

# Aluminum Conductor – Aluminum MC Cable 600V Bare Ground / Jacketed



## 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.

Priority Wire & Cable's aluminum conductor 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.

**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:

- Bare

## ARMOR:

- Overall aluminum interlocked armor

## JACKET:

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

## 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

### 480V System

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

Part Number	Conductor Size	No. of Cond.	Ground Size	Insulation Thickness	Jacket Thickness	Diameter Over Armor	Diameter Over Jacket	Net Weight	Ampacity**
	AWG/kcmil		AWG/kcmil	inches	inches	inches	inches	lbs/kft	at 90°C
6-03GALUM-MC-JKT	6	3	6	0.045	0.050	0.91	1.01	356	55
6-04GALUM-MC-JKT	6	4	6	0.045	0.050	0.98	1.09	418	55
4-03GALUM-R-MC-JKT	4	3	6	0.045	0.050	1.01	1.11	436	75
4-04GALUM-R-MC-JKT	4	4	6	0.045	0.050	1.09	1.19	517	75
2-03GALUM-R-MC-JKT	2	3	6	0.045	0.050	1.13	1.23	550	100
2-04GALUM-R-MC-JKT	2	4	6	0.045	0.050	1.23	1.33	662	100
1-03GALUM-R-MC-JKT	1	3	4	0.055	0.050	1.25	1.35	671	115
1-04GALUM-R-MC-JKT	1	4	4	0.055	0.050	1.36	1.46	811	115
1/0-03GALUM-R-MC-JKT	1/0	3	4	0.055	0.050	1.33	1.43	764	135
1/0-04GALUM-R-MC-JKT	1/0	4	4	0.055	0.050	1.45	1.55	930	135
2/0-03GALUM-R-MC-JKT	2/0	3	4	0.055	0.050	1.42	1.52	875	150



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	AWG/kcmil		AWG/kcmil	inches	inches	inches	inches	lbs/kft	at 90°C
2/0-04GALUM-R-MC-JKT	2/0	4	4	0.055	0.060	1.55	1.68	1,104	150
3/0-03GALUM-R-MC-JKT	3/0	3	4	0.055	0.050	1.52	1.63	1,042	175
3/0-04GALUM-R-MC-JKT	3/0	4	4	0.055	0.060	1.67	1.79	1,282	175
4/0-03GALUM-R-MC-JKT	4/0	3	2	0.055	0.060	1.64	1.77	1,233	205
4/0-04GALUM-R-MC-JKT	4/0	4	2	0.055	0.060	1.82	1.95	1,568	205
250-03GALUM-R-MC-JKT	250	3	2	0.065	0.060	1.79	1.91	1,410	230
250-04GALUM-R-MC-JKT	250	4	1	0.065	0.060	1.98	2.11	1,836	230
300-03GALUM-R-MC-JKT	300	3	2	0.065	0.060	1.92	2.05	1,644	260
300-04GALUM-R-MC-JKT	300	4	1	0.065	0.060	2.11	2.24	2,065	260
350-03GALUM-R-MC-JKT	350	3	2	0.065	0.060	2.02	2.15	1,826	280
350-03GALUM-R-MC-1/0-JKT	350	3	1/0	0.065	0.060	2.02	2.15	1,960	280
350-04GALUM-R-MC-JKT	350	4	1/0	0.065	0.060	2.22	2.35	2,391	280
400-03GALUM-R-MC-JKT	400	3	1	0.065	0.060	2.12	2.25	2,022	305
400-03GALUM-R-MC-2/0-JKT	400	3	2/0	0.065	0.060	2.12	2.25	2,175	305
400-04GALUM-R-MC-JKT	400	4	1/0	0.065	0.075	2.33	2.49	2,926	305
400-04GALUM-R-MC-3/0-JKT	400	4	3/0	0.065	0.075	2.33	2.49	2,812	305
400-04GALUM-R-MC-350-JKT	400	4	350	0.065	0.075	2.48	2.64	3,197	305
500-03GALUM-R-MC-JKT	500	3	1	0.065	0.075	2.29	2.45	2,441	350
500-03GALUM-R-MC-2/0-JKT	500	3	2/0	0.065	0.075	2.26	2.41	2,646	350
500-03GALUM-R-MC-250-JKT	500	3	250	0.065	0.075	2.29	2.45	2,726	350
500-04GALUM-R-MC-JKT	500	4	2/0	0.065	0.075	2.53	2.68	3,110	350
500-04GALUM-R-MC-4/0-JKT	500	4	4/0	0.065	0.075	2.53	2.68	3,336	350
500-04GALUM-R-MC-250-JKT	500	4	250	0.065	0.075	2.53	2.68	3,384	350
600-03GALUM-R-MC-JKT	600	3	1	0.080	0.075	2.53	2.69	2,888	385
600-03GALUM-R-MC-400-JKT	600	3	400	0.080	0.075	2.53	2.69	3,328	385
600-04GALUM-R-MC-JKT	600	4	2/0	0.080	0.075	2.80	2.95	3,707	385
600-04GALUM-R-MC-400-JKT	600	4	400	0.080	0.085	2.80	2.98	3,987	385
750-03GALUM-R-MC-JKT	750	3	1/0	0.080	0.075	2.75	2.90	3,423	435
750-03GALUM-R-MC-3/0-JKT	750	3	3/0	0.080	0.075	2.75	2.90	3,646	435
750-03GALUM-R-MC-750-JKT	750	3	750	0.080	0.075	2.86	3.01	4,238	435
750-04GALUM-R-MC-JKT	750	4	3/0	0.080	0.085	3.04	3.22	4,441	435
750-04GALUM-R-MC-350-JKT	750	4	350	0.080	0.085	3.04	3.22	4,562	435
750-04GALUM-R-MC-400-JKT	750	4	400	0.080	0.085	3.04	3.22	4,624	435
750-04GALUM-R-MC-600-JKT	750	4	600	0.080	0.085	3.13	3.30	4,835	435
750-04GALUM-R-MC-750-JKT	750	4	750	0.080	0.085	3.18	3.36	5,016	435
900-03GALUM-R-MC-JKT	900	3	500	0.080	0.075	2.95	3.11	4,287	480

All values are nominal and subject to correction.

\*\*Ampacities are based on NEC Table 310.15, and show the allowable Ampacities of insulated conductors, not more than 3 current carrying conductors in a raceway, cable, or earth.



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