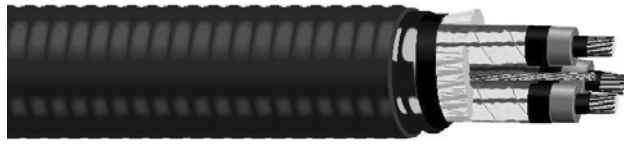


MC INTERLOCKED ARMORED



- ▶ **3 Conductors**
- ▶ **EPR**
- ▶ **AIA/PVC**
- ▶ **UL MC/MV-105**
- ▶ **5kV – 133%**
- ▶ **8kV – 100%**

PRODUCT CONSTRUCTION

Conductor: 4 AWG through 1000 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), yellow.

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 Armor (Inches)	PVC Jkt. Thick. (Mils)	Nom. Diam. Over PVC Jkt. (Inches)	Copper Phase Conductors						
							Copper Grounding Conductor (AWG)	Weight (lbs./1000 ft.)			Ampacity*	Ampacity**	
								Alum. Armor	Steel Armor	Copper			
5000 VOLTS – 133% INSULATION LEVEL or 8000 VOLTS – 100% INSULATION LEVEL													
USA4-035KVESAIA	4	7	115	1.44	50	1.54	6	1360	1745	619	100	115	
USA2-035KVESAIA	2	7	115	1.57	60	1.70	6	1775	2160	864	135	154	
USA1-035KVESAIA	1	19	115	1.65	60	1.78	4	2055	2475	1074	155	180	
USA1/0-035KVESAIA	1/0	19	115	1.78	60	1.91	4	2335	2745	1298	185	205	
USA2/0-035KVESAIA	2/0	19	115	1.88	60	2.01	4	2705	3130	1566	210	240	
USA3/0-035KVESAIA	3/0	19	115	1.99	60	2.12	3	2920	3375	1918	245	280	
USA4/0-035KVESAIA	4/0	19	115	2.11	60	2.24	3	3730	4290	2360	285	320	
USA250-035KVESAIA	250	37	115	2.23	60	2.36	3	4200	4770	2735	315	355	
USA350-035KVESAIA	350	37	115	2.46	75	2.62	2	5590	6220	3736	390	440	
USA500-035KVESAIA	500	37	115	2.77	75	2.93	1	7490	8210	5222	475	545	
USA750-035KVESAIA	750	61	115	3.18	85	3.37	1/0	10385	11195	7684	585	685	
USA1000-035KVESAIA	1000	61	115	3.50	85	3.69	1/0	13345	14150	10057	660	790	

*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.