

# LOW SMOKE, ZERO HALOGEN (LSZH) 3 CONDUCTOR, 15kV SHIELDED

EPR/COPPER TAPE SHIELD WITH OVERALL LSZH JACKET, MEDIUM-VOLTAGE POWER, SHIELDED 15kV, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR

## Construction

### Conductor:

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

### Extruded Strand Shield (ESS):

- 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 (EIS):

- 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.

### Overall Jacket:

- Flame-retardant, moisture- and sunlight-resistant, Low-Smoke, Zero-Halogen Polyolefin (LSZH)

### Print:

- 3/C SIZE (AWG OR KCMIL) COMPACT CU LSZH JKT (INSULATION THICKNESS) EPR TYPE MV-105 (VOLTAGE) KV% INSULATION LEVEL SUN RES FOR CT USE (UL) SEQUENTIAL FOOTAGE MARK.

### 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.
- For use in direct burial if installed in a system with a ground conductor that is in close proximity, and conforms with NEC 250.4(A)(5).

### 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.

### Compliances:

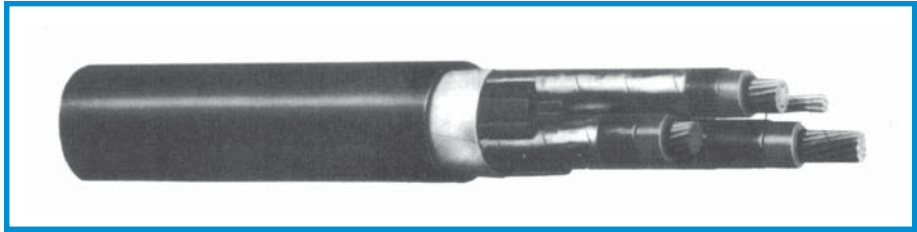
- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- ICEA T-33-655.
- AEIC CSB.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (70,000 BTU/hr.)
- OSHA acceptable.

### 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, and paralleling.



CUSTOM CATALOG NUMBER	COND. SIZE	INSULATION DIAMETER (INCHES)		GROUND WIRE (AWG)	NOMINAL OVERALL JKT. THICKNESS INCHES	NOMINAL CABLE		AMPACITY		
	AWG/kcmil	MIN.	MAX.			DIAMETER INCHES	WEIGHT LBS./1000 FT.	CONDUIT IN AIR <sup>1</sup>	UNDERGROUND CONDUIT <sup>2</sup>	DIRECT BURIAL <sup>3</sup>
<b>15kV, UL TYPE MV-105, 133% INS. LEVEL, 220 MILS, THREE CONDUCTOR</b>										
18330*	2	0.710	0.800	6	0.110	2.04	2226	165	160	185
18331*	1/0	0.780	0.865	4	0.110	2.20	2811	215	210	240
18332*	2/0	0.820	0.905	4	0.110	2.30	3163	245	235	275
18333*	4/0	0.920	1.005	3	0.110	2.52	4203	320	305	360
18334*	250	0.970	1.060	2	0.110	2.66	4775	350	335	400
18335*	350	1.070	1.155	2	0.110	2.94	6182	430	400	490
18336*	500	1.190	1.275	1	0.140	3.21	7686	525	485	600
18337*	750	1.370	1.460	1/0	0.140	3.61	10978	635	585	745
18338*	1000	1.520	1.610	2/0	0.140	3.99	13938	725	660	860

\* Non-stock item, minimum runs apply. Please consult Customer Service for price and delivery.

<sup>1</sup> 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).

<sup>2</sup> 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 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

<sup>3</sup> 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 310-71. For cable trays with unventilated covers for more than 6 feet, the ampacities shall not exceed the values in NEC Table 310-75.

<sup>v</sup> 100% insulation level is available upon request.

Dimensions and weights are nominal; subject to industry tolerances.

Note: Sizes smaller than 1/0 AWG do not include "FOR CT USE".

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