

ROME AIRPORT LIGHTING CABLE

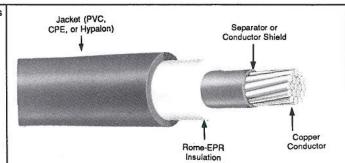
Rome-EPR Insulation, 600 and 5000 Volts FAA-L-824, Type B

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.

STANDARDS: Approved under FAA Advisory Circular 150/5345-7D, Specification L-824 Underground Electrical Cable for Airport Lighting Circuits.

CONSTRUCTION: 600 Volt - annealed stranded copper conductor, Rome-EPR insulation, PVC or Hypalon jacket, surface printed.

5000 Volt - annealed stranded copper conductor, conductor shield, Rome-EPR insulation, PVC, CPE or Hypalon jacket, surface printed.



Size AWG	No. of Strands	Insulation Thickness Mils	Jacket Thickness Mils	Nominal Diam. Inches	Approx. Net Wt. Lb./1000 Ft.
		60	00 VOLT		<u></u>
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
		50	000 VOLT	L	
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.