

# FAA L-824 TYPE C 5000 VOLTS

XLP Insulation (with PVC Jacket on Shielded Cable)

8 AWG - 4 AWG • Shielded or Unshielded • 90°C

## Scope

This specification covers shielded or unshielded, single conductor cable having stranded, bare copper conductor; cross-linked polyethylene (XLP) insulation; and polyvinyl chloride (PVC) jacket on shielded cable. Cable is rated 5,000 volts and meets the requirements of FAA L-824 Type C (FAA Advisory Circular AC 150/5345-7E) and ICEA S-96-659 (NEMA WC 71) for unshielded and S-93-639 (NEMA WC 74) for shielded.

## Applications

Designed for installation in ducts, conduit or direct burial for use in airport lighting and control circuits.

## Construction

**Conductor:** Bare, soft annealed copper per ASTM B-3, concentric stranded, class B (7 strands) per ASTM B-8.

**Separator (for unshielded cable only):** An opaque separator is applied between the conductor and insulation to facilitate stripping. (A .006" nylon semi-conducting tape is optional.)

**Conductor Shield (for shielded cable only):** .015" extruded semi-conducting layer per ICEA S-93-639 section 3.

**Insulation:** cross-linked polyethylene (90°C) per ICEA S-96-659 section 4 (unshielded) and S-93-639 section 4 (shielded).

**Insulation Thickness:** ICEA S-96-659 table 4-2 (unshielded) or S-93-639 table 4-1 (shielded).

**Insulation Shield (for shielded cable only):** .035" extruded semi-conducting layer, .003" bare copper tape shield, ICEA S-93-639 section 5 and 6.

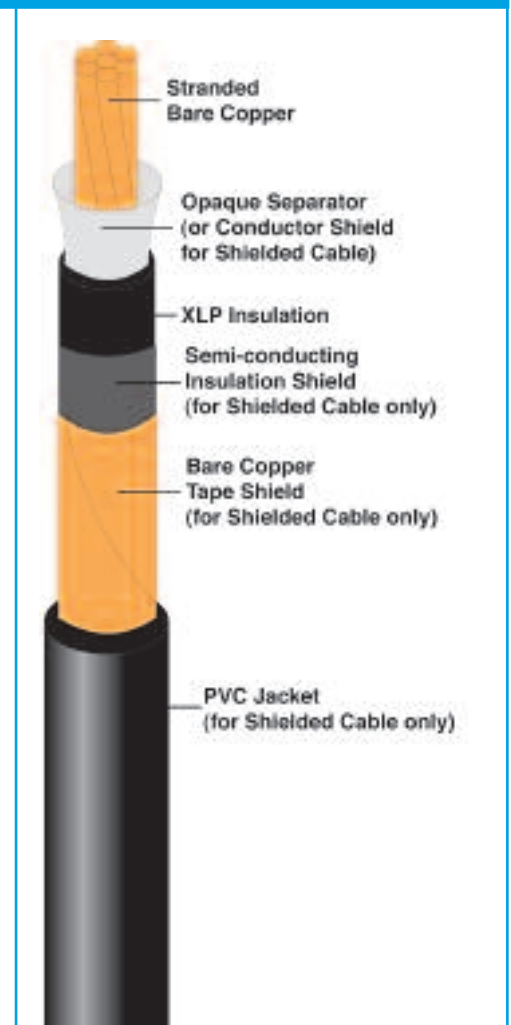
**Overall Jacket (for shielded cable only):** Polyvinyl chloride - ICEA S-93-639 paragraph 7.1.4, Thickness - ICEA S-93-639 table 7-3.

**Cable Identification (Ink print on jacket):** *"(size) AWG 5000V A.I.W. Corp. FAA L-824 Type C."*

**Tests:** Dimensionals, physicals, and electricals as applicable per ICEA S-96-659 and S-93-639.

## Construction Options:

Consult factory for cable specifications with coated copper conductors, class C stranding, and/or polyethylene jacket.



Unshielded Cable • ES06141

Shielded Cable • ES11320

Part Number	Size AWG	Strands No./ O.D. (In.)	XLP Insul. Thick (In.)	Approx. Outside Diam. (In.)	Approx. Weight Lbs./ M Ft.	Part Number	Size AWG	Strands No./ O.D. (In.)	XLP Insul. Thick. (In.)	PVC Jacket Thick. (In.)	Approx. Outside Diam. (In.)	Approx. Weight Lbs./ M Ft.
14723	8	7	.110	.375	94	19758	8	7	.090	.060	.600	175
14724	6	7	.110	.415	130	-	6	7	.090	.060	.640	240
14722	4	7	.110	.460	189	-	4	7	.090	.060	.690	305

Note on counterpoise conductor: consult factory for counterpoise per FAA installation specification L-108-2.3.

The data listed above is approximate and subject to change without notice.