

UNDERGROUND (DIRECT BURIED) CABLE SELECTION CHART (ALUMINIUM - 33KV)

VOLTAGE

CABLE DATA

CABLE MATERIAL

INSTALLATION METHOD

CONDUCTOR OPERATING TEMPERATURE

AMBIENT AIR TEMPERATURE

AMBIENT SOIL TEMPERATURE

SOIL THERMAL RESISTIVITY

DEPTH OF BURIAL

33KV

3-core Cable (1C)

Aluminium

Direct Burial

90 °C

35 °C

35 °C

1.2 K.m/W

0.7 m

CABLE RATING FACTORS:

SOIL TEMPERATURE RATING FACTOR

SOIL THERMAL RESISTIVITY RATING FACTOR

DEPTH OF BURIAL

TOTAL CORRECTING FACTOR

ALLOWABLE CABLE VOLTAGE DROP

POWER FACTOR

1.00

1.00

1

1.0000

5%

0.95

Cable Size, mm ²
AC Resistance @ 50Hz - 90°C, ohm/km
Inductive Reactance @ 50Hz, ohm/km
Impedance @ 50Hz, ohm/km
Current Carrying Capacity (A)
Adjusted Current Carrying Capacity (A)

16	25	35	50	70	95	120	150	185	240	300	400	500
0	0	0	0.821	0.568	0.41	0.325	0.254	0.211	0.161	0.13	0.102	0.0815
0	0	0	0.147	0.136	0.129	0.134	0.12	0.117	0.112	0.108	0.105	0.099
0.0000	0.0000	0.0000	0.8691	0.5841	0.4398	0.3479	0.2700	0.2413	0.1861	0.1630	0.1400	0.1282
0	0	0	158	194	232	284	295	324	388	438	522	570
0	0	0	208	254	304	345	360	407	508	574	688	747

Maximum Cable Lengths (km)

LOAD (KVA)	CURRENT (A)
40	9.7
50	11.9
75	17.8
100	23.7
150	35.6
200	47.5
240	57.4
300	71.7
350	86.1
400	100.5
500	125.6
600	150.7
700	175.8
800	200.9
900	226.0
1,000	251.1
1,200	301.3
1,400	351.5
1,600	401.7
1,800	451.9
2,000	502.1
2,500	627.6
3,000	753.1
4,000	1004.1
5,000	1255.2
6,000	1506.2
7,000	1757.3
8,000	2008.3
9,000	2259.4
10,000	2510.4

MAXIMUM LENGTH (km) - 33KV												
			1695	2386	3077	3768	4459	5150	5841	6532	7223	7914
			1358	1908	2458	3007	3557	4107	4657	5207	5757	6307
			854	1273	1692	2111	2530	2949	3368	3787	4206	4625
			678	954	1230	1507	1783	2060	2337	2614	2891	3168
			492	696	899	1102	1305	1507	1814	2121	2428	2735
			338	477	616	755	894	1033	1205	1368	1531	1694
			271	382	493	604	715	826	937	1048	1159	1270
			194	275	356	437	518	599	680	761	842	923
			90	127	164	201	238	275	312	349	386	423
			68	95	122	149	176	203	230	257	284	311
			57	80	102	124	147	169	191	214	236	258
			46	64	81	99	117	135	153	171	189	207
			34	48	61	75	89	103	117	131	145	159
			27	38	48	59	70	81	92	103	114	125
			14	19	24	29	34	39	44	49	54	59
			11	15	19	23	27	31	35	39	43	47
			9	12	15	18	21	24	27	30	33	36
			7	10	12	14	16	18	20	22	24	27
							9	11	14	17	20	23
										11	13	16

Note: (Shaded area indicates that load current is higher than cable current carrying capacity)

Hv Cable Selection Guide

N.H. Malik,A. A. Al-Arainy,M.I. Qureshi

Hv Cable Selection Guide:

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