Twisted Pump 600 Volt Cable Type THW

600 Volts, Solid or Stranded Copper Conductors. Polyvinyl Chloride (PVC) Insulation. Water Well Cable, Moisture Resistant, Twisted Configuration. 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 where the cable is not subject to repeated handling caused by frequent servicing of the pump units. 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. For use within well casings.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables

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
563703◊	14	2	Solid	0.064	45	1 x 14	0.334	66
563704◊	14	3	Solid	0.064	45	1 x 14	0.373	88
563705◊	12	2	Solid	0.080	45	1 x 12	0.345	92
563706◊	12	3	Solid	0.080	45	1 x 12	0.414	122
563707◊	10	2	Solid	0.101	45	1 x 10	0.414	131
563708◊	10	3	Solid	0.101	45	1 x 10	0.462	176
563709◊	8	2	19	0.143	45	1 x 10	0.574	195
563710◊	8	3	19	0.143	45	1 x 10	0.610	274
563711◊	6	3	19	0.179	60	1 x 8	0.700	402
563712◊	4	3	19	0.226	60	1 x 8	0.792	564
563713◊	2	3	19	0.286	60	1 x 6	0.929	852

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

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UPDATED: Dec. 31, 2024, 11:06 p.m.UTC REVISION: 1.000.003

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.

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
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	lb	inch	Amp
14	2.631	3.170	0.058	65	65	1.3	20
14	2.631	3.170	0.058	98	98	1.5	20
12	1.662	2.002	0.054	104	104	1.4	25
12	1.662	2.002	0.054	156	156	1.7	25
10	1.040	1.253	0.050	166	166	1.7	35
10	1.040	1.253	0.050	249	249	1.8	35
8	0.653	0.786	0.052	264	264	2.3	50
8	0.653	0.786	0.052	396	396	2.4	50
6	0.411	0.495	0.051	629	629	2.8	65
4	0.258	0.310	0.048	1001	1001	3.2	85
2	0.162	0.195	0.045	1592	1592	3.7	115

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