



# POWER KABEL INC.

## TYPE MV-105 WELDED ARMOR 3 CONDUCTORS 2AWG-750KCMIL 15KV 133% COPPER EPR PVC

### APPLICATIONS & FEATURES

15KV WELDED ARMOR are cables for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload, 250°C for short circuit conditions, and -50°C for cold bend. For uses in Class I, II, and III, Division 1 and 2 hazardous locations per NEC Article 501, 502, and 503.

### INDUSTRY COMPLIANCES

ASTM B3 Standard Specification for Soft or Annealed Copper Wire	IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
ASTM B8 Concentric-Lay-Stranded Copper Conductors	IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
UL 1072 Medium-Voltage Power Cables	IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test	IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
	AEIC CS-8 Specification for extruded dielectric shielded power cables rated for 5 through 46KV

### CONSTRUCTION

<b>CONDUCTORS:</b>	7 strands class B compressed bare copper per ASTM B3 and ASTM B8
<b>CONDUCTOR SHIELD:</b>	Semi-conducting cross-linked copolymer
<b>INSULATION:</b>	Ethylene Propylene Rubber (EPR) 133% Insulation Level,
<b>INSULATION SHIELD:</b>	Stripable semi-conducting cross-linked copolymer
<b>COPPER TAPE:</b>	Helically wrapped 5 mil copper tape with 25% overlap
<b>GROUNDING:</b>	Class B compressed stranded bare copper ground per ASTM B3 and ASTM B8
<b>FILLER:</b>	Paper filler
<b>BINDER:</b>	Polypropylene tape
<b>ARMOR:</b>	Continuous Corrugated Welded Armor
<b>JACKET:</b>	Polyvinyl Chloride (PVC) Jacket

AWG	No of CONDUCTORS	STRANDS	INSULATION THICKNESS (MILS)	GROUND AWG	OUTSIDE DIAMETER (INCHES)	POUNDS PER 1000 FT
2	3	7	220	6	2460	2674
1/0	3	19	220	4	2700	3358
2/0	3	19	220	4	2700	3640
4/0	3	19	220	3	2900	4769
250	3	37	220	2	3030	5333
350	3	37	220	2	3390	7407
500	3	37	220	1	3710	8900
750	3	58	220	1/0	4020	12407

All values are nominal and subject to correction.