

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 Buried

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	0.7041	0.4708	0.3479	0.2900	0.2413	0.1901	0.1630	0.1400	0.1282
0	0	0	188	198	232	264	295	324	388	438	502	570
0	0	0	208	214	254	284	320	347	408	474	538	617

Maximum Cable Lengths (km)

LOAD (KVA)	CURRENT (A)
40	8.7
50	9.9
75	14.8
100	19.7
150	29.6
200	39.5
250	49.4
300	59.3
350	69.2
400	79.1
500	99.0
600	118.9
700	138.8
800	158.7
900	178.6
1,000	198.5
1,200	238.4
1,400	278.3
1,600	318.2
1,800	358.1
2,000	398.0
2,500	497.9
3,000	597.8
4,000	797.7
5,000	997.6
6,000	1197.5
7,000	1397.4
8,000	1597.3
9,000	1797.2
10,000	1997.1

MAXIMUM LENGTH (km) - 33KV												
			1695	2386	3077	3768	4459	5150	5841	6532	7223	7914
			1368	1908	2448	3140	3780	4421	5070	5720	6369	7019
			854	1273	1592	2006	2424	2844	3248	3648	4048	4448
			678	954	1230	1571	1978	2380	2791	3198	3603	4014
			492	696	894	1147	1392	1637	1874	2113	2354	2594
			338	477	640	796	956	1120	1285	1450	1620	1787
			271	382	513	628	751	864	974	1087	1199	1309
			194	271	354	434	515	592	672	754	834	914
			90	127	171	209	250	291	335	377	421	463
			68	95	128	167	198	230	261	292	328	367
			57	80	107	137	167	198	224	251	280	309
			46	64	86	105	125	145	167	187	204	233
			34	48	64	79	94	110	127	144	160	178
			27	38	51	63	75	88	102	115	129	147
			14	19	26	31	38	45	52	60	67	75
			11	15	21	25	30	36	41	48	54	61
			9	12	17	21	25	30	37	44	50	57
			7	10	13	16	19	23	28	33	40	47
							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

Gouda, Osama El-Sayed



Hv Cable Selection Guide:

Aids to Navigation, Technical (including Changes 1 Through 5)., 1986 *Electrical Power Engineering Reference & Applications Handbook* K.C.Agrawal, 2020-11-10

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Electrical Insulation in Power Systems N.H. Malik,A. A. Al-Arainy,M. I. Qureshi,2018-02-06 Covers the design operations diagnostics and testing of electrical insulation in high voltage power networks The book presents the fundamental properties of dielectrics essential for the optimum design of power systems It provides a survey of advanced digital and electro optic techniques used in both the field and research

Accessories for HV and EHV Extruded Cables Pierre Argaut,2023-05-31 This CIGRE Green book on accessories for HV and EHV extruded cables covers relevant issues in cable system design cable design and submarine cables including offshore generation connection It provides comprehensive and unbiased information essential recommendations and guidelines for design installation testing and maintenance of accessories to professionals through the exceptional expertise of the authors The publication is divided in two volumes covering land and submarine applications HVAC and HVDC systems and transitions from lapped cable systems to extruded cable systems from OHL to UG cables and from cables to substations It equips the reader with recommendations for testing installation maintenance and remaining life

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Naval Shore Electronics Criteria United States. Navy. Electronics Systems Command, 1970 Environmental Impacts on Underground Power Distribution Gouda, Osama El-Sayed, 2016-01-07 The successful transmission of electrical power beneath the surface of the earth depends on a number of factors including ambient temperature sheath bonding cable laying depth and especially the formation of dry zones around underground cables Environmental Impacts on Underground Power Distribution studies the factors which affect the maximum current rating of subterranean power cables as well as various methods to maximize electrical current transmission Focusing on the latest tools methodologies and research in the field this publication is designed for use by electrical engineers academicians researchers and upper level students *Selected Papers from 2018 IEEE International Conference on High Voltage Engineering (ICHVE 2018)* Issouf Fofana, Ioannis F. Gonos, 2021-03-04 The 2018 IEEE International Conference on High Voltage Engineering ICHVE 2018 was held on 10 13 September 2018 in Athens Greece organized by the National Technical University of Athens Greece and endorsed by the IEEE Dielectrics and Electrical Insulation Society This conference has attracted a great deal of attention from international researchers in the field of high voltage engineering This conference provided not only an excellent platform to share knowledge and experiences on high voltage engineering but also the opportunity to present the latest achievements and different emerging challenges in power engineering including topics related to ultra high voltage smart grids and new insulation materials and their dielectric properties *Server+ Study Guide* Brad Hryhoruk, Diana Bartley, Quentin Docter, 2006-07-14 Server is one of the newest certifications from CompTIA the sponsor of such vendor neutral IT certifications as A and Network Server is positioned alongside Network as a follow up to A certification The Server exam

focuses on network hardware while the Network exam focuses on network software The Server exam certifies the knowledge of mid to upper level technicians with 18 24 months of strong IT experience using hardware functionality including server installation troubleshooting support and second level support *Monthly Catalog of United States Government Publications*
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