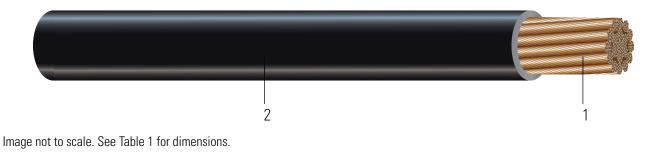


Southwire[®] Machine Flex[®] Power Thermoset LSZH-TS

90°C Wet or Dry. 600 Volts or 1000 Volts. Flexible Stranded Copper Conductor. Thermoset Low Smoke Zero Halogen (LSZH-TS). Oil & Gasoline Resistant. Sunlight Resistant. Rated UL VW-1 and CSA FT1 & VW-1 Flame Resistant for sizes smaller than 2 AWG. Rated UL FT4-ST1 and CSA FT4-ST1 Flame Resistant for sizes 2 AWG and larger.



CONSTRUCTION:

- 1. **Conductor:** 8 4/0 AWG: Class K, Flexible stranded bare copper. 250 750 kcmil: Class I, Flexible stranded bare copper
- 2. Insulation: Thermoset Low Smoke Zero Halogen (LSZH-TS)

APPLICATIONS AND FEATURES:

Southwire's Machine Flex[®] 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. 1/0 AWG & Larger rated for CT use.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- ASTM B174 Standard Specification for Bunch-Stranded Copper
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 FT4-Vertical-Tray Fire Propagation and Smoke Release Test (2 AWG and Larger)
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- CE/RoHS-2 The CE Marking has been applied solely to express the conformance to the material restrictions identified in the RoHS-2 (2011/65/EU) Directive
- Made in America: Compliant with both Buy American and Buy America Act (BAA) requirements per 49 U.S.C. § 5323(j) and the Federal Transit Administration Buy America requirements per 49 C.F.R. part 661



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SAMPLE PRINT LEGEND:

8AWG-6AWG:

SOUTHWIRE® E30117 (PLANT ID) (UL) (XX AWG) # OF STRANDS STRAND CLASS X XX mm² TYPE XHHW-2-HF 600V/1000V SR PRII GRII 90(D)C DRY OR WET -40(D)C VW-1 --- (CSA) LL90458 RW90 HAL-FREE 600V/100V SR PRII GRII -40(D)C XLPO --- CE RoHS-2 MADE IN USA --- (MM/DD/YYY)

2AWG & Larger:

SOUTHWIRE® E30117 (PLANT ID) (UL) (XX AWG) # OF STRANDS STRAND CLASS X XX mm² TYPE XHHW-2--HF 600V/1000V SR PRII GRII 90(D)C DRY OR WET -40(D)C FOR CT USE FT4-ST1 --- (CSA) LL90458 RW90 HAL-FREE 600V/100V SR PRII GRII -40(D)C XLPO FT4-ST1 --- CE RoHS-2 MADE IN USA --- (MM/DD/YYYY)

Table 1 – Weights and Measurements

Cond. Size	Cond. Number	Strand Count	Diameter Over Conductor	Insul. Thickness	Dia. Over Insulation	Approx. OD	Copper Weight	Approx. Weight
AWG/Kcmil		No. of Strands	inch	mil	inch	inch	lb/1000ft	lb/1000ft
250	1	627	0.605	70	0.745	0.745	764	841

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

Table 2 – Electrical and Engineering Data

Cond. Size	Cond. Number	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
AWG/ Kcmil		inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
250	1	2.9	2000	0.047	0.057	0.041	255	290

† Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

† Ampacities have been adjusted for more than Three Current-Carrying Conductors.

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



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