

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	inches	inches	lbs/kft	at 90°C
6-03GALUM-I-MC	6	3	6	0.045	0.96	332	55
6-04GALUM-I-MC	6	4	6	0.045	1.04	371	55
4-03GALUM-R-I-MC	4	3	6	0.045	1.04	399	75
4-04GALUM-R-I-MC	4	4	6	0.045	1.13	456	75
2-03GALUM-R-I-MC	2	3	6	0.045	1.14	497	100
2-04GALUM-R-I-MC	2	4	6	0.045	1.25	582	100
1-03GALUM-R-I-MC	1	3	4	0.055	1.26	639	115
1-04GALUM-R-I-MC	1	4	4	0.055	1.39	746	115
1/0-03GALUM-R-I-MC	1/0	3	4	0.055	1.33	720	135
1/0-04GALUM-R-I-MC	1/0	4	4	0.055	1.47	852	135
2/0-03GALUM-R-I-MC	2/0	3	4	0.055	1.42	822	150



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	AWG/kcmil		AWG/kcmil	inches	inches	lbs/kft	at 90°C
3/0-03GALUM-R-I-MC	3/0	3	4	0.055	1.52	948	175
3/0-04GALUM-R-I-MC	3/0	4	4	0.055	1.67	1,141	175
4/0-03GALUM-R-I-MC	4/0	3	2	0.055	1.64	1,174	205
4/0-04GALUM-R-I-MC	4/0	4	2	0.055	1.82	1,451	205
250-03GALUM-R-I-MC	250	3	2	0.065	1.79	1,338	230
250-04GALUM-R-I-MC	250	4	1	0.065	1.98	1,730	230
300-03GALUM-R-I-MC	300	3	2	0.065	1.92	1,549	255
300-04GALUM-R-I-MC	300	4	1	0.065	2.11	1,954	255
350-03GALUM-R-I-MC	350	3	2	0.065	2.02	1,719	280
350-04GALUM-R-I-MC	350	4	1/0	0.065	2.22	2,235	280
400-03GALUM-R-I-MC	400	3	1	0.065	2.12	1,944	305
400-04GALUM-R-I-MC-3/0	400	4	3/0	0.065	2.37	2,768	305
400-04GALUM-R-I-MC-350	400	4	350	0.065	2.48	2,800	305
500-03GALUM-R-I-MC	500	3	1	0.065	2.29	2,267	350
500-03GALUM-R-I-MC-2/0	500	3	2/0	0.065	2.29	2,349	350
500-04GALUM-R-I-MC	500	4	2/0	0.065	2.53	2,958	350
500-04GALUM-R-I-MC-4/0	500	4	4/0	0.065	2.56	3,345	350
500-04GALUM-R-I-MC-250	500	4	250	0.065	2.58	3,476	350
600-03GALUM-R-I-MC	600	3	1	0.080	2.53	2,678	385
600-04GALUM-R-I-MC	600	4	3/0	0.080	2.80	3,589	385
600-04GALUM-R-I-MC-400	600	4	400	0.080	3.10	4,347	385
750-03GALUM-R-I-MC	750	3	1/0	0.080	2.75	3,223	435
750-04GALUM-R-I-MC	750	4	3/0	0.080	2.80	4,223	435
900-04GALUM-R-I-MC	900	4	3/0	0.080	3.24	4,876	480
900-03GALUM-R-I-MC	900	3	500	0.080	3.00	4,841	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.



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
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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	inches	inches	lbs/kft	at 90°C
6-03GALUM-I-MC-JKT	6	3	6	0.045	0.050	0.96	1.06	430	55
6-04GALUM-I-MC-JKT	6	4	6	0.045	0.050	1.04	1.14	476	55
4-03GALUM-R-I-MC-JKT	4	3	6	0.045	0.050	1.04	1.14	504	75
4-04GALUM-R-I-MC-JKT	4	4	6	0.045	0.050	1.13	1.24	571	75
2-03GALUM-R-I-MC-JKT	2	3	6	0.045	0.050	1.14	1.25	612	100
2-04GALUM-R-I-MC-JKT	2	4	6	0.045	0.050	1.25	1.36	708	100
1-03GALUM-R-I-MC-JKT	1	3	4	0.055	0.050	1.26	1.37	766	115
1-04GALUM-R-I-MC-JKT	1	4	4	0.055	0.050	1.39	1.49	886	115



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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	Ampacity**
	AWG/kcmil		AWG/kcmil	inches	inches	inches	inches	lbs/kft	at 90°C
1/0-03GALUM-R-I-MC-JKT	1/0	3	4	0.055	0.050	1.33	1.43	854	135
1/0-04GALUM-R-I-MC-JKT	1/0	4	4	0.055	0.050	1.47	1.57	999	135
2/0-03GALUM-R-I-MC-JKT	2/0	3	4	0.055	0.050	1.42	1.52	964	150
2/0-04GALUM-R-I-MC-JKT	2/0	4	4	0.055	0.060	1.56	1.68	1,169	150
3/0-03GALUM-R-I-MC-JKT	3/0	3	4	0.055	0.050	1.52	1.63	1,132	175
3/0-04GALUM-R-I-MC-JKT	3/0	4	4	0.055	0.060	1.67	1.79	1,343	175
4/0-03GALUM-R-I-MC-JKT	4/0	3	2	0.055	0.060	1.64	1.77	1,371	205
4/0-04GALUM-R-I-MC-JKT	4/0	4	2	0.055	0.060	1.82	1.95	1,673	205
250-03GALUM-R-I-MC-JKT	250	3	2	0.065	0.060	1.79	1.91	1,552	230
250-04GALUM-R-I-MC-JKT	250	4	1	0.065	0.060	1.98	2.11	1,972	230
300-03GALUM-R-I-MC-JKT	300	3	2	0.065	0.060	1.92	2.05	1,778	255
300-04GALUM-R-I-MC-JKT	300	4	1	0.065	0.060	2.11	2.24	2,210	255
350-03GALUM-R-I-MC-JKT	350	3	2	0.065	0.060	2.02	2.15	1,960	280
350-04GALUM-R-I-MC-JKT	350	4	1/0	0.065	0.060	2.22	2.35	2,505	280
400-03GALUM-R-I-MC-JKT	400	3	1	0.065	0.060	2.12	2.25	2,197	305
400-04GALUM-R-I-MC-3/0-JKT	400	4	3/0	0.065	0.075	2.37	2.52	3,147	305
400-04GALUM-R-I-MC-350-JKT	400	4	350	0.065	0.075	2.48	2.64	3,197	305
500-03GALUM-R-I-MC-JKT	500	3	1	0.065	0.075	2.29	2.45	2,610	350
500-03GALUM-R-I-MC-2/0-JKT	500	3	2/0	0.065	0.075	2.29	2.45	2,703	350
500-04GALUM-R-I-MC-JKT	500	4	2/0	0.065	0.075	2.53	2.68	3,341	350
500-04GALUM-R-I-MC-4/0-JKT	500	4	4/0	0.065	0.075	2.56	2.72	3,753	350
500-04GALUM-R-I-MC-250-JKT	500	4	250	0.065	0.075	2.58	2.74	3,890	350
600-03GALUM-R-I-MC-JKT	600	3	1	0.080	0.075	2.53	2.69	3,055	385
600-04GALUM-R-I-MC-JKT	600	4	3/0	0.080	0.075	2.80	2.95	4,012	385
600-04GALUM-R-I-MC-400-JKT	600	4	400	0.080	0.085	3.10	3.28	4,786	385
750-03GALUM-R-I-MC-JKT	750	3	1/0	0.080	0.075	2.75	2.90	3,632	435
750-04GALUM-R-I-MC-JKT	750	4	3/0	0.080	0.085	2.80	2.98	4,744	435
900-04GALUM-R-I-MC-JKT	900	4	3/0	0.080	0.085	3.24	3.42	5,483	480
900-03GALUM-R-I-MC-JKT	900	3	500	0.080	0.075	3.00	3.18	5,348	480

All values are nominal and subject to correction.

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