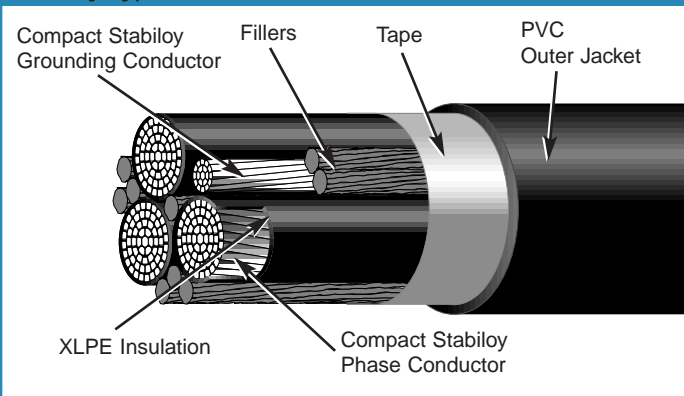


ALCAN CABLE

STABILOY® TRAY CABLE TYPE TC POWER CABLE



Stabiloy Type TC - 3 Conductor with Ground



Description:

- Stabiloy® Tray Cable Type TC Power Cable #6 AWG - 750 kcmil - XLPE (XHHW-2) Insulated Stabiloy® AA - 8030 Series Aluminum Alloy Conductors, PVC Jacket, 600 Volts, 90°C Dry, 90°C Wet, NEC Article 340.

Product Construction:

Conductor:

- Compact Stranded Stabiloy® AA-8030 Series Aluminum Alloy as recognized in ASTM B-800 and B-801 standards.

Insulation:

- Phase conductors are insulated with crosslinked polyethylene (XLPE) meeting the requirements for Type XHHW-2 per UL Standard 44.
- Insulation thickness is as specified in UL Standard 44 for Type XHHW-2 Conductors.

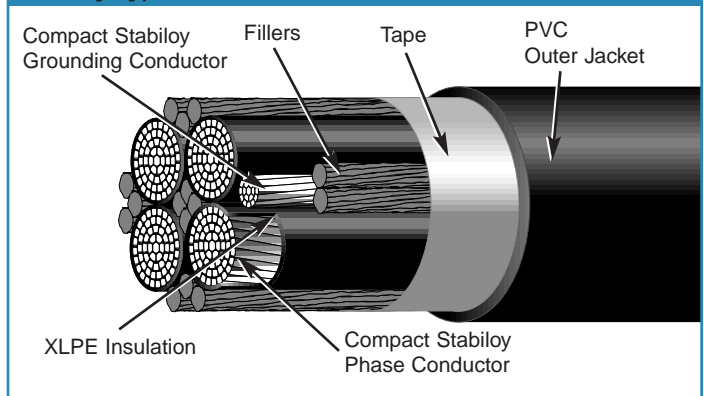
Jacket:

- Heat, moisture and sunlight resistant PVC applied over a taped assembly.
- The average thickness is in compliance with UL Standard 1277.
- The PVC (used by Alcan Cable) is free of the heavy metals Lead and Cadmium.

Assembly:

- Three or four phase conductors cabled together with a bare grounding conductor.
- Nonhygroscopic fillers to make assembly round.
- Size of the grounding conductor complies with the requirements of UL Standard 1277.
- Cable assembly is covered with binding tape.
- The overall assembly is covered with a flame retardant, moisture and sunlight resistant PVC Jacket suitable for direct burial.

Stabiloy Type TC - 4 Conductor with Ground



Phase Identification:

- Insulated conductors are phase identified. One insulated conductor is black. One insulated conductor has a longitudinal red stripe. One insulated conductor is total surface painted white. If provided, a fourth insulated conductor has a single longitudinal blue stripe.

Print Legend:

- ALCAN (PLANT OF MANUFACTURE) COMPACT STABILOY® AA-8030 SERIES TYPE TC XHHW-2 600V (NO., OF CONDUCTORS) __AWG (__SQMM) 1 CDR __AWG (__SQMM) 90°C JACKET SUNLIGHT RESISTANT DIRECT BURIAL OPEN WIRING (UL) YEAR

Application:

- Alcan "Type TC" is used to supply power to motors and other electrical devices.
- Installed in cable trays, raceways or outdoor locations where supported by a messenger wire.
- Specifically listed for installation in cable tray and for open wiring in accordance with Article 340 of the NEC®.
- Approved for direct burial and for use in Class 1, Div. 2 hazardous locations.
- Rated to 600 Volt at temperature not to exceed 90°C for wet or dry locations.

Industry Specification:

- Underwriter Laboratories Standard 44 for Rubber Insulated Wire and Cables.
- Underwriters Laboratories Standard 1277 for Type TC Power and Control Tray Cables.
- Underwriters Laboratories Standard 1581 for Electrical Wires and Cables.
- Article 340 of the National Electrical Code®.
- IEEE 383 Fire Test (70,000 BTU).

- See termination provisions for conductor sizing as given in Underwriters Electrical Construction Materials Directory, "Equipment for Use in Ordinary Location."
- NEC and National Electrical Code are registered trademarks of the National Fire Protection Association.



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DIMENSIONS AND WEIGHTS FOR STABILOY® TRAY CABLE TYPE TC

Conductor Size AWG/KCML		Insulation/Jacket Thickness in MILS			Nominal Diameter		Nominal Weight		Package Length	Ampacity*	
Phase	No. of Strands	Ground	Insulation	Jacket	Inches	mm	Lb/1000ft	Kg/Km	Ft/Reel	90°C	75°C
Three Conductor With Ground - XLPE (XHHW-2)											
6	7	6	45	60	0.74	18.9	249	370	1000	60	50
4	7	6	45	60	0.81	20.7	311	464	1000	75	65
2	7	6	45	80	0.95	24.1	441	656	1000	100	90
1	19	4	55	80	1.07	27.3	558	830	1000	115	100
1/0	19	4	55	80	1.13	28.9	640	952	1000	135	120
2/0	19	4	55	80	1.22	31.1	742	1104	1000	150	135
3/0	19	4	55	80	1.32	33.6	870	1295	1000	175	155
4/0	19	2	55	80	1.44	36.5	1080	1607	1000	205	180
250	37	2	65	80	1.58	40.0	1254	1865	500	230	205
300	37	2	65	110	1.74	44.3	1528	2274	500	255	230
350	37	2	65	110	1.84	46.8	1706	2539	500	280	250
400	37	1	65	110	1.94	49.2	1919	2855	500	305	270
500	37	1	65	110	2.10	53.4	2267	3374	500	350	310
600	61	1	80	110	2.33	59.2	2683	3992	500	385	340
700	61	1/0	80	110	2.47	62.7	3065	4560	500	420	375
750	61	1/0	80	110	2.54	64.4	3236	4815	500	435	385
Four Conductor With Ground - XLPE (XHHW-2)											
6	7	6	45	80	0.86	21.9	334	497	1000	48	40
4	7	6	45	80	0.95	24.1	421	626	1000	60	52
2	7	6	45	80	1.06	26.9	548	815	1000	80	72
1	19	4	55	80	1.21	30.6	694	1033	1000	92	80
1/0	19	4	55	80	1.28	32.5	802	1194	1000	108	96
2/0	19	4	55	80	1.36	34.5	933	1388	1000	120	108
3/0	19	4	55	80	1.46	37.2	1099	1636	1000	140	124
4/0	19	2	55	80	1.61	41.0	1369	2037	1000	164	144
250	37	1	65	110	1.83	46.6	1713	2549	500	184	164
300	37	1	65	110	1.93	49.1	1947	2896	500	204	184
350	37	1/0	65	110	2.06	52.4	2204	3280	500	224	200
400	37	1/0	65	110	2.15	54.6	2458	3657	500	244	216
500	37	2/0	65	110	2.34	59.5	2943	4379	500	280	248
600	61	2/0	80	110	2.59	65.7	3483	5182	500	308	272
700	61	2/0	80	140	2.80	71.1	4117	6125	500	336	300
750	61	3/0	80	140	2.87	73.0	4374	6508	500	348	308

AMPACITY in accordance with the National Electrical Code for cables in uncovered cable tray without maintained spacing and for cable in raceway or direct buried at the conductor temperature indicated, in wet or dry locations, 30°C ambient temperature.

Note: 1. Grounding conductor per UL Standard 1277 for Type TC Tray Cable.

Note: 2. Size of the equipment grounding conductor has been increased in several standard constructions of four conductor TC Cable to make them suitable for parallel runs. Consult Article 250 of the National Electrical Code to verify the size of equipment grounding required for your particular application.

Note: 3. The fourth conductor, typically used as the grounded conductor, in four conductors with ground construction of Type TC is assumed to be a current carrying conductor for ampacity values in the above table.

Alcan Cable

Division of Alcan Products Corporation
 Three Ravinia Drive, Suite 1600
 Atlanta, GA 30346-2133
 (770) 394-9886 FAX (770) 395-9053



STABILOY® CONDUCTORS