

IMPACT - METHANE PUMP CABLE
600 VOLT, 3 CONDUCTOR WITH GROUND
INSULATION: POLYVINYL CHLORIDE & NYLON
OUTER JACKET: HIGH DENSITY POLYETHYLENE
SIZES: 10 - 4 AWG
90°C WET / 75°C DRY



1.0 Applications:

- 1.1** Cable is designed for extra hard duty use in Methane mines where flexibility and the toughness of armor is needed. The jacket, made with an extra hard duty, abrasion and impact resistant compound, minimizes potential damage and stops gas from migrating in the first place. Tight construction minimizes potential gas migration should the jacket be damaged. The cable is rated for use in Deep Well Submersible Methane Gas Applications at temperatures not to exceed 75°C.

2.0 Construction:

- 2.1 Conductors:**
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 of 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 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:
PAIGE IMPACT PUMP CABLE
NUMBER AND "size of conductor"
THHN OR THWN CRDS 75°C WET
600 V(UL)

3.0 DIMENSIONS:

PAIGE PART #	CONDUCTOR SIZE (AWG)	NUMBER OF INSULATED CONDUCTORS	GROUNDING CONDUCTOR SIZE (AWG)	CABLE OD	INSULATION THICKNESS PVC/NYLON		JACKET THICKNESS		TOTAL WEIGHT	
					Inches	mm	Inches	mm	(lbs)	kgs/km
020036PE	10	3	10	0.76 X 0.24	0.020/0.004	0.508/0.1016	0.030	0.760	210	95.3
020046PE	8	3	10	1.01 X 0.32	0.030/0.005	0.762/0.127	0.045	1.140	360	163.3
020056PE	6	3	8	1.17 X 0.36	0.030/0.005	0.762/0.127	0.045	1.140	487	220.9
020066PE	4	3	8	1.47 X 0.44	0.040/0.006	1.016/0.1524	0.045	1.140	721	327.0

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