HI-LO Supreme Parallel Water Well 600 Volt Pump Cable

600V, Extreme, Oil-Resistant, Moisture Resistant Conditions. Rated -50°C to 90°C Dry/ 75°C Wet



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class K, flexible stranded, soft drawn bare copper per ASTM B3 and B172
2. **Insulation:** Thermoplastic elastomer (TPE)
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 premium Thermoplastic Elastomer (TPE) colored black, red, and yellow. Jacketed with a premium Thermoplastic Elastomer (TPE) material. Oil resistant. Used in both high temperature and low temperature wells.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- 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	Ground	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/ Kcmil	No.	No.	inch	mil	No. x AWG	mil	inch	lb/1000ft
597857◊	12	3	65	0.094	30	1 x 12	25	0.206x0.674	126
597856◊	12	2	65	0.094	30	1 x 12	25	0.206x0.518	94
597861◊	10	3	105	0.117	30	1 x 10	25	0.231x0.774	181
597864◊	8	3	168	0.153	45	1 x 10	30	0.316x1.010	289
597860◊	10	2	105	0.117	30	1 x 10	25	0.231x0.593	136

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

- 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.
- Cond. Number does not include ground conductor.

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

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
12	1.652	2.05	0.054	167	167	2.7	25	30
12	1.652	2.05	0.054	156	156	2.1	25	30
10	1.04	1.291	0.05	265	265	3.1	35	40
8	0.666	0.827	0.052	422	422	5.1	50	55
10	1.04	1.291	0.05	249	249	2.4	35	40

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

Copyright © 2026 Southwire Company, LLC. All Rights Reserved