

# EPSILON COMPOSITE CABLE

The alternative



HVCRC® Conductor Data Sheets															
HVCRC®			Aluminum Cross sectional area	Diameter	Core Diameter	Weight	Core Rated Strength	Cond. Rated Strength	DC at 20°C / 68°F	AC at 25°C / 77°F	AC at 75°C / 167°F	AC at 180°C / 356°F	Ampacity <sup>(1)</sup>		
Reference	International Size	ASTM Size	(kcmil)	(inch)	(inch)	(lb/mile)	(kips)	(kips)	(Ohm/Km)	(Ohm/Km)	(Ohm/Km)	(Ohm/Km)	75°C / 167°F	160°C / 320°F	180°C / 356°F
HVCRC® 130 - 28	SILVASSA	-	243	0.565	0.235	1,390.1	13.4	15.1	0.3664	0.3747	0.4492	0.6056	681	722	759
HVCRC® 160 - 28	HELSINKI	PASADENA	301	0.616	0.235	1,681.0	13.4	15.5	0.2955	0.3025	0.3625	0.4885	778	825	869
HVCRC® 160 - 47	JAIPUR	-	304	0.650	0.305	1,820.7	23.8	25.9	0.2932	0.3002	0.3597	0.4848	794	843	887
HVCRC® 160 - 18	BERN	-	314	0.610	0.190	1,680.9	8.8	10.9	0.2829	0.2897	0.3471	0.4678	793	841	885
HVCRC® 180 - 40	ZADAR	-	350	0.673	0.280	2,004.1	20.0	22.4	0.2540	0.2603	0.3118	0.4201	862	915	964
HVCRC® 190 - 28	ROVINJ	-	373	0.673	0.235	2,039.7	13.4	16.0	0.2383	0.2445	0.2927	0.3943	890	944	995
HVCRC® 230 - 28	COPENHAGEN	LINNET	437	0.720	0.235	2,355.1	13.4	16.4	0.2036	0.2092	0.2504	0.3371	983	1,044	1,100
HVCRC® 230 - 40	REYKJAVIK	ORIOLE	440	0.741	0.280	2,450.8	20.0	23.0	0.2020	0.2076	0.2484	0.3344	996	1,057	1,114
HVCRC® 230 - 87	MONTE CARLO	-	452	0.818	0.415	2,826.4	44.0	47.1	0.1972	0.2027	0.2426	0.3265	1,039	1,104	1,164
HVCRC® 240 - 47	GLASGOW	WACO	470	0.770	0.305	2,647.8	23.8	27.0	0.1893	0.1947	0.2329	0.3135	1,041	1,105	1,165
HVCRC® 250 - 28	GDANSK	-	488	0.756	0.235	2,610.6	13.4	16.8	0.1820	0.1874	0.2241	0.3016	1,055	1,121	1,181
HVCRC® 280 - 40	CASABLANCA	LAREDO	544	0.807	0.280	2,964.2	20.0	23.7	0.1635	0.1687	0.2016	0.2711	1,136	1,207	1,272
HVCRC® 320 - 60	OSLO	IRVING	622	0.882	0.345	3,489.4	30.4	34.7	0.1431	0.1481	0.1768	0.2375	1,248	1,326	1,399
HVCRC® 320 - 40	USBON	HAWK	625	0.858	0.280	3,368.7	20.0	24.3	0.1423	0.1472	0.1759	0.2362	1,240	1,318	1,391
HVCRC® 370 - 47	AMSTERDAM	DOVE	728	0.927	0.305	3,928.6	23.8	28.8	0.1221	0.1271	0.1515	0.2032	1,370	1,457	1,538
HVCRC® 410 - 47	CORDOBA	-	790	0.962	0.305	4,236.2	23.8	29.2	0.1127	0.1176	0.1401	0.1877	1,443	1,535	1,620
HVCRC® 430 - 52	BRUSSELS	GROSBEAK	832	0.989	0.320	4,477.7	26.2	31.9	0.1069	0.1118	0.1331	0.1782	1,494	1,590	1,679
HVCRC® 470 - 60	STOCKHOLM	LUBBOCK	914	1.039	0.345	4,940.6	30.4	36.7	0.0972	0.1022	0.1215	0.1624	1,590	1,692	1,788
HVCRC® 520 - 60	WARSAW	CUCKOO	1,013	1.091	0.345	5,437.3	30.4	37.3	0.0879	0.0930	0.1103	0.1472	1,696	1,806	1,909
HVCRC® 530 - 71	DUBLIN	DRAKE	1,036	1.109	0.375	5,616.3	36.0	43.1	0.0858	0.0909	0.1078	0.1438	1,725	1,837	1,942
HVCRC® 560 - 60	HAMBURG	PLANO	1,088	1.127	0.345	5,813.4	30.4	37.8	0.0818	0.0870	0.1030	0.1372	1,774	1,891	1,999
HVCRC® 580 - 60	MILAN	CORPUS CHRISTI	1,130	1.146	0.345	6,019.2	30.4	38.1	0.0789	0.0841	0.0996	0.1325	1,815	1,935	2,046
HVCRC® 600 - 71	ROME	ARLINGTON	1,175	1.176	0.375	6,311.7	36.0	44.0	0.0758	0.0812	0.0960	0.1276	1,866	1,989	2,104
HVCRC® 640 - 60	VIENNA	CARDINAL	1,244	1.198	0.345	6,590.4	30.4	38.9	0.0716	0.0771	0.0910	0.1208	1,929	2,057	2,176
HVCRC® 680 - 71	BUDAPEST	FORT WORTH	1,323	1.240	0.375	7,053.3	36.0	45.0	0.0673	0.0729	0.0859	0.1138	2,010	2,144	2,269
HVCRC® 700 - 60	PRAGUE	EL PASO	1,373	1.252	0.345	7,229.0	30.4	39.8	0.0649	0.0706	0.0831	0.1099	2,052	2,189	2,317
HVCRC® 740 - 71	MUNICH	BEAUMONT	1,456	1.294	0.375	7,713.2	36.0	45.9	0.0612	0.0670	0.0788	0.1039	2,132	2,276	2,410
HVCRC® 750 - 87	WARWICK	-	1,482	1.315	0.415	7,932.9	44.0	54.1	0.0600	0.0660	0.0775	0.1021	2,162	2,308	2,445
HVCRC® 770 - 75	LONDON	SAN ANTONIO	1,503	1.316	0.385	7,975.8	37.9	48.2	0.0592	0.0652	0.0765	0.1008	2,176	2,323	2,461
HVCRC® 820 - 60	PARIS	BITTERN	1,608	1.346	0.345	8,396.3	30.4	41.4	0.0554	0.0615	0.0721	0.0947	2,263	2,417	2,561
HVCRC® 880 - 87	BORDEAUX	-	1,725	1.408	0.415	9,150.7	44.0	55.8	0.0515	0.0579	0.0676	0.0885	2,374	2,537	2,690
HVCRC® 950 - 75	ANTWERP	DALLAS	1,862	1.453	0.385	9,760.5	37.9	50.6	0.0478	0.0545	0.0634	0.0827	2,482	2,654	2,816
HVCRC® 1020 - 75	MADRID	LAPWING	1,999	1.503	0.385	10,445.2	37.9	51.6	0.0446	0.0515	0.0598	0.0776	2,591	2,772	2,942
HVCRC® 1160 - 79	CHUKAR	CHUKAR	2,282	1.604	0.395	11,896.3	39.9	55.5	0.0391	0.0466	0.0537	0.0691	2,804	3,004	3,191

(1) Ampacity values based on IEEE Standard 738-2012, according to the following data: 60 Hz, zero elevation, 25°C (77°F) ambient temperature, 0.5 Solar Absorbtivity, 0.6 Emissivity, 0.61 m/s (2 ft/s) wind and 1000 W/m² (92.9 W/ft²), at corresponding surface temperatures. Coefficient of thermal resistance is 0.00407°C<sup>-1</sup>/0.002109°F<sup>-1</sup> for US sizes.

Governing Units: Metric to Imperial (Unit conversion).

Depending on conductor manufacturer rated specifications may slightly change.

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