

LOW SMOKE, ZERO HALOGEN (LSZH) 3 CONDUCTOR, 5kV / 8kV SHIELDED

EPR/COPPER TAPE SHIELD WITH OVERALL LSZH JACKET, MEDIUM-VOLTAGE POWER, SHIELDED 5kV AND 8kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR

Construction

Conductor:

- 6 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.

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:

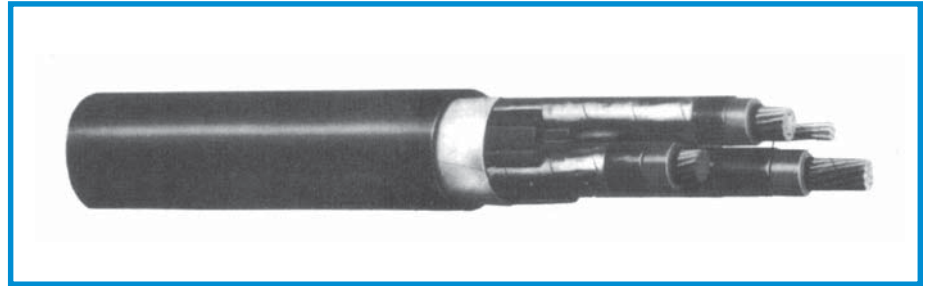
- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- ICEA T-33-655.
- AEIC CS8.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (70,000 BTU/hr.)
- OSHA acceptable.

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 1000ft., lagging, pulling eyes, paralleling and triplexing.



CUSTOM CATALOG NUMBER	COND. SIZE (AWG/kcmil)	INSULATION DIAMETER (INCHES)		GROUND WIRE (AWG)	NOMINAL JACKET THICKNESS (INCHES)	NOMINAL CABLE DIAMETER (INCHES)	NOMINAL CABLE WEIGHT (LBS./1000 FT.)	AMPACITY	
		MIN.	MAX.					CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)
5kV AND 8kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS, THREE CONDUCTOR									
18300*	6	0.415	0.490	6	0.080	1.29	939	92	95
18301*	4	0.455	0.535	6	0.080	1.39	1158	120	125
18302*	2	0.510	0.590	6	0.080	1.51	1511	165	160
18303*	1/0	0.580	0.655	4	0.080	1.67	2030	215	210
18304*	2/0	0.620	0.695	4	0.080	1.82	2449	245	235
18305*	4/0	0.720	0.795	3	0.110	2.07	3438	320	305
18306*	250	0.770	0.850	2	0.110	2.15	3968	350	335
18307*	350	0.870	0.945	2	0.110	2.36	5009	430	400
18308*	500	0.990	1.065	1	0.110	2.64	6793	525	485
18309*	750	1.170	1.250	1/0	0.140	3.14	9833	635	585
18310*	1000	1.330	1.400	2/0	0.140	3.48	12601	725	660

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

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 310.60 Detail 1, 100% load factor, and earth thermal resistance (rho) of 90.

Dimensions and weights are nominal; subject to industry tolerances.

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



Custom Cable Corp.

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