



Specification Sheet

BWC Part Number #: BWC-500-03GALUM-R-I-MC-2/0-JKT

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

Application

This aluminum conductor MC Cable is suitable for branch, feeder, and service power distribution in commercial, industrial, and multi-residential buildings. It can be used for power, lighting, control, and signal circuits. The cable is suitable for installation in cable trays, approved raceways, environmental air-handling spaces, risers, and may be installed concealed or exposed. It is permitted for use in hazardous locations as detailed in NEC articles 501, 502, 503, and 504.

The jacketed version is suitable for outdoor use, in wet locations, direct burial, encased in concrete, as an aerial cable on a messenger, and in hazardous locations.

Note: This cable is suitable for vertical applications if installed per the requirements of NEC section 300-19 and table 300-19(a).

Construction

- **Conductors:** Compact strand 8000 series aluminum alloy conductors.
- **Insulation:** Color-coded cross-linked polyethylene (XLP) XHHW-2 AA-8000 insulation. A binder tape is wrapped over the insulated conductors' assembly.
- **Ground Wire:** Green XLP insulated ground wire.
- **Aarmor:** Overall aluminum interlocked armor.
- **Jacket:** An overall black polyvinyl chloride (PVC) jacket provides heat, moisture, and sunlight resistance.
- **Color Code:**
 - 240V System
 - 3-Conductor: Black, White, Red
 - 4-Conductor: Black, White, Red, Blue
 - Ground: Green
 - 480V System
 - 3-Conductor: Brown, Orange, Yellow
 - 4-Conductor: Brown, Orange, Yellow, Grey
 - Ground: Green

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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 300.22, 518.4, 520.5, and 645.5 for environmental air-handling spaces

Part Number	Conductor Size AWG/MCM	No. of Cond	Ground Size AWG/MCM	Insulation Thickness (inches)	Jacket Thickness (inches)	Diameter Over Armor (inches)	Diameter Over Jacket (inches)	Net Weight (lbs/kft)	Ampacity at 75°C	Ampacity at 90°C
6-03GALUM-I-MC-JKT	6	3	6	0.045	0.05	0.96	1.06	403	50	55
6-04GALUM-I-MC-JKT	6	4	6	0.045	0.05	1.04	1.14	460	50	55
4-03GALUM-R-I-MC-JKT	4	3	6	0.045	0.05	1.04	1.14	481	65	75
4-04GALUM-R-I-MC-JKT	4	4	6	0.045	0.05	1.13	1.24	560	65	75
2-03GALUM-R-I-MC-JKT	2	3	6	0.045	0.05	1.14	1.25	593	90	100
2-04GALUM-R-I-MC-JKT	2	4	6	0.045	0.05	1.25	1.36	704	90	100
1-03GALUM-R-I-MC-JKT	1	3	4	0.055	0.05	1.26	1.37	724	100	115
1-04GALUM-R-I-MC-JKT	1	4	4	0.055	0.05	1.39	1.49	864	100	115





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1/0-03GALUM-R-I-MC-JKT	1/0	3	4	0.055	0.05	1.33	1.43	814	120	135
1/10-04GALUM-R-I-MC-JKT	1/0	4	4	0.055	0.05	1.47	1.57	981	120	135
1/20-03GALUM-R-I-MC-JKT	2/0	3	4	0.055	0.05	1.42	1.52	930	135	150
2/0-04GALUM-R-I-MC-JKT	2/0	4	4	0.055	0.06	1.56	1.68	1,159	135	150
3/0-03GALUM-R-I-MC-JKT	3/0	3	4	0.055	0.05	1.52	1.63	1,141	155	175
3/0-04GALUM-R-I-MC-JKT	3/0	4	4	0.055	0.06	1.67	1.79	1,339	155	175
4/0-03GALUM-R-I-MC-JKT	4/0	3	2	0.055	0.06	1.64	1.77	1,307	180	205
4/0-04GALUM-R-I-MC-JKT	4/0	4	2	0.055	0.06	1.82	1.95	1,642	180	205
250-03GALUM-R-I-MC-JKT	250	3	2	0.065	0.06	1.79	1.91	508	205	230

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250-04GALUM-R-I-MC-JKT	250	4	1	0.065	0.06	1.98	2.11	1,926	205	230
300-03GALUM-R-I-MC-JKT	300	3	2	0.065	0.06	1.92	2.05	1,745	230	260
300-04GALUM-R-I-MC-JKT	300	4	1	0.065	0.06	2.11	2.24	2,173	230	260
350-03GALUM-R-I-MC-JKT	350	3	2	0.065	0.06	2.02	2.15	1,935	250	280
350-04GALUM-R-I-MC-JKT	350	4	1/0	0.065	0.06	2.22	2.35	2,441	250	280
400-03GALUM-R-I-MC-JKT	400	3	1	0.065	0.06	2.12	2.25	2,153	270	305
400-04GALUMR--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

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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	0.08	0.075	2.53	2.69	3,050	340	385
600-04GALUM-R-I-MC-JKT	600	4	3/0	0.08	0.075	2.8	2.95	3,900	340	385
600-04GALUM-R-I-MC-400-JKT	600	4	400	0.08	0.085	3.1	3.28	4,287	340	385
750-03GALUM-R-I-MC-JKT	750	3	1/0	0.08	0.075	2.75	2.9	3,610	385	435

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750-04GALUM-R-I-MC-JKT	750	4	3/0	0.08	0.085	2.8	2.98	4,663	385	435
900-04GALUM-R-I-MC-JKT	900	4	3/0	0.08	0.085	3.24	3.42	5,355	425	480
900-03GALUM-R-I-MC-JKT	900	3	500	0.08	0.075	3	3.18	4,641	425	480



ALL SPECIFIED PARAMETERS WITHOUT A TOLERANCE ARE NOMINAL AND SUBJECT TO VERIFICATION. BEST WIRE IS NOT RESPONSIBLE FOR UNKNOWN PERFORMANCE ATTRIBUTES THAT WERE NOT MADE KNOWN TO BEST WIRE AT THE TIME OF DESIGN.

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