

Simpull CT1 [®] - 09ET

5kVU or 8kV Type MV-105. Copper Conductor
Thermosetting Conductor and Insulation Shield.
EPR Insulation. Copper Tape Shield. Simpull [®] PVC Jacket.
Sizes AWG 1/0 and Larger Listed for CT Use.
RoHS



APPLICATIONS

Southwire SIMpull CT1-09ET Type MV-105 Cable is for use in aerial, direct burial, cable trays, conduit, and underground duct installations as permitted by the National Electrical Code. These cables are capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and are rated at 5,000V, 133% (ungrounded system) and 8,000V 100% insulation level (grounded system). Maximum sidewall pressure is 1000 lbs. This cable can be installed without the need for pulling lubricant.

SPECIFICATIONS

Southwire SIMpull CT1-09ET Type MV-105 Cable is manufactured and tested in accordance with the latest revisions of the following standards and specification:

- UL 1072 - Medium Voltage Power Cables
- ICEA S-93-639 (NEMA WC 74) - Electric Energy.
- ICEA S-97-682 (when requested)
- UL 1685 - (AWG 1/0 and larger) - UL-CT Flame Exposure Test.
- IEEE 1202/FT4 - Flame Test (70,000 Btu/hr Vertical Tray Test) with CPE and Solonon jacket.
- AEIC CS-8
- RoHS

CONSTRUCTION

Southwire SIMpull CT1-09ET Type MV-105 Cable offers our patented SIM (Sliqwik [®] Infused Membrane) Technology [®] for easier pulling, flexible, easy bending insulation, easy cable preparation, fast stripping thermosetting insulation shield, 105°C continuous operating temperature, 100% shield coverage, and it is triple extruded. Cable is sunlight resistant, suitable for direct burial, and listed for cable tray use in sizes 1/0 and larger. SOLONON[™] low smoke, non halogen polyolefin jackets and CPE jackets are available upon request.

CT1-09ET 1c, 5/8kV, 115mil EPR(133/100%), TS, PVC, CT Rated

Product Code	Size	Conductor Diameter		0.115 " (2.92mm) Insulation Diameter		Extruded Insulation Shield Diameter		Min. Point Jacket Thickness		Approximate Overall Diameter		Approximate Net Weight		Allowable Ampacities +	
	AWG or kcmil	inch*	mm	inch**	mm	Inch***	mm	inch	mm	inch	mm	Ib./Mft.	kg/km	Duct	Conduit In Air
C1-09ET-006	6	.178	4.52	.465	11.81	.52	13.21	.055	1.4	.656	16.7	282	420	92	84
C1-09ET-004	4	.225	5.72	.513	13.02	.568	14.41	.055	1.4	.701	17.8	351	523	120	110
C1-09ET-002	2	.283	7.19	.547	13.89	.623	15.82	.055	1.4	.759	19.28	455	677	155	145
C1-09ET-001	1	.322	8.18	.608	15.43	.663	16.83	.055	1.4	.799	20.3	525	782	180	175
CT1-09ET-010	1/0	.362	9.19	.648	16.45	.703	17.84	.07	1.78	.87	22.1	641	954	210	200
CT1-09ET-020	2/0	.405	10.29	.688	17.46	.743	18.86	.07	1.78	.91	23.1	745	1108	235	225
CT1-09ET-030	3/0	.456	11.58	.738	18.73	.793	20.13	.07	1.78	.96	24.4	877	1306	270	270
CT1-09ET-040	4/0	.512	13	.793	20.13	.848	21.53	.07	1.78	1.015	25.8	1036	1541	310	305
CT1-09ET-250	250	.558	14.17	.85	21.59	.905	22.99	.07	1.78	1.07	27.2	1181	1757	345	355
CT1-09ET-350	350	.661	16.79	.953	24.19	1.008	25.59	.07	1.78	1.175	29.8	1543	2297	415	430
CT1-09ET-500	500	.79	20.07	1.078	27.37	1.133	28.77	.07	1.78	1.3	33	2067	3076	505	530
CT1-09ET-750	750	.968	24.59	1.265	32.13	1.32	33.53	.07	1.78	1.487	37.8	2932	4363	630	665
CT1-09ET-1000	1000	1.117	28.37	1.41	35.81	1.465	37.21	.07	1.78	1.632	41.5	3771	5612	720	770

+Ampacities are based on the NEC, 2011 Edition. Duct ampacities are based on Table 310.77 three conductors in one underground duct, 105°C conductor, 20°C earth ambient temperature. Conduit in air ampacities are based on Table 310.73 three cables in isolated conduit in air, 105°C conductor, 40°C ambient temperature.

Scope: This specification covers single conductor EPR (ethylene propylene rubber) insulated, shielded, thermoplastic jacketed power cable for use in aerial, direct burial, cable trays, conduit, and underground duct installations. This cable is capable of operating continuously at a conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload conditions, and 250°C for short circuit conditions, and is rated at 5,000V, 133% insulation level, and 8,000V, 100% insulation level.

Standards: The following standards shall form a part of this specification - UL Standard 1072 for Medium Voltage Power Cable and ICEA S-93-639 (NEMA WC 74) 5-46 kV Shielded Power Cable for Use in the Transmission & Distribution of Electric Energy.

Conductor: The conductor shall be Class B compressed soft or annealed copper in accordance with ASTM Specs B3 and B8 and ICEA Part 2, Section 2.1 and 2.5.

Conductor Shield: The conductor shall be shielded with an extruded semi-conducting thermosetting polymeric layer over the conductor, applied in tandem with and firmly bonded to the insulation.

Insulation : The insulation shall be EPR (ethylene propylene rubber) meeting the requirements of the referenced standards. The nominal thickness shall be 0.115".

Insulation Shield: The insulation shall be covered with an extruded layer of semi-conducting thermosetting material which shall be identified as being semi-conducting. Over this layer shall be applied a helically-wrapped 5-mil copper tape with 25% overlap.

Jacket: The cable shall be provided with a jacket of black sunlight resistant PVC conforming to the requirements specified for polyvinyl chloride jackets in ICEA. The average thickness shall be in accordance with Table 7-3 of ICEA. Optional SOLONON low smoke, non halogen polyolefin jackets and CPE jackets are available upon request.

Identification: Cable shall be identified by surface printing on the jacket.

Tests: Qualification tests shall be conducted in accordance with the requirements of AEIC.