground, Alum Conductors	500	3	1	0,065	1,65	2,29	58,17	2,226	310	350
500/3 MC Cable w/2-0 Ground, Alum Conductors	500	3	2/0	0,065	1,65	2,29	58,17	2,279	310	350
500/3 MC Cable w/3-0 Ground, Alum Conductors	500	3	3/0	0,065	1,65	2,49	63,25	2,45	310	350
500/4 MC Cable w/2-0 Ground, Alum Conductors	500	4	2/0	0,065	1,65	2,53	64,26	2,863	310	350
500/4 MC Cable w/ 4-0 Ground, Alum Conductors	500	4	4/0	0,065	1,65	2,56	65,02	2,953	310	350
500/4 MC Cable w/ 250 Ground, Alum Conductors	500	4	250	0,065	1,65	2,58	65,53	3,011	310	350
600/3 MC Cable w/ Ground, Alum Conductors	600	3	1	0,080	2,03	2,53	64,26	2,652	340	385
600/4 MC Cable w/ 3-0 Ground, Alum Conductors	600	4	3/0	0,080	2,03	2,80	71,12	3,453	340	385
600/4 MC Cable w/ 400 Ground, Alum Conductors	600	4	400	0,080	2,03	3,10	78,74	3,823	340	385
750/3 MC Cable w/ 1-0 Ground, Alum Conductors	750	3	1/0	0,080	2,03	2,75	69,85	3,18	385	435
750/4 MC Cable w/ 3-0 Ground, Alum Conductors	750	4	3/0	0,080	2,03	2,80	71,12	4,113	385	435
900/4 MC Cable w/3-0Ground, Alum Conductors	900	4	500	0,080	2,03	3,24	82,30	4,764	425	480
900/3 MC Cable w/500 Ground, Alum Conductors	900	3	500	0,080	2,03	3,00	76,20	4,107	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).