



POWER KABEL INC.

TYPE MC ALUMINUM CONDUCTORS 600V

3C & 4C 6 AWG-750 KCMIL ALUMINUM THHN/THWN-2 ALUMINUM ARMORED

APPLICATIONS & FEATURES

Primarily used for services, feeders, and branch circuits as specified in the 2011 National Electric Code. Type MC cable with Type THHN/THWN-2 conductors may be used in wet or dry locations at temperatures not to exceed 90°C. Used for power and lighting indoors, exposed or concealed, in cable tray where identified for such use; in a raceway, or in dry locations and embedded in plaster or against other masonry. Voltage rating for THHN/THWN-2 conductors is 600V.

INDUSTRY COMPLIANCES

- UL 83 for Thermoplastic-Insulated Wires and Cables
 - UL 1569 for Metal-Clad Cables
 - UL 1581 and UL 2556
 - UL Classified 1, 2, and 3 Hr ThrU-Penetration Firestop Systems.
 - IEEE 1202 - Flame Testing of Cables for Use in Cable Tray, in Industrial and Commercial Occupancies (70,000 BTU/hr).
- ICEA T-29-520 -Vertical Cable Tray Flame Tests (210,000 Btu/hr)

ICEA S-66-524 and requirements of the National Electric Code.

ICEA S-95-658 (NEMA WC 70) construction requirements.

Federal Specification J-C-30B

UL Listed

CONSTRUCTION

- CONDUCTORS:** Compact stranded AA-8000 series aluminum conductor per ASTM B800, ASTM B801, ASTM B836, ASTM B901
- INSULATION:** Rated 90°C wet or dry and is flame and sunlight resistant. PVC insulated THHN/THWN-2
- GROUND:** Uninsulated bare aluminum
- ASSEMBLY:** A binder tape is wrapped over the conductors with interlocked aluminum armor applied over the assembly
- ARMOR:** Aluminum Interlocked Armor (AIA)

AWG/No OF CONDUCTORS	STRANDS	INSULATION THICKNESS (INCHES)	NYLON THICKNESS (INCHES)	GROUND (AWG)	OUTSIDE DIAMETER OVER ARMOR (INCHES)	APPROX WEIGHT (LBS/1000 FT)
6/3	19	0.03	0.007	6	0.747	397
6/4	19	0.03	0.007	6	0.812	460
4/3	19	0.04	0.007	6	0.89	524
4/4	19	0.04	0.007	6	0.972	617
3/3	19	0.04	0.007	6	0.944	579
3/4	19	0.04	0.007	6	1.072	720
2/3	19	0.04	0.007	4	1.053	705
2/4	19	0.04	0.007	4	1.162	840
1/3	19	0.05	0.007	4	1.174	836
1/4	19	0.05	0.007	4	1.272	993
1/0-3	19	0.05	0.007	4	1.245	905
1/0-4	19	0.05	0.007	4	1.369	1094
2/0-3	19	0.05	0.007	4	1.349	1006
2/0-4	19	0.05	0.007	4	1.469	1,252
3/0-3	19	0.05	0.007	4	1.46	1,190
3/0-4	19	0.05	0.007	4	1.579	1,444
4/0-3	19	0.05	0.007	2	1.572	1,400
4/0-4	19	0.05	0.007	2	1.669	1,715
250/3	37	0.06	0.008	2	1.6967	1,738
250/4	37	0.06	0.008	1	1.922	2,155
300/3	37	0.06	0.008	1	1.8744	1,987
300/4	37	0.06	0.008	1	2.0773	2,442
350/3	37	0.06	0.008	1	2.0436	2,226
350/4	37	0.06	0.008	1/0	2.2383	2,751

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400/3	37	0.06	0.008	1	2.1362	2,427
400/4	37	0.06	0.008	1/0	2.3221	3,000
500/3	37	0.06	0.008	3/0	2.5022	2,990
500/4	37	0.06	0.008	3/0	2.628	3,516
600/3	61	0.07	0.009	1/0	2.6685	3,382
600/4	61	0.07	0.009	3/0	2.7674	4,175
750/3	61	0.07	0.009	1/0	2.728	3,870
750/4	61	0.07	0.009	3/0	2.868	3,996
750/3	61	0.07	0.009	3/0	2.9763	4,890
750/4	61	0.07	0.009	750	3.2012	5,545

All values are nominal and subject to correction.