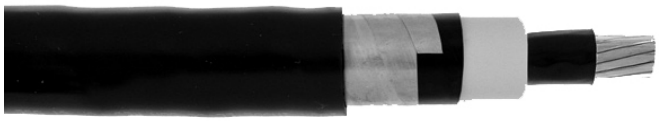
MEDIUM VOLTAGE POWER



- ***1 Conductor***
- ***EPR***
- ***PVC***
- ***Type MV-105***
- ***15kV – 133%***

PRODUCT CONSTRUCTION

Conductor: 2 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	No. of Strands	Thickness in Mils		Nominal Diameter Over Ins. (Inches)	Nominal Diameter (Inches)	Copper Conductor				
			Insulation	Jacket			Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)	Ampacity* Tray	Conduit	Duct
15000 Volts, Shielded, 133% Insulation Level											
USA2-0115KVESPU	2	7	220	80	.77	1.02	685	276	-	165	165
USA1-0115KVESPU	1	19	220	80	.81	1.06	760	332	-	190	185
USA1/0-0115KVESPU	1/0	19	220	80	.85	1.10	840	403	290	215	215
USA2/0-0115KVESPU	2/0	19	220	80	.89	1.14	955	492	335	255	245
USA3/0-0115KVESPU	3/0	19	220	80	.95	1.19	1115	603	385	290	275
USA4/0-0115KVESPU	4/0	19	220	80	1.00	1.25	1275	743	445	330	315
USA250-0115KVESPU	250	37	220	80	1.06	1.33	1465	866	495	365	345
USA350-0115KVESPU	350	37	220	80	1.16	1.43	1840	1184	610	440	415
USA500-0115KVESPU	500	37	220	80	1.29	1.56	2395	1657	765	535	500
USA750-0115KVESPU	750	61	220	110	1.48	1.81	3415	2445	990	655	610
USA1000-0115KVESPU	1000	61	220	110	1.63	1.98	4435	3228	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.