



15KV - SUBMERSIBLE PUMP SHIELDED POWER CABLE TYPE MV-105

3 CONDUCTORS WITH GROUND

INSULATION: (EPR) ETHYLENE-PROPYLENE RUBBER

OUTER JACKET: (PVC) POLYVINYL CHLORIDE OVERALL

SIZES: 2 AWG - 1000 MCM

105°C DRY / 105°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, blue).

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		

THREE CONDUCTOR 15000 VOLT, SHIELDED, 100% INSULATION LEVEL

7376S15K1	2	3	7	0.27	175	110	4	1.88	47.75	1975	185
7376S15K2	1	3	19	0.32	175	110	4	2.00	50.80	2315	210
7376S15K3	1/0	3	19	0.34	175	110	4	2.03	51.56	2560	240
7376S15K4	2/0	3	19	0.38	175	110	4	2.11	53.94	2915	275
7376S15K5	3/0	3	19	0.42	175	110	3	2.21	56.13	3395	315
7376S15K6	4/0	3	19	0.48	175	110	3	2.33	59.18	3940	360
7376S15K7	250	3	37	0.52	175	110	2	2.45	62.23	4515	400
7376S15K8	350	3	37	0.62	175	110	2	2.71	68.83	5795	490
7376S15K9	500	3	37	0.74	175	140	1	3.03	76.96	7770	600
7376S15K10	750	3	61	0.91	175	140	1/0	3.44	87.37	10815	745
7376S15K11	1000	3	61	1.12	175	140	2/0	3.92	99.57	14025	860

THREE CONDUCTOR 15000 VOLT, SHIELDED, 133% INSULATION LEVEL

7376S15K12	2	3	7	0.27	220	110	4	2.08	52.83	2265	185
7376S15K13	1	3	19	0.32	220	110	4	2.20	55.88	2610	210
7376S15K14	1/0	3	19	0.34	220	110	4	2.23	56.64	2855	240
7376S15K15	2/0	3	19	0.38	220	110	4	2.32	58.93	3225	275
7376S15K16	3/0	3	19	0.42	220	110	3	2.42	61.47	3715	315
7376S15K17	4/0	3	19	0.48	220	110	3	2.53	64.26	4275	360
7376S15K18	250	3	37	0.52	220	110	2	2.70	68.58	4945	400
7376S15K19	350	3	37	0.62	220	110	2	2.97	74.44	6340	490
7376S15K20	500	3	37	0.74	220	140	1	3.23	82.04	6200	600
7376S15K21	750	3	61	0.91	220	140	1/0	3.85	97.80	11300	745
7376S15K22	1000	3	61	1.12	220	140	2/0	4.13	104.90	14570	860

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