

Building a Connected World

DATE: 3-18-05

PRODUCT SPECIFICATION 11795 E

- **TYPE:** Crosslinked Polyethylene Insulated Unshielded Underground Electrical Cable For Airport Lighting Circuits 5000 Volts, 90°C FAA L-824 Type C
- **CONFORMS TO:** FAA Advisory Circular AC 150/5345-7E Dated 8/2/01 ICEA S-96-659 and Certified by Intertek Testing
- SIZE: 8 AWG Thru 4 AWG Single Conductor

I. <u>SCOPE</u>:

This specification covers the requirements for single conductor Crosslinked Polyethylene insulated underground electrical cables for installation in ducts or conduit or in trenches by direct burial.

II. <u>CONSTRUCTION DATA</u>:

			INSULATION	APPROX.	NOMINAL
		NOMINAL	MIN. AVG.	OUTSIDE	CONDUCTOR
SIZE		CONDUCTOR	WALL	DIAMETER	RESISTANCE
(AWG)	STRANDING	DIAMETER	(MILS)	(INCHES)	(OHMS/M FT.) @ 25°C
8	7 x .0486"	.146"	110	.370	.652
8	19 x .0295"	.146"	110	.370	.652
6	7 x .0612"	.184"	110	.410	.411
6	19 x .0372"	.184"	110	.410	.411
4	7 x .0772"	.232"	110	.460	.258
4	19 x .0372"	.232"	110	.460	.258



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- A. STRANDED CONDUCTOR: The conductor consists of Class B or C concentric stranded, annealed uncoated copper conforming to ASTM Standards B-3 and B-8.
- B. SEPARATOR: A suitable separator tape shall be applied over the conductor.
- C. INSULATION: Black Crosslinked Polyethylene (XLPE) conforming to ICEA S-96-659 Part 4.
- D. SURFACE MARKING: The insulated conductor shall be surface printed with the following information:

"(SIZE) AWG -- 5000 VOLTS -- A.I.W. CORP. FAA L-824 TYPE C"

III. <u>TESTING</u>:

- A. ELECTRICAL TESTS:
 - 1. AC High Voltage Test: 13.0 KV for 5 Min.
 - 2. Insulation Resistance: K Value = 20,000 Min.
- B. PHYSICAL TESTS: The insulation shall be tested in accordance with the requirements of ICEA S-96-659.