HI-LO Supreme Parallel Water Well Cable Type THW

600V Extreme, Oil-Resistant, Moisture Resistant Conditions. Rated -50°C to +105°C,

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class K, flexible stranded soft drawn bare copper per ASTM B172
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 B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- UL 83 Thermoplastic Insulated Wires and Cables

SAMPLE PRINT LEGEND:

SOUTHWIRE® E23919 XX AWG (X.XX{mm2}) {UL} 600V PUMP CABLE 90°C DRY 75°C WET {DD/MM/YYYY} {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	No.	inch	mil	mil	inch	lb/1000ft
597854◊	14	2	41	0.070	30	25	0.188 x 0.326	43
597858◊	12	2	65	0.088	30	25	0.206 x 0.362	63
597862◊	10	2	105	0.113	30	25	0.231 x 0.512	91
597765◊	14	3	41	0.070	30	25	0.188 x 0.464	65
597855◊	14	3	41	0.070	30	25	0.188 x 0.464	65
597859◊	12	3	65	0.088	30	25	0.205 x 0.518	94
597856◊	12	3	65	0.088	30	25	0.206 x 0.518	94
597860◊	10	3	105	0.113	30	25	0.231 x 0.593	136
597863◊	10	3	105	0.113	30	25	0.231 x 0.593	136
597865◊	8	3	168	0.141	45	30	0.316 x 0.861	241
597766◊	14	4	41	0.070	30	25	0.188 x 0.602	87
597857◊	12	4	65	0.088	30	25	0.206 x 0.674	126
597861◊	10	4	105	0.113	30	25	0.231 x 0.774	181
597864◊	8	4	168	0.141	45	30	0.316 x 1.01	289

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	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	lb	lb	Amp	Amp
14	2.631	3.170	0.058	65	65	20	25
12	1.662	2.002	0.054	104	104	25	30
10	1.040	1.253	0.050	166	166	35	40
14	2.631	3.170	0.058	65	65	20	25
14	2.631	3.170	0.058	98	98	20	25
12	1.662	2.002	0.054	156	156	25	30
12	1.662	2.002	0.054	104	104	25	30
10	1.040	1.253	0.050	166	166	35	40
10	1.040	1.253	0.050	249	249	35	40
8	0.653	0.786	0.052	396	396	50	55
14	2.631	3.170	0.058	98	98	20	25
12	1.662	2.002	0.054	156	156	25	30
10	1.040	1.253	0.050	249	249	35	40
8	0.653	0.786	0.052	396	396	50	55

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