

MEDIUM POWER CABLE

THREE CONDUCTOR, EPR INSULATION/COPPER TAPE SHIELD WITH OVERALL PVC JACKET. SHIELDED, 15KV, UL TYPE MV-105, 133%/100% INS. LEVELS, 220 MIL INSULATION

Construction

Conductor:

- 2 AWG thru 1000 kcmil annealed bare copper compact Class B strand.

Extruded Strand Shield:

- Extruded thermoset semi-conducting stress-control layer over conductor.

Insulation:

- Ethylene Propylene Rubber (EPR) insulation, colored to contrast with the black conducting shield layers.

Extruded Insulation Shield:

- Thermoset semi-conducting polymeric layer free stripping from insulation.

Metallic Shield:

- 5 mil annealed copper tape with an overlap of 25%.

Grounding Conductor

- 1 bare grounding conductor may be in contact with metallic shielding tape.

Jacket Assembly:

- Flame-retardant, moisture- and sunlight-resistant Polyvinyl Chloride (PVC).

Options:

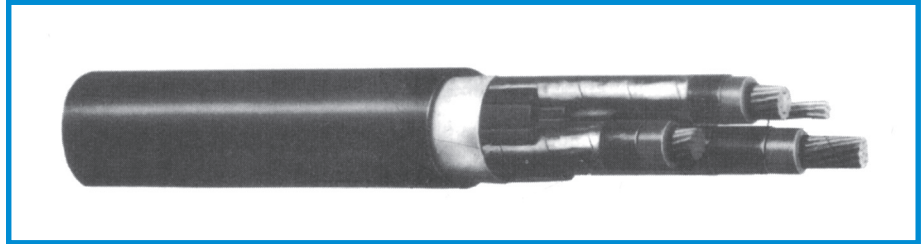
- Low-Smoke, Zero-Halogen (LSZH) jacket. Special.

Applications:

- Suited for use in a broad range of commercial, industrial and utility applications, where reliability is the major concern, space is limited and ease of installation is critical.
- In wet or dry locations when installed in accordance with NEC.
- In aerial, direct burial, conduit, open tray and underground duct installations.

Features:

- Rated at 105°C.
- Excellent heat and moisture resistance.
- Outstanding corona resistance.
- Flexibility for easy handling.
- High dielectric strength.
- Low moisture absorption.
- Electrical stability under stress.
- Low dielectric loss.
- Chemical-resistant.
- Meets cold bend test at -35°C.



CUSTOM CABLE CATALOG NUMBER	SIZE	GROUND WIRE SIZE	NOMINAL WEIGHT	COPPER WEIGHT	AMPACITY		
	AWG/kcmil	AWG	lbs/1000ft	lbs/1000ft	Conduit in Air (1)	Underground Duct (2)	Direct Burial (3)
THREE CONDUCTOR 15kV, UL TYPE MV-105, 133% INS. LEVELS, 220 MIL							
13680	2	6	2226	929	165	160	185
13681	1/0	4	2811	1332	215	210	240
13682	2/0	4	3163	1601	245	235	275
13683	4/0	3	4203	2412	320	305	360
13684	250	2	4775	2838	350	335	400
13685	350	2	6182	3795	430	400	490
13686	500	1	7686	5276	525	485	600
13687	750	1/0	10978	7799	635	585	745
13688	1000	2/0	18983	10200	725	660	860

Dimensions and weights are nominal; subject to industry tolerances.

- (1) Ampacities are in accordance with Table 310-75 of the NEC for three conductor copper cable in isolated conduit in air, based on a conductor temperature of 105°C (221°F) and an ambient air temperature of 40°C (104°F).
- (2) Ampacities are in accordance with Table 310-79 of the NEC for three conductor copper cable in underground ducts (three conductors per duct), based on a conductor temperature of 105°C (221°F) and an ambient earth temperature of 20°C (68°F), electrical duct arrangement per Figure 310.1, 100% load factor, and earth thermal resistance (rho) of 90.
- (3) Ampacities are based on single conductor Type MV-105 sizes #1/0 AWG and larger in an uncovered tray in accordance with Section 392-13(B) of the NEC at an ambient air temperature of 40°C (104°F), the ampacities are based on 75% of the values per Table 310-69. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed 95% of the value shown above.

Industry Approval:

- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- AEIC CS8.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (70,000 BTU/hr).
- Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method.
- OSHA acceptable.
- Optional Flame Tests:
- IEEE 1202 (70,000 BTU/hr)/CSA FT4.
- ICEA T-29-520 (210,000 BTU/hr).

Packaging:

- Material cut to length and shipped on non-returnable wood reels. Lengths in excess of 10,000 lbs. are provided on returnable steel reels that require a deposit.
- Extra charges apply for cuts less than 1000 ft., lagging, pulling eyes, paralleling and plexing.

Custom Cable Corp.