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.

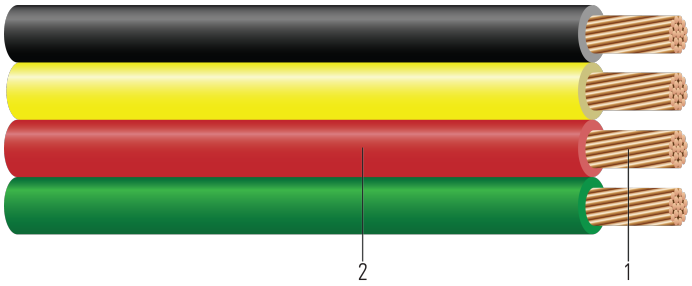

Image not to scale. See Table 1 for dimensions.

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

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	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	No. x AWG	inch	lb/1000ft
563660◊	12	2	19	0.09	30	1 x 12	0.185x0.615	95

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* 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	2.063	0.054	156	2.5	25	30

Copyright © 2026 Southwire Company, LLC. All Rights Reserved