

P7331-SP

FLAT SUBMERSIBLE PUMP CABLE

INSULATION: POLYVINYL CHLORIDE AND NYLON

JACKET: HIGH DENSITY POLYETHYLENE

SIZES: 10 - 4 AWG, 3 CONDUCTOR WITH GROUND

600 VOLTS, 90°C Dry, 75°C Wet


1.0 APPLICATIONS: 2.4

1.1 600 volt, submersible pump cable with polyvinyl chloride (PVC) insulated and nylon jacketed circuit and grounding conductors, with an overall high density polyethylene (PE) jacket. The cable is suitable for use within well casings for wiring deep-well submersible methane pumps.

2.0 CONSTRUCTION:
2.1 Conductor:

Class B (37 strand), soft drawn, bare copper per ASTM B3 and ASTM B8.

2.2 Insulation:

Heat and moisture resistant, polyvinyl chloride meeting the requirements of UL 83 for Type THHN and THWN wires. The insulation is acceptable for use in locations at 90°C dry or 75°C wet. The insulation thickness is in accordance with Table 25.1 of UL 83.

2.3 Conductor Jacket:

A nylon jacket is applied directly to the surface of the PVC insulation. Nylon shall meet the requirements of UL 83. The thickness is in accordance with Table 25.1 of UL 83.

2.4 Ground Conductor:

Class C (19 strand), soft drawn, bare copper per ASTM B3 and ASTM B8. The conductor is insulated with PVC/Nylon and the nominal overall diameter shall equal the insulated circuit conductors.

2.5 Assembly:

The insulated circuit and grounding conductors are laid flat and parallel together. The jacket will be applied directly over the insulated conductors encapsulating them.

2.6 Jacket:

Heat and moisture resistant, black high density polyethylene (PE) meeting the requirements of UL 83. The thickness is in accordance with Table 25.5 of UL 83.

2.7 Color Code:

Black, yellow, red & green grounding conductor.

2.8 Surface Marking:

The overall jacket will have the following information printed: SUBMERSIBLE PUMP CABLE NUMBER AND SIZE OF CONDUCTORS, THHN OR THWN CDRS 75°C WET 600V(UL)

NUMBER OF INSULATED CONDUCTORS	CONDUCTOR SIZE (AWG)	GROUNDING CONDUCTOR SIZE (AWG)	INSULATION THICKNESS PVC/NYLON (MIL)	JACKET THICKNESS (MIL)	CABLE WEIGHT (LB/MFT)	CABLE O.D.
3	10	10	20/4	30	210	0.76 X 0.24
3	8	10	30/5	45	360	1.01 X 0.32
3	6	8	30/5	45	487	1.17 X 0.36
3	4	8	40/6	45	721	1.47 X 0.44