Round Water Well Cable Type THW

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

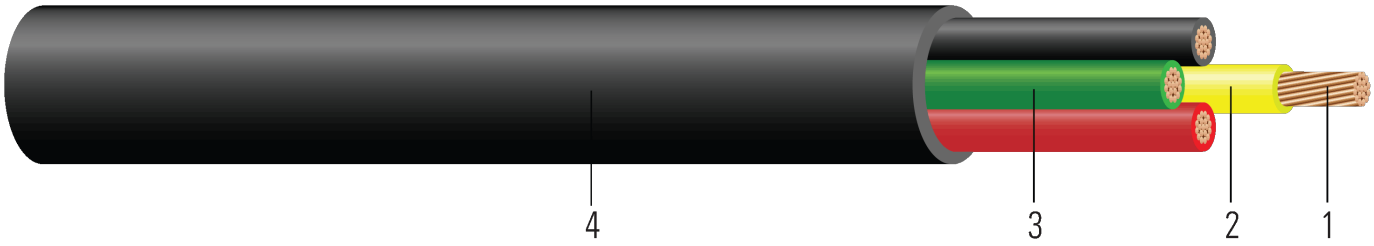

Image not to scale. See Table 1 for dimensions.

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	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	inch	lb/1000ft
584705◊	12	3	19	0.088	30	0.448	105
584707◊	10	3	19	0.113	30	0.498	148
584709◊	6	3	19	0.177	30	0.709	369
584710◊	4	3	19	0.225	30	0.811	537
566483◊	12	4	19	0.088	30	0.494	150
566484◊	10	4	19	0.113	30	0.550	208
584708◊	8	4	19	0.141	30	0.632	260
566485◊	8	4	19	0.141	30	0.670	306
566486◊	6	4	19	0.177	30	0.764	446
566487◊	4	4	19	0.225	30	0.856	614

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	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance	Max Pull Tension	Max Pull Tension	Min Bending Radius	Allowable Ampacity At 60°C	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	lb	inch	Amp	Amp	Amp
12	1.662	2.002	0.054	156	156	1.7	20	25	30
10	1.040	1.253	0.050	249	249	1.9	30	35	40
6	0.411	0.495	0.051	629	629	2.8	55	65	75
4	0.258	0.310	0.048	1001	1001	3.2	70	85	95
12	1.662	2.002	0.054	156	156	1.9	20	25	30
10	1.040	1.253	0.050	249	249	2.2	30	35	40
8	0.653	0.786	0.052	396	396	2.5	40	50	55
8	0.653	0.786	0.052	396	396	2.6	40	50	55
6	0.411	0.495	0.051	629	629	3.0	55	65	75
4	0.258	0.310	0.048	1001	1001	3.4	70	85	95

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