



## 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



**Table 1 – Physical and Electrical Data**

| Stock Number     | Cond. Size | Cond. Number | Cond. Strands | Diameter Over Cond. | Insul. Thickness | Approx. OD | Approx. Weight | Min Bending Radius | Cable Color |
|------------------|------------|--------------|---------------|---------------------|------------------|------------|----------------|--------------------|-------------|
|                  | AWG        | No.          | strands       | inch                | mil              | inch       | lb /1000ft     | inch               |             |
| Airport Lighting |            |              |               |                     |                  |            |                |                    |             |
| 641156           | 8          | 1            | 7             | 0.141               | 110              | 0.375      | 89             | 3.0                | YW          |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

