

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

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

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%.

Jacket:

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

Print:

- 1/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. *Sizes smaller than 1/0 AWG do not include "FOR CT USE".

Applications:

- Superior performance in petrochemical plants, pulp and paper mills, sewage and water treatment plants, environmental protection systems, railroads, mines, utility power generating stations, steel mills, textile plants and other industrial three-phase applications.
- For use in wet or dry locations when installed in accordance with NEC.
- For use in aerial, 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.
- Excellent flame 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:

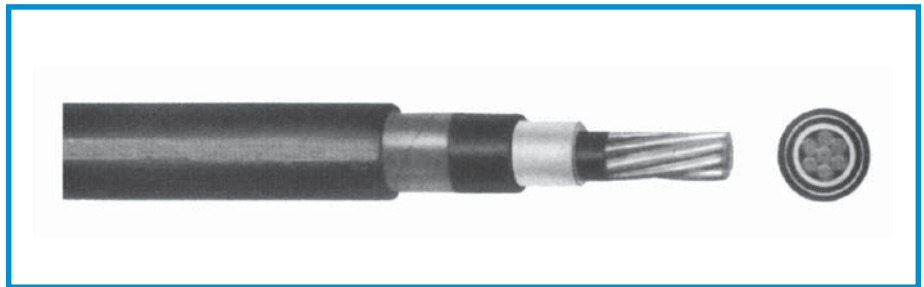
- National Electrical Code (NEC).
- UL 1072.
- ICEA S-93-639/NEMA WC74.
- ICEA S-97-682.
- AEIC CS8.
- UL listed as Type MV-105 for use in accordance with NEC.
- UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test.
- Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC.
- IEEE 1202 (70,000 BTU/hr.)/CSA FT4.
- Meets EPA 40 CFR, Part 2671 for leachable lead content per TCLP method.
- OSHA acceptable.

Optional Flame Tests:

- 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 triplexing.



CUSTOM CATALOG NUMBER	COND. SIZE (AWG/kcmil)	INSULATION DIAMETER (INCHES)		NOMINAL JACKET THICKNESS (INCHES)	NOMINAL CABLE DIAMETER (INCHES)	NOMINAL CABLE WEIGHT (LBS/1000 FT.)	AMPACITY		CONDUIT SIZING (3) (INCHES)
		MIN.	MAX.				CONDUIT IN AIR (1)	UNDERGROUND DUCT (2)	
5kV AND 8kV, UL TYPE MV-105, 133%/100% INS. LEVELS, 115 MILS									
18150*	6	0.415	0.490	0.060	0.65	295	93	97	2
18151*	4	0.455	0.535	0.060	0.70	365	120	125	2.5
18152	2	0.510	0.590	0.060	0.76	471	165	165	2.5
18153*	1	0.545	0.620	0.060	0.79	539	190	185	2.5
18154	1/0	0.580	0.655	0.060	0.82	623	215	215	3
18155	2/0	0.620	0.695	0.060	0.86	728	255	245	3
18156*	3/0	0.665	0.745	0.080	0.94	886	290	275	3
18157	4/0	0.720	0.795	0.080	1.00	1053	330	315	3
18158*	250	0.770	0.850	0.080	1.05	1199	365	345	3.5
18159	350	0.870	0.945	0.080	1.14	1559	440	415	3.5
18160	500	0.990	1.065	0.080	1.27	2088	535	500	4
18161	750	1.170	1.250	0.080	1.45	2962	655	610	5
18162*	1000	1.330	1.400	0.080	1.60	3815	755	690	5

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

- Ampacities are in accordance with Table 310-73 of the NEC for triplexed or three single 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 310-77 of the NEC for triplexed or three single 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 (ρ) of 90.
- Based on nominal cable diameters, three single cables in the duct (PVC Schedule 40) with no ground wire and a maximum of 40% fill. Jam ratio has been considered, but it should be checked for individual installations.

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.

242 Butler Street • Westbury, New York 11590-3193 • Tel: (516) 334-3600 • Toll Free: (800) 832-3600 • FAX: (516) 334-3989

www.customwireandcable.com • email: sales@customwireandcable.com