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 stranded copper per ASTM B3 and B8
2. **Insulation:** Cross-Linked Polyethylene (XLPE)

APPLICATIONS AND FEATURES:

Southwire's Airport Lighting Cable meets the requirements of (FAA) L-824 C underground electrical cable for airport lighting circuits (AC 150/5345-7F). 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 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
- 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 150/5345-7F)

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE X AWG 5000V XLPE 90°C FAA-L824, TYPE C

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Cable Color
	AWG	strands	inch	mil	inch	lb /1000ft	inch	
Airport Lighting								
551529	8	7	0.141	110	0.375	89	3.0	BK
578099	8	7	0.141	110	0.375	89	3.0	RD
669598	8	7	0.141	110	0.375	89	3.0	BE
641156	8	7	0.141	110	0.375	89	3.0	YW
551528	6	7	0.177	110	0.415	125	3.3	BK
587172	6	7	0.177	110	0.415	125	3.3	RD
643912	6	7	0.177	110	0.415	125	3.3	YW
551527	4	7	0.225	110	0.460	180	3.7	BK

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

Ampacity

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