# 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 | Ground | Jacket Thickness | Approx. OD | Approx. Weight |
|---|---|---|---|---|---|---|---|---|---|
| | AWG/ Kcmil | No. | No. | inch | mil | No. x AWG | mil | inch | lb/1000ft |
| 597860◊ | 10 | 3 | 105 | 0.117 | 30 | 1 x 10 | 25 | 0.231 X 0.593 | 136 |

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 | 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 |
| 10 | 1.111 | 1.339 | 0.050 | 249 | 2.4 | 35 | 40 |

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