

Okonite Cables

Facilities Overview

District Offices, Manufacturing Plants & Service Centers

Manufacturing Plants



Orangeburg, SC - Compound Facility



Orangeburg, SC - Manufacturing Plant



Richmond, KY - Manufacturing Plant



Santa Maria, CA - Manufacturing Plant



Cumberland, RI - Manufacturing Plant



Paterson, NJ - Manufacturing Plant

Atlanta District Office

(770) 928-9778

FAX: (770) 928-0913

E-Mail: atlanta@okonite.com

Baton Rouge District Office

(504) 467-1920

FAX: (504) 467-1926

E-Mail: batonrouge@okonite.com

Birmingham District Office

(205) 655-0390

FAX: (205) 655-0393

E-Mail: birmingham@okonite.com

Boston District Office

(603) 625-1900

(781) 749-3374

FAX: (603) 624-2252

E-Mail: boston@okonite.com

Charlotte District Office

(704) 542-1572

FAX: (704) 541-6183

E-Mail: charlotte@okonite.com

Chicago District Office

(630) 961-3100

FAX: (630) 961-3273

E-Mail: chicago@okonite.com

Cleveland District Office

(330) 926-9181

FAX: (330) 926-9183

E-Mail: cleveland@okonite.com

Dallas District Office

(940) 383-1967

FAX: (940) 383-8447

E-Mail: dallas@okonite.com

Denver District Office

(303) 772-3517

FAX: (303) 772-3513

E-Mail: denver@okonite.com

Houston District Office & Service Center

(281) 821-5500

FAX: (281) 821-7855

E-Mail: houston@okonite.com

Kansas City District Office & Service Center

(913) 422-6958

FAX: (913) 422-1647

E-Mail: kansascity@okonite.com

Los Angeles District Office

(562) 590-3070

Fax: (562) 590-3139

E-Mail: losangeles@okonite.com

Minneapolis District Office

(763) 432-3818

FAX: (763) 432-3811

E-Mail: minneapolis@okonite.com

New Orleans District Office & Service Center

(504) 467-1920

FAX: (504) 467-1926

E-Mail: neworleans@okonite.com

New York District Office

NJ (973) 742-8040

NY (212) 239-0660

FAX: (973) 742-2156

E-Mail: newyork@okonite.com

Philadelphia District Office

(856) 931-0595

(215) 604-1565

FAX: (215) 604-1564

E-Mail: philadelphia@okonite.com

Phoenix District Office

(480) 838-8596

FAX: (480) 897-8924

E-Mail: phoenix@okonite.com

Pittsburgh Service Center

(724) 899-4300

FAX: (724) 899-4320

E-Mail: pittsburgh@okonite.com

Portland District Office & Service Center

(503) 598-0598

FAX: (503) 620-7447

E-Mail: portland@okonite.com

Salt Lake District Office

(801) 262-1993

FAX: (801) 262-3167

E-Mail: saltlake@okonite.com

San Francisco District Office

(925) 830-0801

FAX: (925) 830-0954

E-Mail: sanfrancisco@okonite.com

St Louis District Office

(314) 770-9070

FAX: (314) 770-9140

E-Mail: stlouis@okonite.com

Tampa District Office

(813) 627-9400

FAX: (813) 246-4705

E-Mail: tampa@okonite.com

Washington District Office

(703) 904-9494

FAX: (703) 904-1610

E-Mail: washington@okonite.com

International Sales

(201) 825-0300

FAX: (201) 825-9026

E-Mail: ramsey@okonite.com

Service Centers



Houston, TX



Kansas City, KS



New Orleans, LA



Portland, OR



Pittsburgh, PA

Corporate HDQ



Ramsey, NJ



THE OKONITE COMPANY

102 Hilltop Road, Ramsey, NJ 07446 • 201.825.0300 Fax: 201.825.9026 • www.okonite.com



Printed on post consumer paper

05690

Okonite 04/2017

OKONITE

AIRPORT LIGHTING CABLES



Setting the Standard in Quality Since 1878

AIRPORT LIGHTING CABLE

Throughout Okonite's vast history, reliability has been the primary goal for product design, application and field service. Okonite responds to unique requirements through analysis by our Applications Engineering Team coupled with our high quality in-house compounding of rubber insulation and jackets.

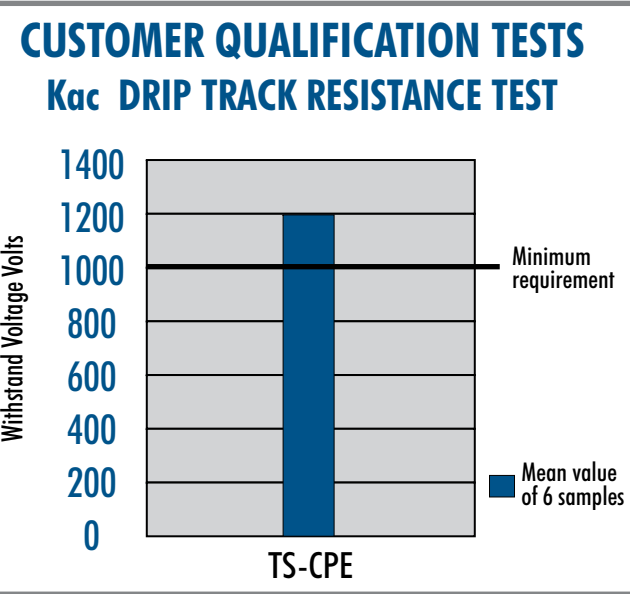
Single conductor airport lighting cable is a power cable that draws from Okonite's extensive design expertise and manufacturing capabilities.

It is generally recognized that a cable surface characteristic known as track resistance is a key fundamental design objective for airport lighting cable. In addition, the cable's insulation/jacket system must be chemically compatible with the application environment which in this case is the deicing chemicals used at many airports.

Recognizing these mechanisms, Okonite established a test protocol to verify and confirm the excellence of track resistance of its Okoguard (EPR)/Okolon (TS-CPE) 5kV non-shielded cables. The cured and bonded EPR/TS-CPE insulation system is the optimum design criteria for this wet location service environment.

Demanding electrical tests were conducted to examine the cable's surface conductivity, aged dielectric testing and tracking resistance when exposed to chemical wetting agents.

The results of this "application specific" test protocol confirmed that the Okoguard (EPR)/Okolon (TS-CPE) 5kV insulation/jacket system exhibits superior performance in electrical surface discharge testing.



dc SSR KAc/WATER @30C

Days	TS-CPE Megohms
0	5,000,000
1	780,000
7	830,000
14	320,000
21	990,000
28	950,000

Customer Requirement: > 200,000 megohms

dc SSR TAP WATER

Days	TS-CPE Megohms
0	3,300,000
1	1,600,000
7	1,700,000
14	2,300,000
21	2,600,000
28	2,200,000

ICEA Requirement: > 200,000 megohms

- ### CUSTOMER QUALIFICATION TESTS
- #### DRIP TRACK RESISTANCE TEST
- Test conducted on slabs of materials
 - Slabs immersed in KAc 50/50 deicing solution
 - Wetting rate: 0.2 cm /minute
 - Applied voltage: 100 volts/30 minutes & increased in 100 volt steps
 - Requirement: > 1000 volts (Minimum Value)



Wet Electrical Aging Test Apparatus

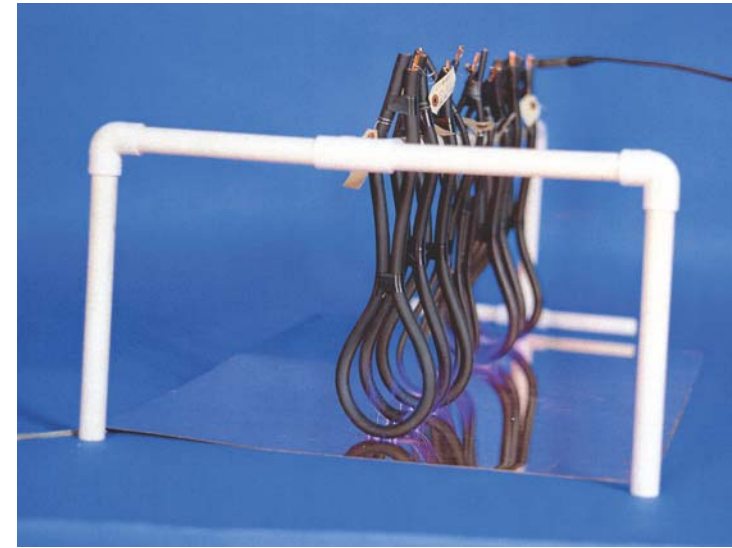
Operating conditions generating an electrical surface discharge can erode cable materials and lead to failure. The EPR/TS-CPE system withstands the following listed tests:

- **SURFACE CHARACTERISTICS**
Specific Surface Resistivity
- **DRY SURFACE**
U-Bend Discharge
Needle Surface Tracking Test

Okonite is a FAA certified supplier for L-824 underground electrical cable for airport lighting circuits as certified by the FAA's approved third party certification test lab, Electrical Testing Laboratory/Intertek Testing Services.

Quality products and service for specific customer needs and system reliability are Okonite's commitment to the industry.

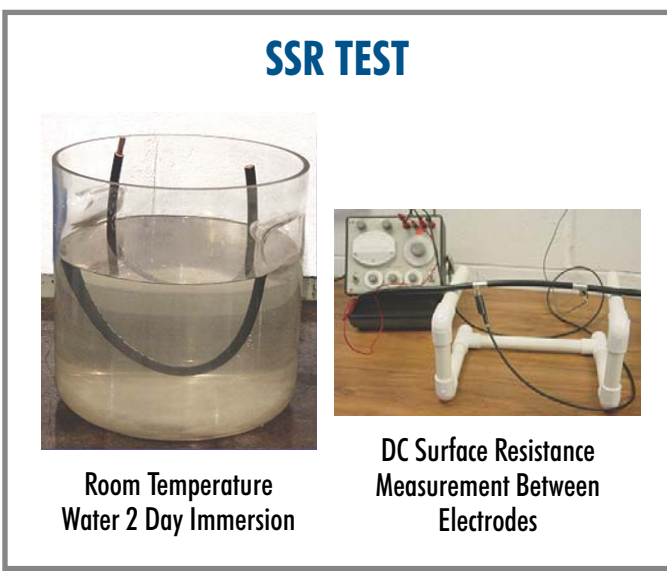
If you have any questions, please contact your local Okonite Sale Representative. Also, visit our website at www.okonite.com.



U BEND PLATE DISCHARGE

ANSI/ICEA S-96-659

6 & 8 AWG	DRY	WET
Pre-conditioning	None	(1) none (2) 14 days@75C
U bend diameters	6 X OD	
TEST VOLTAGE	14 kV	(1) 20kV (2) 15kV
Time, hours	6	100
Requirements	No cracks or failures	



OKOGUARD®-OKOLON® 5kV LIGHTING CABLE FAA-L-824 TYPE B

One Okopact (Compact Stranded) Copper Conductor/90° Rating Wet or Dry



INSULATION: Okoguard is Okonite's registered trade name for its exclusive medium voltage grade ethylene-propylene rubber (EPR) based, thermosetting compound, whose optimum balance of electrical and physical properties is unequalled in other solid dielectrics. Okoguard insulation, with its distinctive red color and totally integrated EPR system, provides the optimum balance for long, problem free service.

JACKET: The Okolon TS-CPE jacket on this cable is a thermoset chlorinated polyethylene based compound which is mechanically rugged, flame, and oil resistant.

APPLICATION: Okoguard-Okolon 5kV cables are heavy duty nonshielded cables designed for use at up to 5kV in wet or dry locations.

Okoguard-Okolon 5kV nonshielded airport lighting cables are recommended for use in series lighting circuits for runways and control systems. Cables can be installed in metallic or non-metallic conduit, directly buried or aerial applications.

SPECIFICATION: Meets or exceeds the requirements of FAA Advisory Circular AC 150/5345-7F.

CONDUCTOR: Uncoated copper compact stranded per ASTM B-496.

INSULATION: Meets or exceeds electrical and physical requirements of ICEA S-96-659/NEMA WC71. Insulation thickness per table 4-3 for wet or dry applications. Combine with insulation section above.

JACKET: Meets or exceeds electrical and physical requirements of ICEA S-96-659/NEMA WC71 for thermoset chlorinated polyethylene jackets. Combine with jacket section above.

PRODUCT FEATURES

- Resistant to runway and wing de-icers.
- 90°C continuous operating temperature.
- 250°C short circuit rating.
- Exceptional resistance to surface tracking.
- Superior flexibility.
- Constructed for "wet" location applications.
- 130°C emergency rating.
- Excellent corona resistance.
- Stress cones not required.
- Resistant to most oils, acids, and alkalis.

Catalog Number	Conductor size* AWG or kcmil	Conductor Size - mm²	Insulation Thickness - mils	Insulation Thickness - mm	Jacket Thickness - mils	Jacket Thickness - mm	Approx. O.D. - inches	Approx. O.D. - mm	Approx. Net Weight lbs./1000'	Approx. Ship Weight lbs./1000'
114-24-2213	8	8.4	125	3.18	80	2.03	0.60	15.1	215	250
114-24-2217	6	13.3	125	3.18	80	2.03	0.63	16.0	260	295

* Class C stranding conductors are available. Both items available from our Customer Service Centers.