

MEDIUM VOLTAGE POWER CABLE

TYPE MV-90 - SHIELDED XLP POWER CABLE, 100% INSULATION LEVEL, 15000 VOLT

Construction

Conductor:

- Compressed class B stranded annealed uncoated copper.

Conductor Shield:

- Extruded semi-conducting co-polymer compound.

Insulation:

- 90°C rated Cross-linked Polyethylene (XLPE) per ICEA S-93-639 section 4 and UL-1072.

Insulation Shield:

- Extruded semi-conducting co-polymer compound applied directly over the insulation. The conductor shield, insulation and insulation shield are applied in one tandem operation.

Shield:

- Uncoated helically applied copper wires.

Jacket:

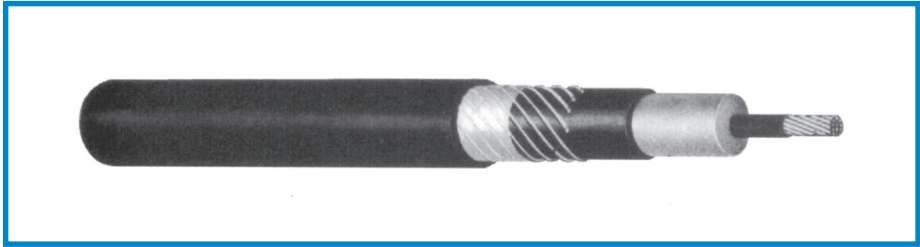
- Extruded PVC jacket with excellent mechanical properties. Jacket is UL recognized as being "sunlight resistant."

Tests:

- The finished cable shall be tested in accordance with and meet the requirements of ICEA S-93-639, UL-1072, and AEIC CS-5.

Industry Approvals:

- Listed by UL as 15,000-volt power cable, Type MV-90, per UL Standard 1072.
- Conforms to ICEA Pub No. S-66-524 and NEMA Pub. No. WC7 for Crosslinked-thermosetting-polyethylene-Insulated Wire and Cable.



CUSTOM CATALOG NUMBER	SIZE	STRAND	NOMINAL THICKNESS (INCHES)		NOMINAL O.D. INCHES	AMPS			NOMINAL WEIGHT LBS/MFT
	AWG/MCM		INSULATION	JACKET		DIRECT BURIAL ¹	DUCT ²	AIR ³	
8001-15000 VOLTS, SHIELDED, 100% INSULATION LEVEL (GROUNDED NEUTRAL)									
13440	2	7	.080	0.990	545	210	155	150	495
13441	1	19	.080	1.025	616	240	175	170	565
13442	1/0	19	.080	1.065	705	275	200	195	650
13443	2/0	19	.080	1.110	815	310	230	225	755
13444	3/0	19	.080	1.160	950	355	260	260	880
13445	4/0	19	.080	1.215	1119	405	295	295	1045
13446	250	37	.080	1.275	1305	440	325	330	1200
13447	350	37	.080	1.390	1699	535	390	395	1550
13448	500	37	.080	1.520	2241	650	465	480	2070
13449	750	61	.080	1.710	3135	805	565	585	2945
13450	1000	61	.080	1.930	4166	930	640	675	3890

- Ampacities are based on three single conductor cables directly buried in earth, conductor temperature of 90°C and ambient earth temperature of 20°C per Table 310.81 of the 2002 NEC.
- Ampacities are based on three single conductor cables in underground electrical duct, conductor temperature of 90°C and ambient earth temperature of 20°C per Table 310.77 of the 2002 NEC.
- 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.

- NOTES:
- Upon request, sizes 250 MCM and larger can be manufactured and listed for installation in cable tray.
 - Copper metallic tape shield available on special request.
 - CPE, Neoprene or Hypalon® jacket may also be supplied on special order.

Applications

UL listed and OSHA acceptable. Where NEC requirements apply, cables are suitable for use in wet or 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, duct or aerially when properly supported by a messenger. Cables are also suitable for direct burial if installed in a system with a grounding conductor that is in close proximity and conforms with Article 250A(A)(5) and 250.4(B)(4) of the 2002 NEC.

Custom Cable Corp.

AEIC



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