

MC(METAL-CLAD) CABLE

Applications:

Commodity Cables cable can be used for feeder and branch circuit line as specified in NEC. The insulation wire core of type MC cable is XHHW-2, it can be used in dry and wet locations with the highest working temperature not exceed 90°C. The rated voltage of type MC cable is 600V. The cable consists three or four XLPE insulated phase cores plus one bare ground conductor. Interlocked-Aluminum armour tape is applied overall the cable. PVC jacket is optional. MC cable with PVC jacket provides extra durability, long-term reliability and installation security.

Standard:

ASTM-B-800, B-801 and B-836

UL Standard 44 for XHHW-2

UL Standard 1569

RoHS environmental conductive requirement

Product

Conductor:	AA-8030 aluminum alloy conductors
Insulation:	Cross-linked polyethylene (XLPE) insulation
Aarmor:	Interlock Aluminum tape armor
Temperature Range:	Temperature of 90° C in wet and dry locations
Environmental:	Free of harmful heavy metals in compliance with RoHS
Voltage Rating:	600Volt



Specifications:

The AA-8000 aluminum alloy conductor is applied in Type MC cable. Its insulated core is complied to the requirement of Type XHHW-2 in UL44. Insulation material is cross-linked polyethylene (XLPE) with characteristics of abrasion resistance, moisture proof and heat resisting. Meanwhile the insulation has the flame retardant property, which can meet the FT2 level combustion test requirement.

Technical data sheet -MC(Metal-Clad) Cable

Conductor Size (AWG, Kcmil)	Phase Conductor Diameter		Nominal Insulation Thickness		Nominal Overall Diameter		Approx. Weight		Allowable Ampacity AMPS	
	inch	mm	mils	mm	mils	mm	kg/km	lbs/1000ft	75°C	90°C
MC Cable Three Conductor with Bare Ground										
6-6-6-6	0.169	4.29	45	1.14	819	20.8	421	283	50	55
4-4-4-6	0.213	5.41	45	1.14	906	23.0	521	350	65	75
2-2-2-6	0.268	6.81	45	1.14	1016	25.8	667	449	90	100
2-2-2-4	0.268	6.81	45	1.14	1031	26.2	693	466	90	100
1-1-1-4	0.299	7.59	55	1.40	1134	28.8	824	554	100	115
1/0-1/0-1/0-4	0.336	8.53	55	1.40	1209	30.7	948	638	120	135
2/0-2/0-2/0-4	0.376	9.55	55	1.40	1295	32.9	1099	739	135	150
3/0-3/0-3/0-4	0.423	10.74	55	1.40	1394	35.4	1287	866	155	175
4/0-4/0-4/0-2	0.475	12.07	55	1.40	1547	39.3	1548	1041	180	205
250-250-250-2	0.520	13.21	65	1.65	1650	41.9	1802	1212	205	230
250-250-250-3/0	0.520	13.21	65	1.65	1693	43.0	1953	1313	205	230
300-300-300-2	0.570	14.48	65	1.65	1756	44.6	2054	1381	230	260
350-350-350-2	0.616	15.65	65	1.65	2012	51.1	2462	1656	250	280
350-350-350-1	0.616	15.65	65	1.65	2012	51.1	2486	1672	250	280
400-400-400-1	0.659	16.74	65	1.65	2106	53.5	2747	1847	270	305
500-500-500-1	0.736	18.69	65	1.65	2272	57.7	3241	2180	310	350
500-500-500-2/0	0.736	18.69	65	1.65	2272	57.7	3309	2225	310	350
500-500-500-3/0	0.736	18.69	65	1.65	2272	57.7	3357	2258	340	385
600-600-600-1	0.813	20.65	80	2.03	2504	63.6	3853	2591	340	385
600-600-600-1/0	0.813	20.65	80	2.03	2504	63.6	3883	2612	375	425
700-700-700-1/0	0.877	22.28	80	2.03	2642	67.1	4403	2961	385	435
750-750-750-1/0	0.908	23.06	80	2.03	2709	68.8	4619	3107	385	435
750-750-750-3/0	0.908	23.06	80	2.03	2709	68.8	4704	3164	385	435
750-750-750-750	0.908	23.06	80	2.03	2886	73.3	5563	3741	385	435
900-900-900-250	0.999	25.37	80	2.03	2906	73.8	5556	3737	425	480
900-900-900-900	0.999	25.37	80	2.03	3106	78.9	6515	4382	425	480

Conductor Size (AWG, Kcmil)	Phase Conductor Diameter		Nominal Insulation Thickness		Nominal Overall Diameter		Approx. Weight		Allowable Ampacity AMPS	
	inch	mm	mils	mm	mils	mm	kg/km	lbs/1000ft	75°C	90°C
MC Cable Four Conductor with Bare Ground										
6-6-6-6-6	0.169	4.29	45	1.14	965	24.5	421	283	50	55
4-4-4-4-6	0.213	5.41	45	1.14	1063	27.0	521	350	65	75
2-2-2-2-6	0.268	6.81	45	1.14	1185	30.1	667	449	90	100
2-2-2-2-4	0.268	6.81	45	1.14	1224	31.1	693	466	90	100
1-1-1-1-4	0.299	7.59	55	1.40	1335	33.9	824	554	100	115
1/0-1/0-1/0-1/0-4	0.336	8.53	55	1.40	1417	36.0	948	638	120	135
2/0-2/0-2/0-2/0-4	0.376	9.55	55	1.40	1504	38.2	1099	739	135	150
3/0-3/0-3/0-3/0-4	0.423	10.74	55	1.40	1610	40.9	1287	866	155	175
4/0-4/0-4/0-4/0-2	0.475	12.07	55	1.40	1776	45.1	1548	1041	180	205
250-250-250-250-2	0.520	13.21	65	1.65	2075	52.7	1802	1212	205	230
250-250-250-250-3/0	0.520	13.21	65	1.65	2217	56.3	1953	1313	205	230
300-300-300-300-2	0.570	14.48	65	1.65	2181	55.4	2054	1381	230	260
350-350-350--350--2	0.616	15.65	65	1.65	2283	58.0	2462	1656	250	280
350-350-350-350-1	0.616	15.65	65	1.65	2311	58.7	2486	1672	250	280
400-400-400-400-1	0.659	16.74	65	1.65	2406	61.1	2747	1847	270	305
500-500-500-500-1	0.736	18.69	65	1.65	2575	65.4	3241	2180	310	350
500-500-500-500-2/0	0.736	18.69	65	1.65	2646	67.2	3309	2225	310	350
500-500-500-500-3/0	0.736	18.69	65	1.65	2685	68.2	3357	2258	340	385
600-600-600-600-1	0.813	20.65	80	2.03	2811	71.4	3853	2591	340	385
600-600-600-600-1/0	0.813	20.65	80	2.03	2843	72.2	4403	2961	375	425
700-700-700-700-1/0	0.877	22.28	80	2.03	2984	75.8	4619	3107	385	435
750-750-750-750-1/0	0.908	23.06	80	2.03	3051	77.5	4704	3164	385	435
750-750-750-750-3/0	0.908	23.06	80	2.03	3130	79.5	4704	3164	385	435
750-750-750-750-750	0.908	23.06	80	2.03	3579	90.9	5563	3741	385	435
900-900-900-900-250	0.999	25.37	80	2.03	3421	86.9	5556	3737	425	480
900-900-900-900-900	0.999	25.37	80	2.03	3862	98.1	6515	4382	425	480

