

CU Compressed 5kV XLPE Insulation Airport Lighting

5000 Volt Non-Shielded Airport Lighting Cable, Copper Conductor With Cross-Linked Polyethylene Insulation XLPE. Meets (FAA) specification L-824 C For Underground Electrical Cable for Airport Lighting Circuits. Silicone Free



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B copper per ASTM B 3 and B8
2. **Insulation:** Cross-Linked Polyethylene XLPE. Optional colors available upon request (green, blue, red, etc.)

APPLICATIONS AND FEATURES:

Southwire's Airport Lighting Cable meets the requirements of (FAA) L-824 C underground electrical cable for airport lighting circuits (AC 150/5345-53D), (AC 150/5345-7F). Southwire's Airport Lighting Cable is available in sizes #8 AWG through #4 AWG 7 strands. The conductors are bare annealed copper class B and covered with an abrasion, moisture, and heat resistant Cross-Linked Polyethylene XLPE insulation. The 5KV non-shielded cable is available in Black, Red and Yellow colors. Southwire Airport Lighting Cable is primarily used for series lighting circuits for runways, control systems, and other multi-purpose installations. It can be used in direct burial, conduit, or raceways. These cables are capable of operating continuously at a conductor temperature not in excess of 90°C for normal operation, 130°C for emergency and 250°C for short circuit conditions. Silicone Free.

- Cable is manufactured by Southwire Company in either Starkville, MS or Douglas, GA USA
- Cable has a warranty of 1 year from date of installation or 2 years from date of shipment whichever comes first.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ICEA S-96-659 (NEMA WC 71) 2001-5000 V Nonshielded Cables
- 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
- FAA L-824 C Specification Approved by (AC 150/5345-53D), (AC 150/5345-7F)

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE 8 AWG 5000V FAA-L824, TYPE C



Table 1 – Physical and Electrical Data

Stock Number	Cond. Size AWG	Cond. Number No.	Cond. Strands strands	Insul. Thickness mil	Approx. OD inch	Approx. Weight lb /1000ft	Min Bending Radius inch
8 AWG							
551529	8	1	7	110	0.375	90	3.00
6 AWG							
551528	6	1	7	110	0.415	189	3.32
4 AWG							
590650^^	4	1	7	110	0.460	271	3.68
551527	4	1	7	110	0.460	271	3.68

All dimensions are nominal and subject to normal manufacturing tolerances

∅ Cable marked with this symbol is a standard stock item

† 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.

Color and Stock Number

Size	Red
#8	578099
#6	587172

