

5kVU, 8kV Type MV-105 TS, PVC, CT Rated

Construction

Single conductor EPR insulated, shielded, thermoplastic jacketed power cable. 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.

Specifications

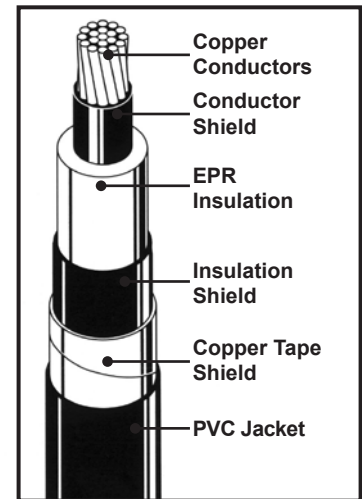
Manufactured and tested in accordance with the latest revisions of the following standards and specifications:

- 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 - (AWG 1/0 and larger) -UL Flame Exposure Test
- IEEE 1202 - Flame Test (70,000 Btu/hr Vertical Tray Test)

Certified qualification tests were performed in accordance with the requirements of ICEA CS-6. Cable has fully met the qualification testing requirements of ICEA CS-6.

Applications

For use in aerial, direct burial, cable trays, conduit and underground duct installations as permitted by the NEC®. 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 5kV, 133% (ungrounded system) and 8kV 100% insulation level (grounded system).



Size (AWG or cmils)	Conductor Diameter (in)	Min. Point Jacket Thickness (in)	Approx. Overall Diameter (in)	Approx. Net Weight (lbs/M-ft)	Allowable Ampacity	
					Duct	Conduit in Air
6	.178	.055	.656	282	92	84
4	.225	.055	.701	351	120	110
1	.322	.055	.799	525	180	175
1/0	.362	.070	.870	641	210	200
2/0	.405	.070	.910	745	235	225
3/0	.456	.070	.960	877	270	270
4/0	.512	.070	1.015	1,036	310	305
250	.558	.070	1.070	1,181	345	355
350	.661	.070	1.175	1,543	415	430
500	.790	.070	1.300	2,067	505	530
750	.968	.070	1.487	2,932	630	665
1,000	1.117	.070	1.632	3,771	720	770

Information based on Southwire specs.

See referenced page in the Hardware & Supplies section:

Suggested Prep Tool

- WS 5 End Stripper - I-9