

**SUBMERSIBLE INTERLOCKED
ARMORED PUMP CABLE SHIELDED
5kV TYPE MV-90 OR TYPE MC
3 CONDUCTORS WITH GROUND**

INSULATION: XLPE

OUTER JACKET: PVC

SIZES: **8 AWG – 1000 MCM**

90°C WET/DRY



1.0 Applications:

- 1.1** Armored, shielded 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 semi-conducting layer.

2.3 Insulation:

Cross-linked polyethylene (XLP) extruded concentrically over the conductor to the wall thickness. (100% and 133% insulation level.)

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 is provided by a printed color stripe on each insulated conductor (red, black, white).

2.6 Ground:

One stranded bare copper ground in one of the outer cable interstices.

2.7 Assembly:

Conductors and ground wire are cabled together with a left hand lay and suitable fillers to make the cable round. A binder tape is applied.

2.8 Armor:

Over the taped assembly there is an interlocking armor of either aluminum or galvanized steel.

2.9 Jacket:

A protective sunlight and ozone resistant jacket of polyvinyl chloride (PVC) or chlorinated polyethylene (CPE) is extruded for a tight fit over the interlocked armor.

2.10 Temperature:

90°C – Per ICEA S-66-534/ NEMA WC-7.

3.0 Standards and Ratings:

- 3.1 Conforms to ICEA S-93-639/NEMA WC74 Shielded Power Cable 5-46KV.
- 3.2 Cable listed by UL as Type MV-90 or MC per Standard 1072.
- 3.3 Listed by UL as Sunlight Resistant, for Direct Burial, For CT Use and IEEE 1202.
- 3.4 Listed by UL as For CT Use and LS (jacket Only).
- 3.5 Conforms to ICEA T-29-520 210 KBTU/HR Vertical Tray Flame Test (PVC jacket only).

4.0 Dimensions:

CONDUCTOR				INSULATION	JACKET	SIZE AWG COPPER GROUND WIRE	APPROXIMATE O.D.		APPROX. WEIGHT	AMPACITY (1) 40°C AMBIENT TEMP.
SIZE	No. of Insulated Conductors	No. of Strands	Nominal O.D.	mils	mils		inches	mm	lbs/1000 ft	
8	3	7	0.14	90	50	8	1.29	32.77	810	59
6	3	7	0.18	90	50	6	1.37	34.80	990	79
4	3	7	0.23	90	50	6	1.46	37.08	1215	105
2	3	7	0.27	90	60	6	1.55	39.37	1525	140
1	3	19	0.32	90	60	4	1.69	49.93	1865	160
1/0	3	19	0.34	90	60	4	1.72	43.69	2100	185
2/0	3	19	0.38	90	60	4	1.81	45.97	2440	215
3/0	3	19	0.42	90	60	3	2.08	52.83	2985	250
4/0	3	19	0.48	90	60	3	2.19	55.63	3510	285
250	3	37	0.52	90	60	2	2.32	58.93	4060	320
300	3	37	0.61	90	75	2	2.54	64.52	4790	355
350	3	37	0.62	90	75	2	2.55	64.77	5290	395
400	3	37	0.71	90	75	1	2.75	69.85	6025	420
500	3	37	0.74	90	75	1	2.81	71.37	7050	485
600	3	61	0.87	90	85	1/0	3.19	81.03	8580	540
750	3	61	0.91	90	85	1/0	3.28	83.31	10150	615
1000	3	61	1.12	90	85	2/0	3.72	94.49	13155	705

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

P7308-SP