Round Water Well 600 Volt Cable Type THW

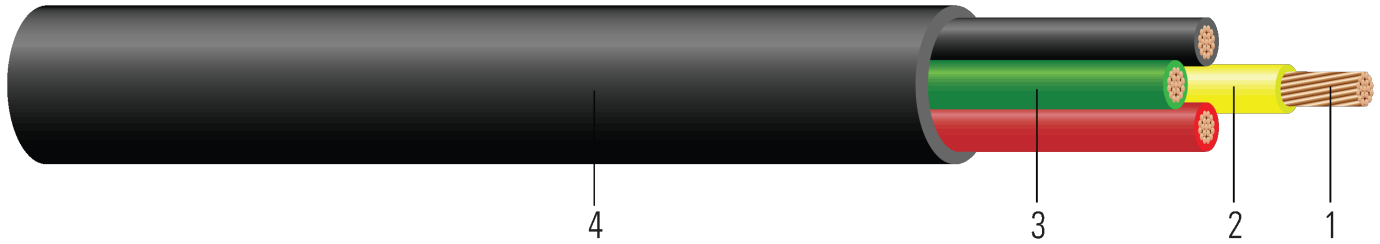600V Extreme, Oil-Resistant, Moisture Resistant Conditions. Rated 75°C

4   3   2   1

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Stranded class B compressed bare copper ASTM B8
2. **Insulation:** Polyvinyl Chloride (PVC) Type THW
3. **Jacket:** Thermoplastic elastomer (TPE)

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 premium thermoplastic elastomer (TPE) 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 (X.XX{mm2}) W/GRD 600 VOLTS {UL}

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Ground	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	No. x AWG	inch	lb/1000ft
566483◊	12	3	19	0.090	45	1 x 12	0.494	154

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
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.
* Cond. Number does not include ground conductor.

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
12	1.662	2.002	0.054	167	2.0	20	24

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

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