



Flat Parallel Pump 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. Stranded class B compressed bare copper ASTM 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 AWG/Kcmil	Cond. Number No.	Cond. Strands No.	Diameter Over Conductor inch	Insul. Thickness mil	Approx. OD inch	Approx. Weight lb/1000ft
563669◇	14	2	7	0.070	30	0.166 X 0.362	45
563672◇	12	3	19	0.090	30	0.185 X 0.615	94
563671◇	12	2	19	0.090	30	0.185 X 0.402	63
563673◇	10	2	19	0.117	30	0.209 X 0.448	90
563674◇	10	3	19	0.117	30	0.210 X 0.690	136
563658◇	14	3	7	0.070	30	0.166 X 0.558	68
563659◇	14	4	7	0.070	30	0.166 X 0.745	90
563660◇	12	3	19	0.090	30	0.185 X 0.615	94
563661◇	12	4	19	0.090	30	0.185 X 0.830	126
563662◇	10	3	19	0.117	30	0.210 X 0.690	136
563663◇	10	4	19	0.117	30	0.210 X 0.930	181
563664◇	8	3	19	0.143	45	0.027 X 0.809	202
563665◇	8	4	19	0.143	45	0.270 X 1.109	276
563666◇	6	4	19	0.179	60	0.304 X 1.272	401
563667◇	4	4	19	0.226	60	0.365 X 1.490	568

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 AWG/ Kcmil	DC Resistance @ 25°C Ω/1000ft	AC Resistance @ 90°C Ω/1000ft	Inductive Reactance Ω/1000ft	Max Pull Tension lb	Max Pull Tension lb	Min Bending Radius inch	Allowable Ampacity At 75°C Amp	Allowable Ampacity At 90°C Amp
14	2.631	3.170	0.058	65	65	1.4	20	25
12	1.662	2.002	0.054	156	156	2.5	25	30
12	1.662	2.002	0.054	104	104	1.6	25	30
10	1.040	1.253	0.050	166	166	1.8	35	40
10	1.040	1.253	0.050	249	249	2.8	35	40
14	2.631	3.170	0.058	98	98	2.2	20	25
14	2.631	3.170	0.058	105	105	3.0	16	20
12	1.662	2.002	0.054	156	156	2.5	25	30
12	1.662	2.002	0.054	167	167	3.3	20	24
10	1.040	1.253	0.050	249	249	2.8	35	40
10	1.040	1.253	0.050	265	265	3.7	28	32
8	0.653	0.786	0.052	396	396	3.2	50	55
8	0.653	0.786	0.052	422	422	5.5	40	44
6	0.411	0.495	0.051	671	671	6.4	52	60
4	0.258	0.310	0.048	1068	1068	7.5	68	76

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

