

1/C CU 600 or 1000V XLPE-SIM XHHW-2 Power Cable. CT Rated 1/0 and Larger

Power Cable 600 or 1000 Volt Single Conductor Copper, Cross Linked Polyethylene (XLPE) with Simpull technology insulation XHHW-2. FT4/IEEE 1202 350kcmil and larger.

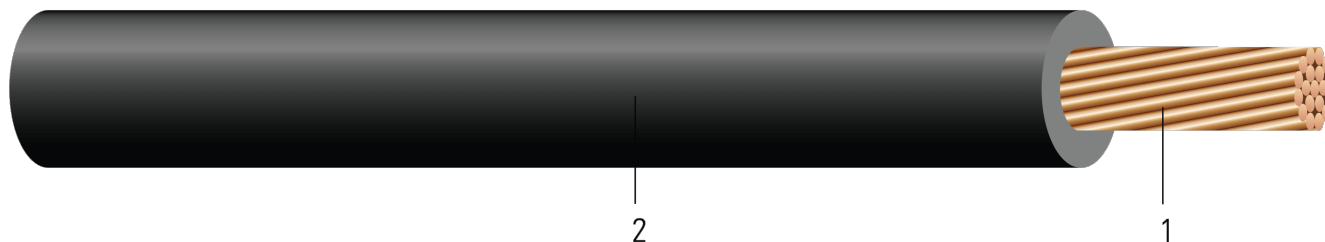


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- Insulation:** Cross Linked Polyethylene (XLPE) with Simpull technology Type XHHW-2

APPLICATIONS AND FEATURES:

Southwire's 600 or 1000 Volt power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502. FT4/IEEE 1202 on 350kcmil and larger. Rated for 1000 lbs./FT maximum sidewall pressure.

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- UL 2556 Standard for Safety Wire and Cable Test Methods
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- CT USE Sizes 1/0 AWG and Larger
- IEEE 1202 Flame Test (70,000 BTU/hr) 350kcmil and Larger

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE{R} SIMpull XHHW-2{R} E30117 MASTER-DESIGN {UL} XXX AWG(XXX{mm²}) CU TYPE XHHW-2 SUN. RES. FOR CT USE GASOLINE AND OIL RESISTANT II 600V/1000V {NOM}-ANCE LS

Table 1 – Weights and Measurements

| Stock Number | Cond. Size | Diameter Over Conductor | Insul. Thickness | Approx. OD | Copper Weight | Approx. Weight |
|--------------|------------|-------------------------|------------------|------------|---------------|----------------|
| | AWG/Kcmil | inch | mil | inch | lb/1000ft | lb/1000ft |
| 113019◇ | 2/0 | 0.404 | 55 | 0.514 | 411 | 450 |

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item



† Ampacities are based on Table 310.16 of the NEC, 2020 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

Table 2 – Electrical and Engineering Data

| Stock Number | Cond. Size | Min Bending Radius | Max Pull Tension | DC Resistance @ 25°C | AC Resistance @ 90°C | Inductive Reactance @ 60Hz | Allowable Ampacity At 60° C† | Allowable Ampacity At 75° C† | Allowable Ampacity At 90° C† |
|--------------|------------|--------------------|------------------|----------------------|----------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| | AWG/ Kcmil | inch | lb | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp | Amp | Amp |
| 113019◇ | 2/0 | 2.1 | 1065 | 0.081 | 0.102 | 0.027 | 145 | 175 | 195 |

† Ampacities are based on Table 310.16 of the NEC, 2020 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

