

# Aluminum Conductor – Aluminum MC Cable 600V Insulated Ground



## APPLICATION:

Priority Wire & Cable's aluminum conductor 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.

**NOTE:** Priority Wire & Cable's aluminum conductor MC Cable is suitable for use in vertical applications, if installed per the requirements of the NEC as detailed in section 300-19, table 300-19(a) and section 330.30.

## CONDUCTORS:

- Compact strand 8000 series aluminum alloy conductors

## 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

## ARMOR:

- Overall aluminum interlocked armor

## STANDARDS:

- 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

## COLOR CODE:

### 240V System

Cond #	Color
3C	Black - White - Red
4C	Black - White - Red - Blue
Ground	Green

### 480V System

Cond #	Color
3C	Brown - Orange - Yellow
4C	Brown - Orange - Yellow - Grey
Ground	Green

Part Number	Conductor Size	No. of Cond.	Ground Size	Insulation Thickness	Diameter Over Armor	Net Weight	Ampacity**	
	AWG/kcmil		AWG/kcmil				at 75°C	at 90°C
6-03GALUM-I-MC	6	3	6	0.045	0.96	300	50	55
6-04GALUM-I-MC	6	4	6	0.045	1.04	349	50	55
4-03GALUM-R-I-MC	4	3	6	0.045	1.04	370	65	75
4-04GALUM-R-I-MC	4	4	6	0.045	1.13	439	65	75
2-03GALUM-R-I-MC	2	3	6	0.045	1.14	472	90	100
2-04GALUM-R-I-MC	2	4	6	0.045	1.25	571	90	100
1-03GALUM-R-I-MC	1	3	4	0.055	1.26	590	100	115
1-04GALUM-R-I-MC	1	4	4	0.055	1.39	711	100	115
1/0-03GALUM-R-I-MC	1/0	3	4	0.055	1.33	674	120	135
1/0-04GALUM-R-I-MC	1/0	4	4	0.055	1.47	825	120	135
2/0-03GALUM-R-I-MC	2/0	3	4	0.055	1.42	781	135	150



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Part Number	Conductor Size	No. of Cond.	Ground Size	Insulation Thickness	Diameter Over Armor	Net Weight lbs/kft	Ampacity**	
	AWG/kcmil		AWG/kcmil	inches	inches		at 75°C	at 90°C
2/0-04GALUM-R-I-MC	2/0	4	4	0.055	1.56	961	135	150
3/0-03GALUM-R-I-MC	3/0	3	4	0.055	1.52	910	155	175
3/0-04GALUM-R-I-MC	3/0	4	4	0.055	1.67	1,127	155	175
4/0-03GALUM-R-I-MC	4/0	3	2	0.055	1.64	1,099	180	205
4/0-04GALUM-R-I-MC	4/0	4	2	0.055	1.82	1,408	180	205
250-03GALUM-R-I-MC	250	3	2	0.065	1.79	1,283	205	230
250-04GALUM-R-I-MC	250	4	1	0.065	1.98	1,670	205	230
300-03GALUM-R-I-MC	300	3	2	0.065	1.92	1,503	230	260
300-04GALUM-R-I-MC	300	4	1	0.065	2.11	1,902	230	260
350-03GALUM-R-I-MC	350	3	2	0.065	2.02	1,681	250	280
350-04GALUM-R-I-MC	350	4	1/0	0.065	2.22	2,157	250	280
400-03GALUM-R-I-MC	400	3	1	0.065	2.12	1,887	270	305
400-04GALUM-R-I-MC-3/0	400	4	3/0	0.065	2.37	2,459	270	305
400-04GALUM-R-I-MC-350	400	4	350	0.065	2.48	2,685	270	305
500-03GALUM-R-I-MC	500	3	1	0.065	2.29	2,226	310	350
500-03GALUM-R-I-MC-2/0	500	3	2/0	0.065	2.29	2,279	310	350
500-03GALUM-R-I-MC-3/0	500	3	3/0	0.065	2.49	2,450	310	350
500-04GALUM-R-I-MC	500	4	2/0	0.065	2.53	2,863	310	350
500-04GALUM-R-I-MC-4/0	500	4	4/0	0.065	2.56	2,953	310	350
500-04GALUM-R-I-MC-250	500	4	250	0.065	2.58	3,011	310	350
600-03GALUM-R-I-MC	600	3	1	0.080	2.53	2,652	340	385
600-04GALUM-R-I-MC	600	4	3/0	0.080	2.80	3,453	340	385
600-04GALUM-R-I-MC-400	600	4	400	0.080	3.10	3,823	340	385
750-03GALUM-R-I-MC	750	3	1/0	0.080	2.75	3,180	385	435
750-04GALUM-R-I-MC	750	4	3/0	0.080	2.80	4,113	385	435
900-04GALUM-R-I-MC	900	4	3/0	0.080	3.24	4,764	425	480
900-03GALUM-R-I-MC	900	3	500	0.080	3.00	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).



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