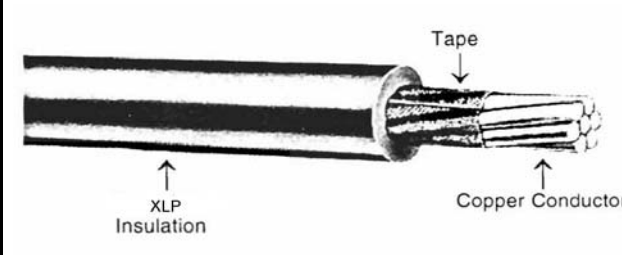


AIRPORT LIGHTING CABLE

XLP Insulation, 5000 Volts

FAA-L-824, Type C

<p>APPLICATION: Airport Lighting and Control Circuits. Rated 5000 Volts as indicated, 90°C conductor temperature in wet or dry conditions. Single conductor 5000 Volts, Type C.</p> <p>STANDARDS:</p> <ol style="list-style-type: none"> 1. Approved under FAA Advisory Circular 150/5345-7E, Specification L-824 Underground Electrical Cable for Airport Lighting Circuits. 2. Approved by City of Los Angeles as Airfield Lighting Conductor (8 AWG, 5 kV Nonshielded). <p>CONSTRUCTION: 5000 Volt-annealed uncoated stranded copper conductor, separator tape, XLP insulation, surface printed.</p>			 <p>The diagram shows a cross-section of the cable. It features a central copper conductor surrounded by a layer of XLP insulation. A separator tape is applied over the insulation. Labels with arrows point to 'XLP Insulation', 'Tape', and 'Copper Conductor'.</p>			
USAWC Part #	Size AWG	No. of Strands	Insulation Thickness Mils	Nominal Diam. Inches	Approx. Net Wt. lbs/1000 ft	Copper Wt. lbs/1000 ft
5000 Volt						
8-015KVL824C	8	7	110	.38	89	48
6-015KVL824C	6	7	110	.41	125	82
4-015KVL824C	4	7	110	.46	180	132

Specification

AIRPORT LIGHTING CABLE

XLP Insulation, 5000 Volts

FAA-L-824, Type C

1. SCOPE

1.1 This specification describes single conductor XLP (thermosetting crosslinked polyethylene) insulated cable rated 5000 volts nonshielded for use in airport control and lighting circuits at conductor temperatures up to 90°C in wet or dry conditions. Cables are suitable for use in conduit, duct, aerial and direct earth burial applications.

2. STANDARDS

2.1 The following standards shall be a part of this specification:

2.1.1 FAA Advisory Circular 150/5345-7E Specification L-824 Underground Electrical Cable for Airport Lighting Circuits.

2.1.2 ICEA Pub. No. S-95-658, NEMA Pub. No. WC70 for Nonshielded Power Cables Rated 2000 Volts or Less.

2.1.3 ICEA Pub. No. S-96-659, NEMA Pub. No. WC71 for Nonshielded Cables Rated 2001-5000 Volts.

3. CONDUCTOR

3.1 Class B stranded annealed uncoated copper per Part 2 of ICEA. Sizes shall be 8-4 AWG for 5000 volt rated cable.

4. SEPARATOR

4.1 On 5000 volt rated cable, the conductor shall be covered with an opaque polyester tape or semiconducting tape at the option of the manufacturer.

4.2 The semiconducting tape conductor shield, if used, shall meet the requirements of Part 3 of ICEA 8-96-659.

5. INSULATION

5.1 Directly over the conductor or conductor separator shall be applied a homogeneous wall of black XLP insulation. The average thickness of insulation shall be 110 mils for 5000 volt rated nonshielded cable. Minimum thickness at any point shall be not less than 90% of the specified thickness.

5.2 Physical and electrical properties of 5000 volt rated cable shall be in accordance with Table 4-5, Type X-1 of ICEA 8-96-659.

6. IDENTIFICATION

6.1 All cable shall be identified by means of surface ink printing indicating manufacturer's identification, size, insulation type, and applicable voltage rating. The 5000 volt nonshielded cable shall also be printed "FAA L-824 Type C".

7. TESTS

7.1 Cable shall be tested in accordance with FAA Advisory Circular 150/5345-7E and ICEA.