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.

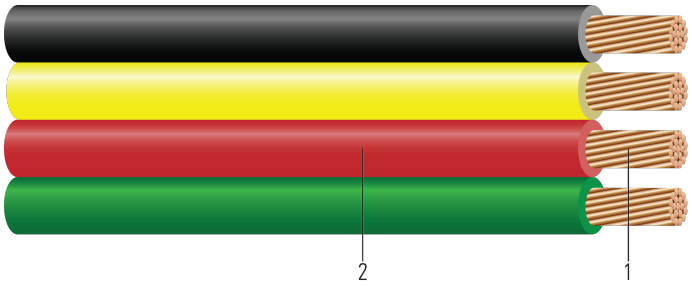

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid soft drawn or fully annealed bare copper per ASTM B3 or stranded class B compressed bare copper ASTM B3 and B8
2. **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	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
563658◊	14	2	7	0.07	30	1 x 14	0.166x0.558	70
563659◊	14	3	7	0.07	30	1 x 14	0.166x0.745	91
563660◊	12	2	19	0.09	30	1 x 12	0.185x0.615	95
563661◊	12	3	19	0.09	30	1 x 12	0.185x0.830	126
563662◊	10	2	19	0.117	30	1 x 10	0.210x0.690	136
563663◊	10	3	19	0.117	30	1 x 10	0.210x0.930	182
563665◊	8	3	19	0.143	45	1 x 10	0.270x1.109	276
563666◊	6	3	19	0.179	60	1 x 8	0.304x1.272	402
563667◊	4	3	19	0.226	60	1 x 8	0.365x1.490	568

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item

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* 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	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	lb	inch	Amp	Amp
14	2.631	3.265	0.058	98	98	2.2	20	25
14	2.631	3.265	0.058	105	105	3	20	25
12	1.662	2.063	0.054	156	156	2.5	25	30
12	1.662	2.063	0.054	167	167	3.3	25	30
10	1.04	1.291	0.05	249	249	2.8	35	40
10	1.04	1.291	0.05	265	265	3.7	35	40
8	0.653	0.81	0.052	422	422	5.5	50	55
6	0.411	0.51	0.051	671	671	6	65	75
4	0.258	0.32	0.048	1068	1068	7.5	85	95

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