


ROME AIRPORT LIGHTING CABLE

Rome-XLPE Insulation, 5000 Volts, Nonshielded

FAA-L-824, Type C

<p>APPLICATION: Airport Lighting Circuits. Rated 5000 Volts, 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: Annealed uncoated stranded copper conductor, separator tape, Rome-XLPE insulation, surface printed.</p>		 <p>Labels in diagram: Rome-XLPE Insulation (pointing to the outer sheath), Tape (pointing to the separator), Copper Conductor (pointing to the inner strands).</p>		
Size AWG	No. of Strands	Insulation Thickness Mils	Nominal Diam. Inches	Approx. Net Wt. Lb./1000 Ft.
5000 Volt				
8	7	110	.38	89
6	7	110	.42	125
4	7	110	.46	180

- NOTES: 1. For single conductor 5000 volt nonshielded cables in sizes 8-4 AWG, SPEC 7155 is also recognized for airport lighting applications.
2. Size 8 AWG with tinned copper conductor conforming to MIL-C-38359, Class 2 (3001-5000 Volts), Airport Lighting Cable available upon request.

Information on this sheet subject to change without notice.

Specification

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1. SCOPE

1.1 This specification describes single conductor Rome-XLPE (thermosetting crosslinked polyethylene) insulated cable rated 5000 volts nonshielded for use in airport 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-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.

4. SEPARATOR

4.1 The conductor shall be covered with an opaque polyester tape or a 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 S-96-659.

5. INSULATION

5.1 Directly over the conductor separator shall be applied a homogeneous wall of black Rome-XLPE insulation. The average thickness of insulation shall be 110 mils. Minimum thickness at any point shall be not less than 90% of the specified thickness.

5.2 Physical and electrical properties of the insulation shall be in accordance with Table 4-5, Type X-1 of ICEA S-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 voltage rating. The cable shall also have verification of compliance with the FAA Advisory Circular.

7. TESTS

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