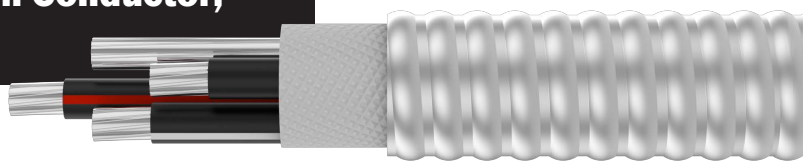
Three or Four Conductor UL Type MC, Aluminum Conductor, THHN / THWN-2, AIA, 90°C Dry, Rated 600 V



APPLICATIONS

UL Type MC cables with THHN / THWN-2 conductors are primarily used for services, feeders and branch circuits in commercial and residential applications in accordance with the NEC. Suitable applications include for indoor power and lighting circuits, exposed or concealed, cable tray, raceway (conduit) and embedded in plaster or in contact with masonry. The cable is suitable for dry locations only at temperatures not to exceed 90°C. The cable is rated 600 V.

CONSTRUCTION

Conductor: Annealed compact stranded AA-8000 series Aluminum Conductor Material (ACM).
Insulation: Low coefficient of friction, abrasion, moisture, and heat resistant colored polyvinyl chloride (PVC).
Covering: Low coefficient of friction, abrasion, moisture, and heat resistant translucent Nylon polyamide.
Assembly: Cabled assembly with an equipment grounding conductor and a binder tape overall.
Armor: Aluminum Interlocked Armor (AIA).

CONDUCTOR IDENTIFICATION

Three Conductors: Black, Black with Red Stripe, Black with White Stripe
Four Conductors: Black, Black with Red Stripe, Black with Blue Stripe, Black with White Stripe

VOLTAGE RATING: 600 V

TEMPERATURE RATING	
Dry	90°C

MINIMUM BENDING RADIUS	
Not Under Tension:	7x outer diameter
Under Tension (During Pull):	10.5x outer diameter

STANDARDS

These cables are manufactured and tested to meet or exceed the following standards:

- ASTM B800 -- 8000 Series Aluminum Alloy Wire for Electrical Purposes—Annealed and Intermediate Tempers
- ASTM B801 -- Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy for Subsequent Covering or Insulation
- UL 83 -- Thermoplastic-Insulated Wires and Cables
- UL 1479 -- Fire Tests of Through-Penetration Firestops
- UL 1569 -- Metal-Clad Cables.
- ICEA S-95-658 / NEMA WC70 -- Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- Federal Specification J-C-30B

LISTINGS AND CERTIFICATIONS

UL listed as Type MC -- File E487848
UL Classified 1, 2, and 3 Hour Through-Penetration Firestop Systems

Item Number	Cable Description	Conductor Size (AWG or kcmil)	Conductors	Ground Size (AWG or kcmil)	Cabled Core Diameter (in)	Overall Diameter (in)	Al Weight (lb/1000 ft)	Net Weight (lb/1000 ft)
A4-03MC6	4-4-4+6	4	3	6	0.66	0.957	312	364
A3-03MC6	3-3-3+6	3	3	6	0.71	1.011	353	411
A2-03MC4	2-2-2+4	2	3	4	0.78	1.076	419	483
A1-03MC4	1-1-1+4	1	3	4	0.89	1.190	490	580
A1/0-03MC4	1/0-1/0-1/0+4	1/0	3	4	0.97	1.270	567	667
A2/0-03MC4	2/0-2/0-2/0+4	2/0	3	4	1.06	1.356	663	772
A3/0-03MC4	3/0-3/0-3/0+4	3/0	3	4	1.16	1.457	779	900
A4/0-03MC2	4/0-4/0-4/0+2	4/0	3	2	1.27	1.569	952	1086
A250-03MC2	250-250-250+2	250	3	2	1.41	1.713	1088	1265
A250-03MC3/0	250-250-250+3/0	250	3	3/0	1.41	1.713	1186	1363
A300-03MC1	300-300-300+1	300	3	1	1.52	1.821	1269	1460
A350-03MC1	350-350-350+1	350	3	1	1.62	1.920	1431	1636
A400-03MC1	400-400-400+1	400	3	1	1.71	2.013	1591	1810
A500-03MC1	500-500-500+1	500	3	1	1.88	2.179	1907	2148
A500-03MC2/0	500-500-500+2/0	500	3	2/0	1.88	2.179	1954	2196
A500-03MC3/0	500-500-500+3/0	500	3	3/0	1.88	2.179	1988	2229
A600-03MC1	600-600-600+1	600	3	1	2.09	2.392	2236	2548

CLASSIC WIRE & CABLE
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Item Number	Cable Description	Conductor Size (AWG or kcmil)	Conductors	Ground Size (AWG or kcmil)	Cabled Core Diameter (in)	Overall Diameter (in)	Al Weight (lb/1000 ft)	Net Weight (lb/1000 ft)
A600-03MC1/0	600-600-600+1/0	600	3	1/0	2.090	2.392	2257	2569
A750-03MC1/0	750-750-750+1/0	750	3	1/0	2.300	2.597	2723	3068
A750-03MC3/0	750-750-750+3/0	750	3	3/0	2.300	2.597	2783	3128
A6-04MC6	6-6-6-6+6	6	4	6	0.580	0.877	277	319
A4-04MC6	4-4-4-4+6	4	4	6	0.740	1.036	366	436
A3-04MC6	3-3-3-3+6	3	4	6	0.800	1.097	419	496
A2-04MC4	2-2-2-2+4	2	4	4	0.870	1.169	500	585
A1-04MC4	1-1-1-1+4	1	4	4	1.000	1.297	590	709
A1/0-04MC4	1/0-1/0-1/0-1/0+4	1/0	4	4	1.090	1.386	690	822
A2/0-04MC4	2/0-2/0-2/0-2/0+4	2/0	4	4	1.180	1.483	813	959
A3/0-04MC4	3/0-3/0-3/0-3/0+4	3/0	4	4	1.300	1.596	965	1126
A4/0-04MC2	4/0-4/0-4/0-4/0+2	4/0	4	2	1.420	1.722	1183	1361
A250-04MC1	250-250-250-250+1	250	4	1	1.584	1.884	1376	1612
A300-04MC1	300-300-300-300+1	300	4	1	1.704	2.004	1590	1846
A350-04MC1/0	350-350-350-350+1/0	350	4	1/0	1.815	2.115	1823	2097
A400-04MC1/0	400-400-400-400+1/0	400	4	1/0	1.919	2.219	2034	2325
A500-04MC3/0	500-500-500-500+3/0	500	4	3/0	2.105	2.405	2507	2830
A600-04MC3/0	600-600-600-600+3/0	600	4	3/0	2.344	2.644	2939	3354
A750-04MC3/0	750-750-750-750+3/0	750	4	3/0	2.574	2.874	3552	4012
A750-04MC750	750-750-750-750+750	750	4	750	2.574	2.874	4111	4571

NOTES

1) Dimensions and weights are subject to standard manufacturing tolerances and are subject to change without notice.

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