EPSILON CABLE HVCRC® Conductor Data Sheets															
Conductor designation				**Aluminum Section**	**Diameter**	**Core Diameter**	**Weight**	**Core Rated Strength**	**Cond. Rated Strength**	**DC at 20°C**	**AC at 25°C**	**AC at 75°C**	**AC at 180°C**	**Ampacity [1]**	
Reference	Technical designation	International Size	ASTM Size	(mm²)	(mm)	(mm)	(Kg/Km)	(KN)	(KN)	(Ohm/km)	(Ohm/km)	(Ohm/km)	(Ohm/km)	75°C	180°C
HVCRC 130 - 28	ECRC 130-AL0/28-L1	SILVASSA	-	123	14.35	5.97	392.6	59.8	67.2	0.2277	0.2326	0.2785	0.3747	432	723
HVCRC 160 - 28	ECRC 160-AL0/28-L1	HELSINKI	PASADENA	153	15.65	5.97	474.6	59.8	69.0	0.1836	0.1877	0.2247	0.3023	492	827
HVCRC 160 - 47	ECRC 160-AL0/47-S1	JAIPUR	-	154	16.51	7.75	513.2	105.8	115.1	0.1822	0.1863	0.2230	0.3000	501	844
HVCRC 180 - 40	ECRC 180-AL0/40-S1	ZADAR	-	178	17.09	7.11	564.9	89.1	99.7	0.1578	0.1615	0.1932	0.2599	543	917
HVCRC 190 - 28	ECRC 190-AL0/28-L1	ROVINJ	-	189	17.09	5.97	575.7	59.8	71.2	0.1481	0.1516	0.1814	0.2439	561	946
HVCRC 230 - 28	ECRC 230-AL0/28-L1	COPENHAGEN	LINNET	221	18.29	5.97	664.6	59.8	73.1	0.1265	0.1297	0.1551	0.2085	618	1,046
HVCRC 230 - 40	ECRC 230-AL0/40-S1	REYKJAVIK	ORIOLE	223	18.82	7.11	690.8	89.1	102.5	0.1255	0.1287	0.1539	0.2068	625	1,060
HVCRC 230 - 87	ECRC 230-AL0/87-S1	MONTE CARLO	-	229	20.78	10.54	796.6	195.8	209.5	0.12251	0.1256	0.1502	0.2019	650	1,107
HVCRC 240 - 47	ECRC 240-AL0/47-S1	GLASGOW	WACO	238	19.55	7.75	746.3	105.8	120.1	0.1176	0.1207	0.1442	0.1939	652	1,108
HVCRC 250 - 28	ECRC 250-AL0/28-L1	GDANSK	-	248	19.21	5.97	736.6	59.8	74.7	0.1131	0.1161	0.1388	0.1865	662	1,123
HVCRC 280 - 40	ECRC 280-AL0/40-S1	CASABLANCA	LAREDO	276	20.51	7.11	835.5	89.1	105.6	0.1016	0.1044	0.1248	0.1676	710	1,210
HVCRC 320 - 60	ECRC 320-AL0/60-S1	OSLO	IRVING	315	22.4	8.76	983.5	135.2	154.1	0.0889	0.0916	0.1094	0.1468	777	1,330
HVCRC 320 - 40	ECRC 320-AL0/40-S1	LISBON	HAWK	317	21.79	7.11	949.5	89.1	108.1	0.0884	0.0911	0.1088	0.1460	773	1,322
HVCRC 370 - 47	ECRC 370-AL0/47-S1	AMSTERDAM	DOVE	369	23.55	7.75	1107.3	105.8	128.0	0.0759	0.0785	0.0936	0.1255	852	1,461
HVCRC 410 - 47	ECRC 410-AL0/47-S1	CORDOBA	-	400	24.43	7.75	1194.0	105.8	129.9	0.07	0.0725	0.0865	0.1158	895	1,539
HVCRC 430 - 52	ECRC 430-AL0/52-S1	BRUSSELS	GROSBEAK	422	25.13	8.13	1262.0	116.5	141.8	0.0664	0.0689	0.0821	0.1100	925	1,595
HVCRC 470 - 60	ECRC 470-AL0/60-S1	STOCKHOLM	LUBBOCK	463	26.4	8.76	1392.5	135.2	163.0	0.0604	0.0629	0.0749	0.1002	982	1,698
HVCRC 520 - 60	ECRC 520-AL0/60-S1	WARSAW	GALVESTON	513	27.72	8.76	1532.5	135.2	166.0	0.0546	0.0571	0.0679	0.0907	1,045	1,813
HVCRC 530 - 71	ECRC 530-AL0/71-S1	DUBLIN	DRAKE	525	28.17	9.53	1583.0	160.1	191.5	0.0533	0.0559	0.0664	0.0886	1,062	1,844
HVCRC 560 - 60	ECRC 560-AL0/60-S1	HAMBURG	PLANO	552	28.62	8.76	1638.5	135.2	168.3	0.0508	0.0534	0.0634	0.0845	1,092	1,898
HVCRC 580 - 60	ECRC 580-AL0/60-S1	MILAN	CORPUS CHRISTI	573	29.1	8.76	1696.5	135.2	169.6	0.049	0.0516	0.0612	0.0816	1,116	1,943
HVCRC 600 - 71	ECRC 600-AL0/71-S1	ROME	ARLINGTON	595	29.87	9.53	1779.0	160.1	195.8	0.0471	0.0497	0.0589	0.0785	1,145	1,998
HVCRC 640 - 60	ECRC 640-AL0/60-S1	VIENNA	CARDINAL	630	30.42	8.76	1857.5	135.2	173.1	0.0445	0.0472	0.0558	0.0743	1,183	2,066
HVCRC 680 - 71	ECRC 680-AL0/71-S1	BUDAPEST	FORT WORTH	670	31.49	9.53	1988.0	160.1	200.3	0.0418	0.0445	0.0526	0.0699	1,230	2,154
HVCRC 700 - 60	ECRC 700-AL0/60-S1	PRAGUE	EL PASO	696	31.8	8.76	2037.5	135.2	177.0	0.0403	0.0430	0.0509	0.0675	1,255	2,200
HVCRC 740 - 71	ECRC 740-AL0/71-S1	MUNICH	BEAUMONT	738	32.87	9.53	2174.0	160.1	204.3	0.038	0.0408	0.0481	0.0638	1,301	2,288
HVCRC 750 - 87	ECRC 750-AL0/87-S1	WARWICK	-	751	33.4	10.54	2235.9	195.8	240.8	0.0373	0.0401	0.0473	0.0627	1,319	2,321
HVCRC 770 - 75	ECRC 770-AL0/75-S1	LONDON	SAN ANTONIO	762	33.42	9.78	2248.0	168.6	214.3	0.0368	0.0396	0.0467	0.0619	1,327	2,337
HVCRC 820 - 60	ECRC 820-AL0/60-S1	PARIS	BITTERN	815	34.2	8.76	2366.5	135.2	184.1	0.0344	0.0373	0.0439	0.0580	1,378	2,432
HVCRC 880 - 87	ECRC 880-AL0/87-S1	BORDEAUX	-	874	35.76	10.54	2579.1	195.8	248.2	0.032	0.0350	0.0411	0.0542	1,442	2,556
HVCRC 950 - 75	ECRC 950-AL0/75-S1	ANTWERP	DALLAS	944	36.9	9.78	2751.0	168.6	225.2	0.0297	0.0328	0.0384	0.0505	1,504	2,675
HVCRC 1020 - 75	ECRC 1020-AL0/75-S1	MADRID	LAPWING	1013	38.18	9.78	2944.0	168.6	229.3	0.0277	0.0309	0.0361	0.0473	1,566	2,796
HVCRC 1160 - 79	ECRC 1160-AL0/79-S1	-	CHUKAR	1156	40.74	10.03	3353.0	177.3	246.7	0.0243	0.0278	0.0323	0.0419	1,688	3,036

(1) Ampacity values based on IEEE Standard 738-2012, according to the following data: 50 Hz, zero elevation, 25˚C ambient temperature, 0.5 Solar Absorbtivity, 0.6 Emissivity, 0.61 m/sec wind and 1000 W/m², at corresponding surface temperatures. Coefficient of thermal resistance is 0.00403 for International sizes.

Depending on conductor manufacturer rated specifications may slightly change.

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