

MEDIUM POWER CABLE

THREE CONDUCTOR EPR INSULATION/COPPER TAPE SHIELD WITH OVERALL PVC JACKET, SHIELDED 5KV AND 8KV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MIL INSULATION

Construction

Conductor:

- 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:

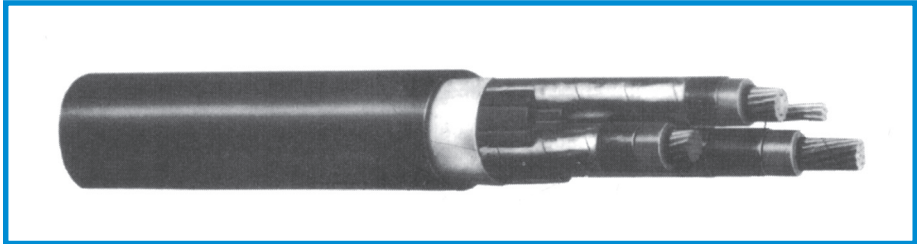
- Low-Smoke, Zero-Halogen (LSZH) jacket.

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	COND. SIZE	GROUND WIRE SIZE	NOM. CABLE WEIGHT	COPPER WEIGHT	AMPACITY	AMPACITY
	AWG/kcmil	AWG	lbs./1000ft.	lbs./1000ft.	Conduit in Air (1)	Underground Duct (2)
THREE CONDUCTOR 5kV AND 8kV, UL TYPE MV-105, 133% / 100% INS. LEVELS, 115 MIL						
13180	6	6	939	458	92	95
13181	4	6	1158	621	120	125
13182	2	6	1511	863	165	160
13183	1/0	4	2030	1289	215	210
13184	2/0	4	2449	1561	245	235
13185	4/0	3	3438	2345	320	305
13186	250	2	3893	2859	350	335
13187	350	2	5009	3738	430	400
13188	500	1	6793	5221	525	485
13189	750	1/0	9833	7767	635	585
13190	1000	2/0	12601	10091	725	660

Dimensions and weights are nominal; subject to industry tolerances.

- 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).
- 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.

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).
- 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.