



Flat Parallel Pump 600 Volt Cable Type THW

600 Volts, Stranded Copper Conductors. Polyvinyl Chloride (PVC) Insulation. Water Well Cable, Moisture Resistant, Flat Parallel. Rated 75°C,



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Solid soft drawn or fully annealed bare copper per ASTM B3. Stranded class B compressed bare copper ASTM B8
- Insulation:** Polyvinyl Chloride (PVC) Type THW

APPLICATIONS AND FEATURES:

For use in residential, farm and industrial water well applications. Grounded and ungrounded water well cable systems. Conductors are twisted and colored black, red, and yellow when supplied with three conductors and green ground. Cable is supplied without an overall jacket.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE® SUBMERSIBLE PUMP CABLE TYPE THW X AWG (X.XX{mm²}) W/GRD 600 VOLTS





Table 1 – Weights and Measurements

| Stock Number | Cond. Size AWG/Kcmil | Cond. Number No. | Cond. Strands No. | Diameter Over Conductor inch | Insul. Thickness mil | Ground No. x AWG | Approx. OD inch | Approx. Weight lb/1000ft |
|--------------|-------------------------|---------------------|----------------------|---------------------------------|-------------------------|---------------------|--------------------|-----------------------------|
| 563661◇ | 12 | 4 | 19 | 0.090 | 30 | 1 x 12 | 0.185 X 0.830 | 126 |

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

Table 2 – Electrical and Engineering Data

| Cond. Size AWG/ Kcmil | DC Resistance @ 25°C Ω/1000ft | AC Resistance @ 90°C Ω/1000ft | Inductive Reactance Ω/1000ft | Max Pull Tension lb | Min Bending Radius inch | Allowable Ampacity At 75°C Amp | Allowable Ampacity At 90°C Amp |
|-----------------------------|-------------------------------------|-------------------------------------|------------------------------------|---------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| 12 | 1.662 | 2.002 | 0.054 | 167 | 3.3 | 20 | 24 |

* Inductive impedance is based on non-ferrous conduit with one diameter spacing.

