

Aluminum Conductor – Aluminum MC Cable 600V Insulated 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:

- Green XLP insulated

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
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	Jacket Thickness	Diameter Over Armor	Diameter Over Jacket	Net Weight	Ampacity**	
	AWG/kcmil		AWG/kcmil						inches	inches
6-03GALUM-I-MC-JKT	6	3	6	0.045	0.050	0.96	1.06	403	50	55
6-04GALUM-I-MC-JKT	6	4	6	0.045	0.050	1.04	1.14	460	50	55
4-03GALUM-R-I-MC-JKT	4	3	6	0.045	0.050	1.04	1.14	481	65	75
4-04GALUM-R-I-MC-JKT	4	4	6	0.045	0.050	1.13	1.24	560	65	75
2-03GALUM-R-I-MC-JKT	2	3	6	0.045	0.050	1.14	1.25	593	90	100
2-04GALUM-R-I-MC-JKT	2	4	6	0.045	0.050	1.25	1.36	704	90	100
1-03GALUM-R-I-MC-JKT	1	3	4	0.055	0.050	1.26	1.37	724	100	115
1-04GALUM-R-I-MC-JKT	1	4	4	0.055	0.050	1.39	1.49	864	100	115



1-800-945-5542
www.PriorityWire.com



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



Part Number	Conductor Size	No. of Cond.	Ground Size	Insulation Thickness	Jacket Thickness	Diameter Over Armor	Diameter Over Jacket	Net Weight lbs/kft	Ampacity**	
	AWG/kcmil		AWG/kcmil	inches	inches	inches	inches		at 75°C	at 90°C
1/0-03GALUM-R-I-MC-JKT	1/0	3	4	0.055	0.050	1.33	1.43	814	120	135
1/0-04GALUM-R-I-MC-JKT	1/0	4	4	0.055	0.050	1.47	1.57	981	120	135
2/0-03GALUM-R-I-MC-JKT	2/0	3	4	0.055	0.050	1.42	1.52	930	135	150
2/0-04GALUM-R-I-MC-JKT	2/0	4	4	0.055	0.060	1.56	1.68	1,159	135	150
3/0-03GALUM-R-I-MC-JKT	3/0	3	4	0.055	0.050	1.52	1.63	1,141	155	175
3/0-04GALUM-R-I-MC-JKT	3/0	4	4	0.055	0.060	1.67	1.79	1,339	155	175
4/0-03GALUM-R-I-MC-JKT	4/0	3	2	0.055	0.060	1.64	1.77	1,307	180	205
4/0-04GALUM-R-I-MC-JKT	4/0	4	2	0.055	0.060	1.82	1.95	1,642	180	205
250-03GALUM-R-I-MC-JKT	250	3	2	0.065	0.060	1.79	1.91	508	205	230
250-04GALUM-R-I-MC-JKT	250	4	1	0.065	0.060	1.98	2.11	1,926	205	230
300-03GALUM-R-I-MC-JKT	300	3	2	0.065	0.060	1.92	2.05	1,745	230	260
300-04GALUM-R-I-MC-JKT	300	4	1	0.065	0.060	2.11	2.24	2,173	230	260
350-03GALUM-R-I-MC-JKT	350	3	2	0.065	0.060	2.02	2.15	1,935	250	280
350-04GALUM-R-I-MC-JKT	350	4	1/0	0.065	0.060	2.22	2.35	2,441	250	280
400-03GALUM-R-I-MC-JKT	400	3	1	0.065	0.060	2.12	2.25	2,153	270	305
400-04GALUM-R-I-MC-3/0-JKT	400	4	3/0	0.065	0.075	2.37	2.52	2,839	270	305
400-04GALUM-R-I-MC-350-JKT	400	4	350	0.065	0.075	2.48	2.64	3,082	270	305
500-03GALUM-R-I-MC-JKT	500	3	1	0.065	0.075	2.29	2.45	2,587	310	350
500-03GALUM-R-I-MC-2/0-JKT	500	3	2/0	0.065	0.075	2.29	2.45	2,640	310	350
500-03GALUM-R-I-MC-3/0-JKT	500	3	3/0	0.065	0.075	2.49	2.55	2,820	310	350
500-04GALUM-R-I-MC-JKT	500	4	2/0	0.065	0.075	2.53	2.68	3,268	310	350
500-04GALUM-R-I-MC-4/0-JKT	500	4	4/0	0.065	0.075	2.56	2.72	3,363	310	350
500-04GALUM-R-I-MC-250-JKT	500	4	250	0.065	0.075	2.58	2.74	3,427	310	350
600-03GALUM-R-I-MC-JKT	600	3	1	0.080	0.075	2.53	2.69	3,050	340	385
600-04GALUM-R-I-MC-JKT	600	4	3/0	0.080	0.075	2.80	2.95	3,900	340	385
600-04GALUM-R-I-MC-400-JKT	600	4	400	0.080	0.085	3.10	3.28	4,287	340	385
750-03GALUM-R-I-MC-JKT	750	3	1/0	0.080	0.075	2.75	2.90	3,610	385	435
750-04GALUM-R-I-MC-JKT	750	4	3/0	0.080	0.085	2.80	2.98	4,663	385	435
900-04GALUM-R-I-MC-JKT	900	4	3/0	0.080	0.085	3.24	3.42	5,355	425	480
900-03GALUM-R-I-MC-JKT	900	3	500	0.080	0.075	3.00	3.18	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).



1-800-945-5542
www.PriorityWire.com



©2023 Priority Wire & Cable
03-2023