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}

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

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
563683◊	8	3	19	0.143	60	1 x 10	45	0.370x1.120	381

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	396	5.6	50	55

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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved