



**TWISTED UNJACKETED  
600 VOLTS TYPE THW  
SUBMERSIBLE PUMP CABLE  
2 & 3 CONDUCTORS WITH GROUND  
INSULATION: THW - POLYVINYL CHLORIDE  
SIZES: 14 AWG - 8 AWG, 75°C TO 75°C**



**1.0 APPLICATIONS:**

**1.1** Multi-conductor twisted submersible pump cable covers requirements of thermoplastic insulated conductors for deep water submersible application.

**2.0 CONSTRUCTION:**

**2.1 Conductors:**  
Solid or stranded soft annealed copper. Conductors are twisted with a suitable lay.

**2.2 Insulation:**  
The insulation shall be Thermoplastic Polyvinyl Chloride (PVC).

**2.3 Color Code:**  
Black, Yellow, Red, Green - Ground

**2.4 Assembly:**

The individually insulated conductors are twisted with a green insulated grounding conductor (sized in accordance with Table 250-122 of NEC) and without an overall jacket.

**2.5 Labeling:**

For use in Well Casings as "SUBMERSIBLE PUMP CABLE".

**2.6 Surface Markings:**

"PAIGE ELECTRIC SIZE, 600V TYPE THW SUBMERSIBLE PUMP CABLE (UL)".

**3.0 Approvals:**

UL: E207132  
MSHA: P-7K-26801 (CPE);  
P-7K-268077 (NEOPRENE)  
C(UL): E207132  
CSA: 1523058

| Conductor Size<br>AWG | Number of Insulated Conductors | Ground Size<br>AWG | Power Conductor Stranding | Insulation Thickness<br>MIL | Jacket Thickness<br>MIL | Cable O.D. |        | Cable Weight<br>lbs/mft* | Ampacity (1)<br>40°C<br>Ambient Temp. |
|-----------------------|--------------------------------|--------------------|---------------------------|-----------------------------|-------------------------|------------|--------|--------------------------|---------------------------------------|
|                       |                                |                    |                           |                             |                         | Inches     | mm     |                          |                                       |
| 14                    | 2                              | 14                 | SOLID                     | .045"                       | .030"                   | 0.358      | 9.093  | 67                       | 15                                    |
| 12                    | 2                              | 12                 | SOLID                     | .045"                       | .030"                   | 0.426      | 10.820 | 94                       | 20                                    |
| 10                    | 2                              | 10                 | SOLID                     | .045"                       | .030"                   | 0.476      | 12.090 | 136                      | 30                                    |
| 8                     | 2                              | 10                 | 7 STR                     | .060"                       | .030"                   | 0.533      | 13.090 | 197                      | 40                                    |
| 14                    | 3                              | 14                 | SOLID                     | .045"                       | .030"                   | 0.380      | 9.625  | 89                       | 15                                    |
| 12                    | 3                              | 12                 | SOLID                     | .045"                       | .030"                   | 0.425      | 10.795 | 125                      | 20                                    |
| 10                    | 3                              | 10                 | SOLID                     | .045"                       | .030"                   | 0.460      | 11.684 | 180                      | 30                                    |
| 8                     | 3                              | 10                 | 7 STR                     | .060"                       | .030"                   | 0.550      | 13.970 | 275                      | 50                                    |

Ampacities (Amps per conductor) are based on 30°C ambient temperature in air. 90°C conductor temperature per the 2002NEC Table 400-5 (B)