

5kV, 5kVU Type MV-105 TS, GW, PVC, CT Rated

Construction

Three conductor EPR insulated, shielded, thermoplastic jacketed power cables with grounding conductor. Alternate constructions available.

Specifications

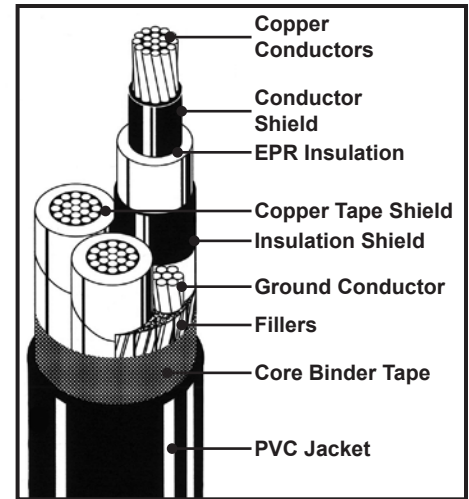
Manufactured and tested in accordance with the latest revisions of the following standards and specifications:

- UL 1072 - Medium Voltage Power Cables
- ICEA S-93-639 (NEMA WC 74) - 5-46 kV Shielded Power Cable for use in the Transmission & Distribution of Electric Energy
- ICEA S-97-682 (when requested) 5-46 kV Standard for Utility Shielded Power Cable
- UL 1685 - UL Flame Exposure Test
- IEEE 1202 (Sizes 4 AWG and larger) - Flame Test (70,000 Btu/hr Vertical Tray Test)

Certified qualification tests were performed in accordance with the requirements of AEIC CS-8. Cable has fully met the qualification testing requirements of AEIC CS-8.

Applications

For use in aerial installations, direct buried, cable trays, troughs or raceway. These cables are capable of operating continuously at a maximum conductor temperature of 105°C for normal operation, 140°C for emergency overload conditions and 250°C for short circuit conditions and are rated at 5kV, 100% (grounded system) and 133% insulation levels (ungrounded system).



Size (AWG or kcmils)	Conductor Diameter (in)	Ground Conductor (AWG)	Min. Point Jacket Thickness (in)	Approx. Overall Diameter (in)	Approx. Net Weight (lbs/M-ft)	Allowable Ampacity (amps)	
						Duct	Conduit in Air
2	.283	6	.070	1.443	1,447	145	135
1	.322	4	.070	1.529	1,730	165	155
1/0	.362	4	.070	1.616	1,987	190	185
2/0	.405	4	.100	1.765	2,421	220	210
3/0	.456	3	.100	1.873	2,869	250	245
4/0	.512	3	.100	1.992	3,384	285	285
250	.558	3	.100	2.123	3,868	315	315
350	.661	2	.100	2.349	5,056	380	390
500	.790	1	.100	2.619	6,770	460	475
750	.968	1/0	.125	3.077	9,722	570	585

Information based on Southwire specs.

See referenced page in the Hardware & Supplies section:

Suggested Prep Tool
WS 5 End Stripper - I-9