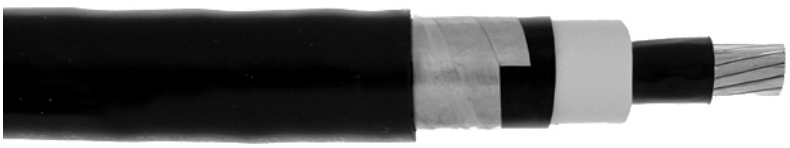
MEDIUM VOLTAGE POWER



- ***1 Conductor***
- ***EPR***
- ***PVC***
- ***Type MV-105***
- ***35kV - 133%***

PRODUCT CONSTRUCTION

Conductor: 1/0 AWG through 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: Lead-free, flame-retardant moisture- and sunlight-resistant Polyvinyl Chloride (PVC). Also available: (CPE) jacket.

APPLICATIONS

For use in aerial, conduit, open tray and underground duct installations. For use in wet or dry locations when installed in accordance with the NEC. Can be used in wet or dry locations when installed in accordance with the NEC. Can be used 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). 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.

FEATURES

Rated at 105ºC. Excellent heat, flame and moisture resistance. Outstanding corona resistance. High dielectric strength. Low moisture absorption. Electrically stable under stress. Low dielectric loss. Chemical-resistant. Meets cold bend test at -35ºC. loss.

COMPLIANCES

Industry: 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 the NEC. Sizes 1/0 AWG and larger are listed and marked "Sunlight-Resistant FOR CT USE" in accordance with NEC.
Flame Test: UL 1685 (Sizes 1/0 AWG and larger) UL Flame Exposure Test. IEEE 1202 (70,000 BTU/hr)/CSA FT4.
Optional Flame Test: ICEA T-29-520 (210,000 BTU/hr).
Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

USAWC Part #	AWG or kcmil	Area (mm²)	Thickness in Mils		Nominal Diameter Over Ins. (Inches)	Nominal Diameter (Inches)	Copper Conductor				
			Insulation	Jacket			Approx. Net Wt. (lbs./1000 ft.)	Shipping Weight (lbs./1000 ft.)	Ampacity*		
									Tray	Conduit	Duct
35000 Volts, Shielded, 133% Insulation Level											
USA1/0-0135KVESPU	1/0	53.5	420	80	1.25	1.50	1380	1541	290	215	215
USA2/0-0135KVESPU	2/0	67.4	420	80	1.29	1.54	1509	1693	335	255	245
USA3/0-0135KVESPU	3/0	85.0	420	80	1.34	1.59	1667	1851	385	290	275
USA4/0-0135KVESPU	4/0	107.0	420	80	1.39	1.64	1859	2046	445	330	315
USA250-0135KVESPU	250	127.0	420	80	1.44	1.68	2026	2213	495	365	345
USA350-0135KVESPU	350	177.0	420	110	1.53	1.84	2540	2777	610	440	415
USA500-0135KVESPU	500	253.0	420	110	1.63	1.94	3100	3405	765	535	500
USA750-0135KVESPU	750	380.0	420	110	1.82	2.13	4099	4476	990	655	610
USA1000-0135KVESPU	1000	507.0	420	110	1.97	2.28	5029	5888	1185	755	690

*TRAY: Single layer in uncovered cable tray with one cable diameter spacing, 105˚C Conductor Temperature, 40˚C Ambient. CONDUIT: Three cables in isolated conduit in air, 105˚C Conductor Temperature, 40˚C Ambient. DUCT: Three cables per duct, 105˚C Conductor Temperature, 20˚C Ambient, One Circuit, 100% Load Factor, Rho = 90. For other installation conditions refer to the NEC.

Table data: Okonite Section 2, Sheet 57; 420 mil (10.668 mm), 133% insulation level.