

MEDIUM VOLTAGE POWER



- ▶ **3 Conductors**
- ▶ **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, direct burial and underground duct installations. For use in wet or dry locations when installed in accordance with the NEC. Suitable for commercial, industrial and utility applications where space is limited, ease of installation is critical and reliability is the major concern.

FEATURES

Rated at 105°C. 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 -35°C.

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 (70,000 BTU/hr)

Optional Flame Test: IEEE 1202 (70,000 BTU/hr)/CSA FT4. ICEA T-29-520 (210,000 BTU/hr.)

Other: EPA 40 CFR, Part 261, for leachable lead content per TCLP. OSHA acceptable.

USAWC Part #	Size (AWG or kcmil)	No. of Strands	Thickness in Mils		Nominal Diameter Over Ins. (Inches)	Nom. Diam. (Inches)	Grounding Conductor Size (AWG)	Approx. Net Wt. (lbs./1000 ft.)	Copper Weight (lbs./1000 ft.)	Ampacity*	
			Insulation	Jacket						Conduit	Duct
15000 Volts – 133% Insulation Level											
USA2-0315KVESPU	2	7	220	110	.77	2.09	6	2410	913	165	185
USA1-0315KVESPU	1	19	220	110	.81	2.22	4	2690	1125	185	210
USA1/0-0315KVESPU	1/0	19	220	110	.85	2.26	4	2965	1343	215	240
USA2/0-0315KVESPU	2/0	19	220	110	.90	2.36	4	3330	1609	245	275
USA3/0-0315KVESPU	3/0	19	220	110	.95	2.52	3	3800	1972	280	315
USA4/0-0315KVESPU	4/0	19	220	110	1.00	2.59	3	4375	2398	320	360
USA250-0315KVESPU	250	37	220	110	1.06	2.75	2	5025	2812	350	400
USA350-0315KVESPU	350	37	220	110	1.16	3.04	2	6465	3766	430	490
USA500-0315KVESPU	500	37	220	140	1.29	3.32	1	8340	5244	525	600
USA750-0315KVESPU	750	61	220	140	1.48	3.73	1/0	11510	7682	635	745
USA1000-0315KVESPU	1000	61	220	140	1.61	3.99	2/0	13983	10124	725	860

*CONDUIT: Three-conductor cable in isolated conduit in air, 105°C Conductor Temperature, 40°C Ambient. AIR: Three-conductor cable isolated in air, 105°C Conductor Temperature, 40°C Ambient. For other installation conditions refer to the NEC.