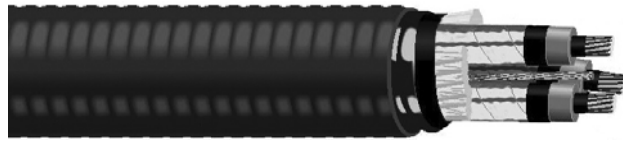


MC INTERLOCKED ARMORED



- ▶ **3 Conductors**
- ▶ **EPR**
- ▶ **AIA/PVC**
- ▶ **UL MC/MV-105**
- ▶ **15kV – 133%**

PRODUCT CONSTRUCTION

Conductor: 2 AWG through 750 kcmil bare copper compact, Class B strand.

Extruded Strand Shield (ESS): Thermoset semi-conducting stress-control layer over conductor.

Insulation: Ethylene Propylene Rubber (EPR) insulation, colored to contrast with black conducting layers.

Extruded Insulation Shield (EIS): Thermoset semi-conducting polymeric layer, free stripping from insulation.

Shield: 5 mil annealed copper tape with a minimum 25% overlap.

Ground: Annealed bare copper Class B stranding per ASTM B8.

Armor: Aluminum Interlocked Armor (AIA)

Jacket: Flame-retardant moisture- and sunlight-resistant Polyvinyl Chloride (PVC), red.

APPLICATIONS

For use in wet or dry locations, indoors or outdoors, in exposed or concealed work. May be used in cable trays or on approved support in protected areas. Permitted for use in Class I; Class II, Division 2; and Class III, Divisions 1 and 2 hazardous locations per the NEC. Ideal for use in commercial, industrial and utility applications where space is limited and reliability, maximum performance, ease of installation and fire resistance are important.

FEATURES

Rated at 105°C wet or dry. Excellent heat and moisture resistance. Outstanding corona resistance. Flexible for easy handling. High dielectric strength. Low moisture absorption. Electrically stable under stress. Low dielectric loss. Chemical- and radiation-resistant. Excellent crush resistance. Cost-effective alternative to installations in conduit. Meets cold bend test at -25°C.

COMPLIANCES

Industry: UL 1072. ICEA S-93-639/NEMA WC74. AEIC CS8. UL Type MV-105. UL Type MC.

Flame Test: IEEE 383 (70,000 BTU/hr). UL 1581 (70,000 BTU/hr). IEEE 1202 (70,000 BTU/hr) CSA FT4. ICEA T-29-520 (210,000 BTU/hr). ICEA T-30-520 (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	Insul. Thick. (Mils)	Nom. Diam. Over Ins. (Inches)	Nom. Diam. Over Armor (Inches)	PVC Jkt. Thick. (Mils)	Nom. Diam. Over PVC Jkt. (Inches)	Copper Grounding Conductor (AWG)	Weight (lbs./1000 ft.)			Ampacity*	Ampacity**
									Alum. Armor	Steel Armor	Copper		
15000 VOLTS, 133% INSULATION LEVEL													
USA2-0315KVESAIA	2	7	220	.78	2.11	60	2.24	6	2605	3125	919	165	185
USA1-0315KVESAIA	1	19	220	.82	2.20	60	2.33	4	2835	3390	1125	185	210
USA1/0-0315KVESAIA	1/0	19	220	.86	2.28	60	2.41	4	3100	3620	1352	215	240
USA2/0-0315KVESAIA	2/0	19	220	.91	2.39	75	2.55	4	3530	4025	1620	245	275
USA3/0-0315KVESAIA	3/0	19	220	.96	2.50	75	2.66	3	3990	4510	1972	280	315
USA4/0-0315KVESAIA	4/0	19	220	1.02	2.61	75	2.77	3	4615	5200	2114	320	360
USA250-0315KVESAIA	250	37	220	1.07	2.79	75	2.95	3	5315	5895	2789	350	400
USA350-0315KVESAIA	350	37	220	1.18	3.01	75	3.17	2	6600	7225	3790	430	490
USA500-0315KVESAIA	500	37	220	1.30	3.29	85	3.47	1	8710	9350	5276	525	600
USA750-0315KVESAIA	750	61	220	1.49	3.67	85	3.85	1/0	11695	12850	7738	635	745

*AMPACITY for cables installed in uncovered cable tray without maintained spacing: 105°C conductor temperature, 40°C ambient.

**AMPACITY for cables installed in uncovered cable tray with maintained spacing of one cable diameter: 105°C conductor temperature, 40°C ambient.

For other installation conditions refer to the NEC.