



**5KV - SUBMERSIBLE PUMP
 SHIELDED POWER CABLE
 TYPE MV-105**



3 CONDUCTORS WITH GROUND

INSULATION: (EPR) ETHYLENE-PROPYLENE RUBBER

OUTER JACKET: (PVC) POLYVINYL CHLORIDE OVERALL

SIZES: 8 AWG - 750 MCM

90°C DRY / 75°C WET



1.0 APPLICATIONS:

1.1 Shielded, Medium Voltage and UL listed wet and dry locations. Suitable for use as a submersible cable. Direct Burial rated.

2.0 CONSTRUCTION:

2.1 Conductors:

Consist of uncoated soft, copper strands meeting the requirements of ASTM B3. Conductor shall be supplied as Class B compact per ASTM B496.

2.2 Conductor Shield:

Consists of an extruded semiconducting layer.

2.3 Insulation:

The insulation is ethylene-propylene rubber (EPR) extruded in a single pass with the conductor and insulation shields to the wall thickness.

2.4 Insulation Shielding:

Consist of a semi-conducting extruded compound and a 5 mil bare copper metallic tape shield overlapped a minimum of 20%.

2.5 Conductor Coding:

Phase identification for multiconductor cables is provided by a colored stripe on the insulation shield of each of the conductors (red, black, white).

2.6 Ground:

Standard multi-conductor cables include one stranded bare copper ground in one of the outer cable interstices. The ground wire is sized per UL requirements. Custom ground wire sizes and configurations are available upon request..

2.7 Assembly:

Conductors and ground wire are cabled together with a left hand lay and suitable fillers are used in the interstices to round out the cable cross section. A mylar binder tape is applied overall.

2.8 Jacket:

A sunlight and ozone resistant jacket of polyvinyl chloride (PVC) or chlorinated polyethylene (CPE) is extruded over the single and multiconductor assembly.

3.0 STANDARDS AND RATINGS:

3.1 Conforms to ICEA S-93-639/NEMA WC74 and AEIC CS8 for Extruded Dielectric Shielded Power Cable 5-46KV.

3.2 Cable listed by UL as Type MV-105 or MC per Standard 1072.

3.3 Listed by UL as Sunlight Resistant, for Direct Burial and For CT Use.

3.4 Listed by CSA as Type Power Cable per Standard SCA C68.3 (with -40°C PVC jacket).

4.0 Dimensions

105°C CONDUCTOR TEMPERATURE, WET OR DRY, 100% OR 133% INSULATION LEVEL

Paige Part Numbers	CONDUCTOR				Insulation mils	Jacket mils	Size AWG Cooper Ground Wire	Approximate O.D.		Approx. Weight lbs/1000 ft	Ampacity (1) 40°C Ambient Temp.
	Size	No. of Insulated Conductors	No. of Strands	Nominal O.D.				inches	mm		
070800	8	3	7	0.14	90	80	8	1.17	29.72	735	66
070801	6	3	7	0.18	90	80	6	1.24	31.50	915	88
070802	4	3	7	0.23	90	80	6	1.34	34.04	1135	115
070803	2	3	7	0.27	90	80	6	1.43	36.32	1440	154
070804	1	3	19	0.32	90	80	4	1.55	39.37	1745	180
070805	1/0	3	19	0.34	90	80	4	1.58	40.13	1980	205
070806	2/0	3	19	0.38	90	80	4	1.66	42.16	2310	240
070807	3/0	3	19	0.42	90	110	3	1.83	46.48	2855	280
070808	4/0	3	19	0.48	90	110	3	1.94	49.28	3375	320
070809	250	3	37	0.52	90	110	2	2.07	52.58	3915	355
070810	350	3	37	0.62	90	110	2	2.28	57.91	5065	440
070811	500	3	37	0.74	90	110	1	2.53	64.26	6810	545
070812	750	3	61	0.91	90	140	1/0	3.05	77.47	9970	685
070813	1000	3	61	1.12	90	140	2/0	3.49	88.65	12960	790

Ampacity based on one three conductor cable isolated in air per NEC.