



Flat Jacketed Heavy Duty 600 Volt Cable Type THW

600V, Water Well Cable, Moisture Resistant, PVC Insulation, Flat Parallel, Black PVC Jacket. Rated 75°C,



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B, stranded soft drawn bare copper per ASTM B8
2. **Insulation:** Polyvinyl Chloride (PVC) Type THW
3. **Ground:** Green Polyvinyl Chloride (PVC) Type THW
4. **Jacket:** Black Polyvinyl Chloride (PVC)

APPLICATIONS AND FEATURES:

For use in residential, farm and industrial water well applications. Used in both Grounded and ungrounded water well cable systems. Conductors are parallel and insulated with PVC colored black, red, and yellow. Insulated and jacketed with a Black Polyvinyl Chloride (PVC) material. Oil resistant. Used in both high temperature and low temperature wells

SPECIFICATIONS:

- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables

SAMPLE PRINT LEGEND:

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





Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Cond. Number | Cond. Strands | Diameter Over Conductor | Insul. Thickness | Ground | Jacket Thickness | Approx. OD | Approx. Weight |
|--------------|------------|--------------|---------------|-------------------------|------------------|-----------|------------------|-------------|----------------|
| | AWG/Kcmil | No. | No. | inch | mil | No. x AWG | mil | inch | lb/1000ft |
| 563682◇ | 8 | 2 | 19 | 0.143 | 60 | 1 x 10 | 45 | 0.370x0.850 | 280 |

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

***Conductor number does not include ground**

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Electrical and Engineering Data

| Cond. Size | DC Resistance @ 25°C | AC Resistance @ 90°C | Inductive Reactance | Max Pull Tension | Min Bending Radius | Allowable Ampacity At 75°C | Allowable Ampacity At 90°C |
|------------|----------------------|----------------------|---------------------|------------------|--------------------|----------------------------|----------------------------|
| AWG/Kcmil | Ω/1000ft | Ω/1000ft | Ω/1000ft | lb | inch | Amp | Amp |
| 8 | 0.653 | 0.786 | 0.052 | 264 | 3.4 | 50 | 55 |

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

