



ALCAN  
CABLE

# STABILOY® MC Cable Metal-Clad Cable

## DESCRIPTION

Alcan Cable's interlocked aluminum armor type STABILOY® MC Cable is designed for above-ground applications. The distinctive features unique to STABILOY MC Cable provide a significant savings in installation cost and time. It is quicker and easier to install than conventional pipe and wire and is the product of choice for many electrical contractors.

With the added durability of the PVC jacket, jacketed STABILOY MC Cable is a better choice for many applications. It is listed for direct burial, for application in cable tray and for sunlight resistance. A prime example is for utilization in feeder applications within multi-family residential and similar commercial constructions.

## PRODUCT CONSTRUCTION

**Construction** — Compact stranded STABILOY AA-8030 series aluminum alloy as recognized in ASTM B-800 and B-801 standards.

**Insulation** — Phase conductors insulated with cross-linked polyethylene (XLPE) insulation on STABILOY aluminum alloy conductors perform better in cold impact, wet electrical and long-term aging tests, making XLPE a better insulation for 600V applications.

**Jacket** — STABILOY MC Cable with PVC jacket provides added durability, long-term reliability and installation security on your job site. PVC jacketed STABILOY MC Cable can be direct buried, used in wet locations or encased in concrete. Heavy metals-free\* insulation is RoHS compliant and environmentally sustainable while providing excellent long-term performance.

**Assembly** — STABILOY MC Cable's construction consists of either three or four insulated phase-identified conductors plus a bare equipment-grounding conductor inside interlocked aluminum alloy armor. STABILOY MC Cable is a UL Listed assembly. Alcan Cable stocks a selection of sizes of jacketed and unjacketed STABILOY MC Cable for immediate availability.

**Phase Identification** — Color phase identification with three wide color stripes embedded within the surface of the cross-linked polyethylene insulation.

**Print Legend** — The cable assembly is identified with a marker tape placed under the wrapping tape. The legend on the marker tape includes, ALCAN TYPE MC-ST1 STABILOY® AA-8030 AL 600 V (UL) FOR CT USE (NOT "ST1" ON JACKETED MC UNLESS SO MARKED) NOM ANCE "SEQUENTIAL FOOTAGE". STABILOY® MC Cable with jacket is available upon request.

### STABILOY MC Applications —

- For service entrance and feeders
- For power lighting and signal circuits
- Indoors
- Where exposed or concealed
- In cable tray
- In certain hazardous locations
- In dry locations and embedded in plaster finish on brick or other masonry except in damp or wet conditions
- Interior temporary power

**Industry Specification** — Every foot of STABILOY aluminum alloy feeder cable is 100% tested for quality — so its reliability, durability and safety are all guaranteed! Meets or exceeds requirements of the NEC®, as well as applicable UL Standards.

Alcan Cable offers the electrical contractor the opportunity to choose the most economical product configuration from the STABILOY line of products to meet project specifications. In addition, Alcan Cable's Field Application Engineers are available to assist with specialized technical support regarding the use and application of STABILOY brand aluminum alloy feeder conductors and cables.

All this provides significant savings over traditional conduit and copper wire installations. For ease-of-use and significant cost savings over conventional pipe and wire installations, choose STABILOY MC Cable.



STABILOY®

\*Denotes compliance to RoHS, Directive 2002/95/EC.

# STABILOY® MC Cable



## Dimensions and Weights for STABILOY® MC Cable

Conductor Size AWG/kcmil			Insulation/Jacket Thickness (mils)		Nominal Diameter	Nominal Weight	Package Length	Ampacity*
Phase	No. of Strands	Ground	Insulation	Jacket	Inches	lb/1000 ft.	ft/reel	75° C
<b>Three Conductor with Ground - XLPE (XHHW-2)</b>								
6	7	6	45	60	0.83	237	1000	50
4	7	6	45	60	0.93	308	1000	65
2	7	6	45	80	1.03	402	1000	90
1	19	4	55	80	1.16	504	1000	100
1/0	19	4	55	80	1.23	584	1000	120
2/0	19	4	55	80	1.28	674	1000	135
3/0	19	4	55	80	1.36	796	1000	155
4/0	19	2	55	80	1.51	1005	1000	180
250	37	2	65	80	1.63	1166	500	205
300	37	2	65	110	1.72	1337	500	230
300	37	1/0	65	110	1.74	1398	500	230
350	37	2	65	110	1.80	1505	500	250
400	37	1	65	110	1.91	1692	500	270
500	37	1	65	110	2.04	2023	500	310
600	61	1	80	110	2.24	2416	500	340
700	61	1/0	80	110	2.39	2765	500	375
750	61	1/0	80	110	2.44	2926	500	385
900	61	250	80	140	2.78	3546	500	425
900	61	400	80	140	3.02	3728	500	425
900	61	750	80	140	3.18	4082	500	425
<b>Four Conductor with Ground - XLPE (XHHW-2)</b>								
6	7	6	45	80	0.92	334	1000	50
4	7	6	45	80	1.04	421	1000	65
2	7	6	45	80	1.17	548	1000	90
1	19	4	55	80	1.31	694	1000	100
1/0	19	4	55	80	1.40	802	1000	120
2/0	19	4	55	80	1.47	933	1000	135
3/0	19	4	55	80	1.58	1099	1000	155
4/0	19	2	55	80	1.73	1369	1000	180
250	37	1	65	110	1.89	1713	500	205
300	37	1	65	110	2.01	1947	500	230
350	37	1/0	65	110	2.13	2204	500	250
400	37	1/0	65	110	2.23	2458	500	270
500	37	2/0	65	110	2.43	2943	500	310
600	61	2/0	80	110	2.68	3483	500	340
700	61	2/0	80	140	2.83	4117	500	375
750	61	3/0	80	140	2.93	4374	500	385
750	61	750	80	140	3.20	5083	500	385
900	61	3/0	80	140	3.08	4506	500	425
900	61	250	80	140	3.12	4574	500	425
900	61	400	80	140	3.27	4745	500	425
900	61	750	80	140	3.52	5110	500	425

### ALCAN CABLE

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