

ROME AIRPORT LIGHTING CABLE

Rome-EPR Insulation, 600 and 5000 Volts
 FAA-L-824, Type B

<p>APPLICATION: Airport Lighting and Control Circuits. Rated 600 Volts or 5000 Volts as indicated, 90°C conductor temperature in wet or dry conditions. Single conductor 600 Volt and 5000 Volt, Type B.</p> <p>STANDARDS: Approved under FAA Advisory Circular 150/5345-7D, Specification L-824 Underground Electrical Cable for Airport Lighting Circuits.</p> <p>CONSTRUCTION: 600 Volt - annealed stranded copper conductor, Rome-EPR insulation, PVC or Hypalon jacket, surface printed.</p> <p>5000 Volt - annealed stranded copper conductor, conductor shield, Rome-EPR insulation, PVC, CPE or Hypalon jacket, surface printed.</p>					
Size AWG	No. of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Nominal Diam. Inches	Approx. Net Wt. Lb./1000 Ft.
600 VOLT					
12	7	30	15	.19	35
10	7	30	15	.22	50
8	7	45	15	.28	80
6	7	45	30	.35	125
4	7	45	30	.39	175
5000 VOLT					
8	7	90	30	.41	115
6	7	90	30	.45	155
4	7	90	45	.53	235

NOTES: 1. For single conductor 600 volt cables in sizes 12-4 AWG, refer to SPEC 2165.
 2. For single conductor 5000 volt nonshielded cables in sizes 8-4 AWG, refer to SPEC 7190.
 3. For single conductor 5000 volt shielded cables in sizes 8-4 AWG, refer to SPEC 7210.

Information on this sheet subject to change without notice.

Specification

ROME AIRPORT LIGHTING CABLE

Rome-EPR Insulation, 600 and 5000 Volts FAA-L-824, Type B

1. SCOPE

- 1.1 This specification describes single conductor Rome-EPR (ethylene-propylene-rubber) insulated cable rated 600 volts or 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 150/5345-7D Specification L-824 Underground Electrical Cable for Airport Lighting Circuits.
 - 2.1.2 ICEA Pub. No. S-68-516 and NEMA Pub. No. WC8 for Ethylene-propylene-rubber-insulated Wire and Cable.

3. CONDUCTOR

- 3.1 Class B stranded annealed coated or uncoated copper per Part 2 of ICEA. Sizes shall be 12-4 AWG for 600 volt rated cable and 8-4 AWG for 5000 volt rated cable.

4. SEPARATOR

- 4.1 A suitable separator over the conductor may be used on 600 volt rated cable at the option of the manufacturer. On 5000 volt rated cable, the conductor shall be covered with a semiconducting layer completely covering the conductor and firmly bonded to the cable insulation.
- 4.2 The conductor shield shall meet the requirements of Part 2 of ICEA.

5. INSULATION

- 5.1 Directly over the conductor or conductor shield shall be applied a homogeneous wall of Rome-EPR insulation. The average thickness of insulation for 600 volt rated cables shall be as specified in Table 3-1, Column B of ICEA and for 5000 volt rated cables shall be at least 90 mils. Minimum thickness at any point shall be not less than 90% of the average thickness.
- 5.2 Physical and electrical properties of the insulation shall be in accordance with Paragraph 3.6 of ICEA.

6. JACKET

- 6.1 A PVC or Hypalon jacket (600v) or a PVC, CPE or Hypalon jacket (5kV) shall be applied directly over the insulation. The jackets shall meet the requirements of Part 4 of ICEA. The average thickness of the jacket shall be as specified in Table 4-6 of ICEA. The minimum thickness at any point shall be not less than 80 percent of that specified.

7. IDENTIFICATION

- 7.1 All cable shall be identified by means of surface ink printing indicating manufacturer's identification, size, insulation type, and applicable voltage rating.

8. TESTS

- 8.1 Cable shall be tested in accordance with FAA Advisory Circular 150/5345-7D and ICEA S-68-516. Certified Test Reports may be furnished, if requested prior to production of the cable.