

OKONITE

HIGH VOLTAGE CABLES

69kV 115kV 138kV



**THE
OKONITE
COMPANY**

Setting the Standard in Quality Since 1878

OKOGUARD HV



OUR ALL EPR SYSTEM

All three layers of the cable core;

- A. Strand Screen
- B. Insulation
- C. Insulation Screen is EPR

- Okoguard HV insulation was developed and tested as an extension to the unparalleled service record of our 50+ year Okoguard MV insulation.
- Okoguard HV has the same important balance of properties as our MV, but is optimized for use in higher HV applications.
- Okoguard HV system uses the same “All EPR System” (strand screen, insulation and insulation screen) as our MV cables.
- Okoguard HV is designed, formulated and compounded completely in-house.
- Okoguard HV is qualified to the latest 138kV requirements of the AEIC CS8 Specification.
- Okoguard HV insulated cables do not need a moisture barrier to prevent premature failures due to “treeing” of the insulation.
- Okoguard HV is more flexible and easier to install than XLPE insulated cables, especially without a moisture barrier.
- Okonite since 1878. We are an employee owned ESOT company and manufacture 100% of our products in the USA.



Okoguard HV has been fully qualified at our Paterson NJ HV Test Lab



Okoguard HV is compounded in-house at our Orangeburg SC campus, which underwent a major expansion in 2019-2020.



Santa Maria CA



Richmond KY



Orangeburg SC

Okonite manufactures EPR cable in three locations: Santa Maria CA, Richmond KY, and Orangeburg SC.

Okoguard-Okoseal Shielded Power Cable

105°C Rating 100% Insulation Level

Catalog Number	Conductor Size AWG or kcmil	Approx. Dia. over Insulation (in.)	Approx. Dia. over Screen (in.)	Jacket Thickness mils	Approx. O.D. - In.	Approx. Net Weight lbs./1000	Approx. Ship Weight lbs./1000	Ampacities (1) Direct Burial	Ampacities (1) Underground Duct
69kV Copper Conductor - Okoguard Insulation = 650 mils									
115-22-3765	250	1.91	2.01	110	2.26	3086	3459	444	398
115-22-3767	350	2.01	2.11	110	2.36	3538	3873	550	495
▲ 115-22-3771	500	2.12	2.22	110	2.47	4179	4514	667	599
115-22-3775	750	2.30	2.40	110	2.64	5213	5805	825	742
▲ 115-22-3777	1000	2.44	2.54	140	2.85	6389	7151	957	861
115-22-3778	1250	2.68	2.78	140	3.09	7582	8344	1066	959
115-22-3779	1500	2.78	2.88	140	3.19	8527	9447	1157	1042
69kV Aluminum Conductor - Okoguard Insulation = 650 mils									
135-22-3765	250	1.94	2.04	110	2.29	2614	3200	348	312
135-22-3767	350	2.06	2.16	110	2.41	2888	3223	429	386
135-22-3771	500	2.19	2.29	110	2.54	3244	3579	523	469
135-22-3775	750	2.37	2.47	110	2.72	3778	4175	650	584
135-22-3777	1000	2.52	2.62	140	2.93	4433	4904	759	683
135-22-3778	1250	2.68	2.78	140	3.09	4954	5716	853	768
135-22-3779	1500	2.80	2.90	140	3.21	5381	6034	936	842
115kV Copper Conductor - Okoguard Insulation = 800 mils									
108-25-3234	750	2.61	2.71	140	3.02	5745	6505	757	691
108-25-3236	1000	2.75	2.85	140	3.16	6720	7640	877	803
108-25-3239	1250	2.95	3.05	140	3.35	8450	9380	978	895
108-25-3241	1500	3.07	3.17	140	3.48	8860	9790	1066	973
108-25-3243	1750	3.24	3.34	140	3.65	10035	11100	1135	1040
108-25-3245	2000	3.34	3.44	140	3.75	11000	12100	1197	1098
108-25-3247	2250	3.46	3.56	140	3.87	11900	13500	1253	1149
108-25-3249	2500	3.53	3.63	140	3.93	12900	14500	1297	1190
115kV Aluminum Conductor - Okoguard Insulation = 800 mils									
128-25-3235	750	2.68	2.78	140	3.09	4295	4770	597	544
128-25-3237	1000	2.83	2.93	140	3.24	4795	5450	698	637
128-25-3239	1250	2.95	3.05	140	3.35	5240	5890	783	716
128-25-3241	1500	3.07	3.17	140	3.48	5710	6360	862	787
128-25-3243	1750	3.24	3.34	140	3.65	6250	7275	927	850
128-25-3245	2000	3.34	3.44	140	3.75	6675	7755	987	905
128-25-3247	2250	3.43	3.53	140	3.84	7075	8625	1038	952
128-25-3249	2500	3.53	3.63	140	3.94	7500	9050	1087	997
128-25-3251	2750	3.64	3.74	140	4.05	7940	9490	1134	1039
128-25-3253	3000	3.72	3.82	140	4.13	8315	9865	1174	1076
138kV Copper Conductor - Okoguard Insulation = 850 mils									
108-26-3234	750	2.71	2.81	140	3.12	5990	6755	752	687
108-26-3236	1000	2.86	2.96	140	3.27	7010	7945	871	798
108-26-3239	1250	3.05	3.15	140	3.46	8140	9075	971	889
108-26-3241	1500	3.18	3.28	140	3.59	9145	10200	1058	967
108-26-3243	1750	3.35	3.45	140	3.75	10300	11400	1126	1033
108-26-3245	2000	3.44	3.54	140	3.85	11300	12900	1188	1090
108-26-3247	2250	3.56	3.66	140	3.97	13000	14600	1243	1141
108-26-3249	2500	3.63	3.73	140	4.04	13300	14800	1287	1181
138kV Aluminum Conductor - Okoguard Insulation = 850 mils									
128-26-3235	750	2.78	2.88	140	3.19	4550	5190	592	541
128-26-3237	1000	2.93	3.03	140	3.34	5060	5715	691	633
128-26-3239	1250	3.05	3.15	140	3.46	5515	6165	777	711
128-26-3241	1500	3.18	3.28	140	3.59	5995	6695	856	782
128-26-3243	1750	3.35	3.45	140	3.75	6550	7625	920	844

▲ Authorized Stock Item

Available from our Customer Service Centers.

(1) Ampacities are in accordance with ICEA P-53-426 for three single 69kV conductors directly buried or in individual ducts underground, 36 deep with 7 1/2 spacing between conductors, 105°C maximum conductor temperature, 25°C earth temperature, soil resistivity of 90 RHO, 100% load factor and open circuit shields.

Note: Ampacity per IEEE Std 835; Geometry k for Duct Burial and g for duct. Tc=90°C, Ta=20°C, LF=100%

District Offices, Manufacturing Plants & Service Centers

Manufacturing Plants



Orangeburg, SC - Compound Facility



Orangeburg, SC - Manufacturing Plant



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Santa Maria, CA - Manufacturing Plant



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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

(281) 821-5500

FAX: (281) 821-7855

E-Mail: houston@okonite.com

Kansas City District Office

(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

(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

(302) 318-2054

FAX: (302) 368-4163

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

(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

(302) 318-2054

FAX: (302) 368-4163

E-Mail: washington@okonite.com

International Sales

(281) 821-5500

FAX: (281) 821-7855

E-Mail: houston@okonite.com

Service Centers



Houston, TX



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THE OKONITE COMPANY
102 Hilltop Road, Ramsey, NJ 07446 • 201.825.0300 • www.okonite.com



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