

# TYPE MV-90 POWER CABLE - 5kV

XLP Insulation - Non-Shielded

6 AWG - 750 KCMIL • Single Conductor • 90°C Dry Locations



ICEA  
OSHA

## Scope

This specification covers non-shielded, single conductor cables having stranded, uncoated copper conductors; taped semi-conducting strand shield and crosslink polyethylene insulation. Cables are rated 5,000 volts, 90°C in dry locations and meet the requirements of ICEA S-96-659 (NEMA WC 71), Article 328 and 310 of the National Electrical Code, and UL-1072.

## Applications

UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in dry locations at maximum operating temperature of 90°C for normal operation; 130°C for emergency overload conditions; and 250°C for short circuit conditions. Cables may be installed in conduit or duct.

## Construction

**Conductor:** Compressed class B stranded annealed uncoated copper.

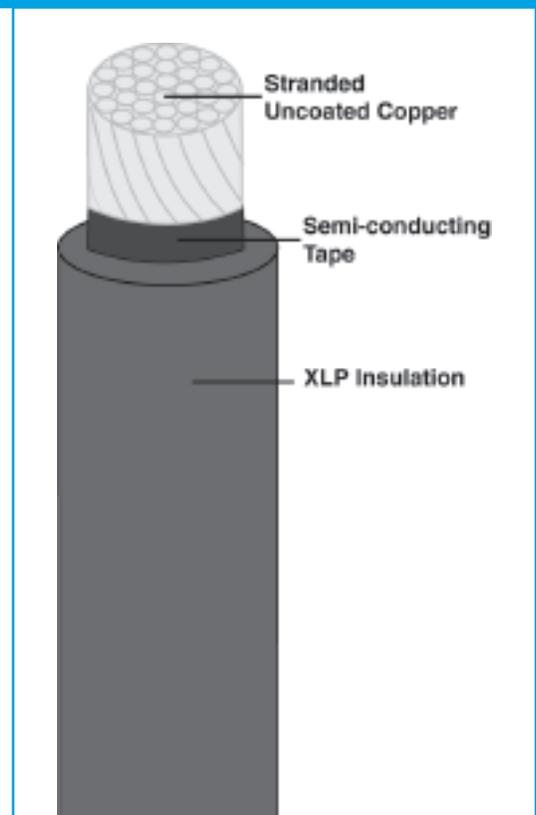
**Conductor Shield:** Nylon semi-conducting tape.

**Insulation:** 90°C rated black crosslink polyethylene (XLP) per ICEA S-96-659 part 3.

**Tests:** The finished cable shall be tested in accordance with the requirements of ICEA S-96-659 and UL-1072.

### Optional Constructions:

Consult factory for cable specifications with alternate constructions or materials.



## 5kV<sup>1</sup> XLP • Copper Conductor • 90°C Rating • ES08624

Part Number	Size AWG or KCMIL	No. of Strds.	Nom. Cond. Diameter (Inches)	Min. Avg. Insul. Wall (Inches)	Approx. O.D. (Inches)	Approx. Net Weight Lbs./M Ft.	Amps <sup>2</sup>
24554	6	7	.181	.110	.425	132	75
17988	4	7	.228	.110	.470	188	97
17990	2	7	.287	.110	.530	274	130
-	1	19	.327	.110	.590	-	155
17991	1/0	19	.367	.110	.610	416	180
17992	2/0	19	.412	.110	.655	510	205
17993	4/0	19	.520	.110	.765	760	280
17994	250	37	.566	.120	.830	910	315
17995	350	37	.670	.120	.935	1240	385
17996	500	37	.800	.120	1.065	1730	475
17997	750	61	.983	.130	1.265	2534	600

<sup>1</sup>2001 to 5000 volts at 100% insulation level and 2001 to 3000 volts at 133% insulation level (ICEA S-96-659, table 4-2).

<sup>2</sup>Ampacities are based on three single conductor cables in isolated conduit in air. Conductor temperature of 90°C and ambient air temperature of 40°C per Table 310.73 of the 2002 NEC.

The data listed above is approximate and subject to change without notice.