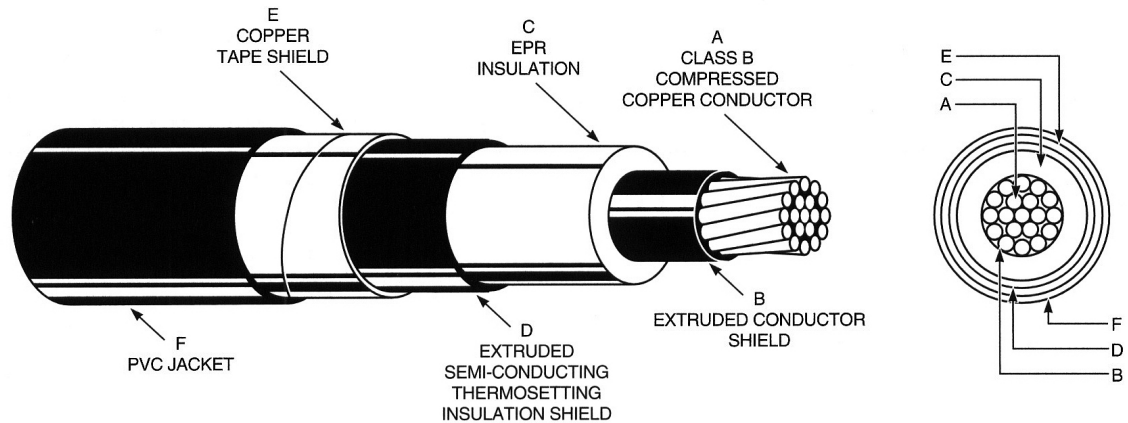


Simpull CT1® - 09ET

**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 (Slikqwik® 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 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	lb./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, 2008 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.

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: August 8, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Bill Shaw

Project No. WT 14127.01

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	261100E01	(Submittal No.'s) (R&B CxSRC - None)
		(Cannon #261100-003) - (Paric #15051-) - (WES #607)
		• Wiring Over 600 Volts

Remarks:

c: **Kelvin Patel**
Kpatel@cannondesign.com

☒

Furnish as Submitted

☐

Furnish as Noted

☐

Rejected

☐

Revise & Resubmit

☐

Reviewed

☐

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

WTASHOP - Webster ISB - 26 1100-003

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
Date: 8/2/2016 2:52 PM
Subject: Webster ISB - 26 1100-003
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>
Attachments: 261100-003 Wiring Over 600V Product Data.pdf

Attached for review.

Melissa Pirtle

Construction Admin

CANNONDESIGN

1100 Clark Ave
St. Louis, Missouri 63102
T [314.425.8797](tel:314.425.8797) • M
cannondesign.com



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0169

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/02/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Wiring Over 600V Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:		SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings		☒ Approval	☐ Approved as Submitted
☐ Letter		☐ Your Use	☐ Approved as Noted
☐ Prints		☐ As Requested	☐ Returned After Loan
☐ Change Order		☐ Review and Comment	☐ Resubmit
☐ Plans			☐ Submit
☐ Samples		SENT VIA:	☐ Returned
☐ Specifications		☐ Attached	☐ Returned for Corrections
☒ Other: Product Data		☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		261100-003	1		08/02/2016	Wiring Over 600V Product Data	Submitted

NOTES:

CC:

Signed: _____
Devin Gates

Transmittal

To Paric Corporation

Date 8/2/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-014

We are sending you:

☒ Attached

☐ Under separate cover, the following:

☐ Preliminary Drawings

☐ Samples

☐ Construction Drawings

☐ Copy of Letter

☐ Specifications

☐ Other _____

Quantity	Drawing #	Date/Revision	Description
1			Submittal for Wire Over 600V - Spec Section
			26 11 00

These are transmitted as checked:

☒ For Your Review & Comment

☐ Approved As Noted

☒ For Approval

☐ Returned For Corrections

☐ For Your File

☐ Approved As Submitted

☐ As Requested

☐

Copy:

Transmittal

Enclosure

Rick Branstetter

Signed: Rick Branstetter, Project Manager