

## **POWER KABEL INC.**

## TYPE MV-105, VFD WELDED ARMOR 3 CONDUCTORS 2AWG-750KCMIL 5KV 133% COPPER EPR PVC

## **APPLICATIONS & FEATURES**

5KV WELDED ARMOR MC HL 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. Suitable for VFD application.

## **INDUSTRY COMPLIANCES**

ASTM B3 Standard Specification for Soft or Annealed Copper Wire ASTM B8 Concentric-Lay-Stranded Copper Conductors UL 1072 Medium-Voltage Power Cables UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test ICEA S-93-639 (NEMA WC 74) 5-46 KV Shielded Power Cable 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						
CONDUCTORS:	7 strands class B compressed bare copper per ASTM B3 and ASTM B8					
CONDUCTOR SHIELD:	Semi-conducting cross-linked copolymer					
INSULATION:	Ethylene Propylene Rubber (EPR) 133% Insulation Level,					
INSULATION SHIELD: Stripable semi-conducting cross-linked copolymer						
COPPER TAPE: Helically wrapped 5 mil copper tape with 25% overlap						
GROUNDING:	3 Class B compressed stranded bare copper ground per ASTM B3 and ASTM B8					
FILLER:	Paper filler					
BINDER:	Polypropylene tape					
ARMOR:	Continuous Corrugated Welded Armor					
JACKET:	Polyvinyl Chloride (PVC) Jacket					

	AWG	No of CONDUCTORS	STRANDS	INSULATION THICKNESS (MILS)	GROUND AWG	OUTSIDE DIAMETER (INCHES)	POUNDS PER 1000 FT	
	2	3	7	1115	10	1810	1904	
	1/0	3	19	115	8	2160	2524	
	2/0	3	19	115	8	2160	2800	
	4/0	3	19	115	6	2440	3987	
	250	3	37	115	6	2440	4692	
	350	3	37	115	6	2700	5902	
	500	3	37	115	4	3030	7534	
	750	3	61	115	4	3710	10969	
A	All values are nominal and subject to correction.							