

# Airport Lighting Copper

XLPE Insulated, FAA L-824, Type C, 5 kV, Non-shielded



A Viakable Company

## Features

Certified and Listed by the FAA, as Airport Lighting Cable. Jacket is Sunlight Resistance. Complete cable design is Silicon Free

## Application

Designed for used in airport control and lighting circuits. May be used in wet or dry locations, installed in conduit, duct or direct burial.

## Standards

FAA L-824  
Advisory Circular 150/5345-7F Specification L-824  
Underground Electrical Cable for Airport Lighting Circuits.  
ICEA S-96-659

Standard for Non-shielded Cables rated 2001-5000 Volts for Use in Distribution of Electrical Energy.

## Specifications

Maximum operating voltage:

- 5 kV Non-shielded

Maximum conductor operation temperatures:

- Normal: 90 °C
- Emergency: 130 °C
- Short Circuit: 250 °C

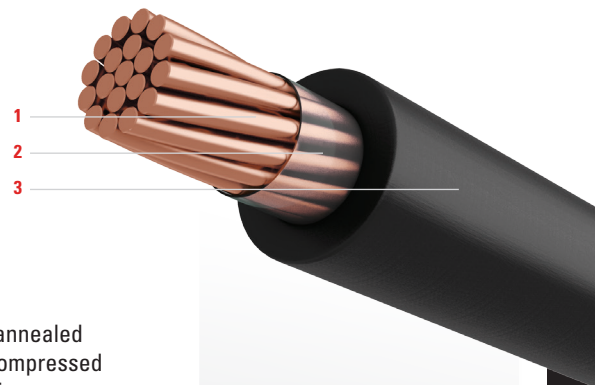
## Engineering Information

**1. Conductor:** Soft annealed uncoated copper compressed Class B or C stranding per ASTM B8.

**Sizes:** 8 AWG up to 4 AWG

**2. Separator:** A suitable opaque tape, as required.

**3. Insulation:** Black extruded thermosetting cross-linked polyethylene (XLPE) per ICEA.



## Technical Data

### 5 kV FAA L-824 Non-shielded

Size AWG or kcmil	Insulation Thickness mil	Approximate Outside Diameter in	Approximate Net Weight lb/kft	† Ampacity	
				Condition A	Condition B
8	110	0.39	94	53	60
6	110	0.42	131	71	78
4	110	0.47	187	95	103

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

For sizes not listed above please contact sales.

† Ampacities are based on the following:

**Condition A** Triplexed or three single – copper conductors in free air, 90 °C conductor temperature, 40 °C ambient air temperature, full sun and with out wind (IEEE Std. 835).

**Condition B** Triplexed or three single-insulated copper conductors in underground duct bank (single circuit), 25 °C ambient earth temperature, 100% load factor, 90 RHO and 90 °C conductor temperature (IEEE Std. 835).