

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

25 °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	340	360	407	508	574	688	747

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
240	47.4
300	59.3
350	71.2
400	83.1
500	103.9
600	124.7
700	145.5
800	166.3
900	187.1
1,000	207.9
1,200	249.5
1,400	291.1
1,600	332.7
1,800	374.3
2,000	415.9
2,500	519.9
3,000	623.9
3,500	727.9
4,000	831.9
4,500	935.9
5,000	1,039.9

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	1175	1507	1838	2169	2500	2831	3162	3493	3824
			678	954	1230	1517	1803	2090	2377	2664	2951	3237
			492	696	899	1107	1302	1507	1707	1914	2121	2328
			338	477	616	755	894	1033	1172	1311	1450	1589
			271	382	493	604	715	826	937	1048	1159	1270
			194	271	348	424	501	578	655	732	809	886
			90	127	161	195	230	265	300	335	370	405
			68	95	126	157	188	219	250	281	312	343
			57	80	107	131	157	184	210	237	264	291
			46	64	85	105	125	145	167	187	207	227
			34	48	64	79	94	110	127	144	161	178
			27	38	51	63	75	88	102	117	132	147
			14	19	26	31	36	41	46	51	56	61
			11	15	21	25	30	36	41	46	51	56
			9	12	17	21	25	30	35	40	45	50
			7	10	13	16	19	23	26	30	33	37
							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

Malik



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Aids to Navigation, Technical (including Changes 1 Through 5). ,1986 Naval Shore Electronics Criteria United States. Navy. Electronics Systems Command,1970 **Electrical Insulation in Power Systems** Malik,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 *Electrical Power Engineering Reference & Applications Handbook* K.C.Agrawal ,2020-11-10 SOME UNIQUE FEATURES Special thrust on energy conservation pollution control and space saving in consonance with the latest global requirements Special Coverage on earthquake engineering and tsunami Seismic testing of critical machines In all there are 32 Chapters and 2 Appendices Each chapter is very interesting and full of rare Information The book contains 5 parts and each part is a mini encyclopedia on the subjects covered Many topics are research work of the author and may have rare information not available in most works available in the market Tables of all relevant and equivalent Standards IEC BS ANSI NEMA IEEE and IS at the end of each chapter is a rare feature APPLICATIONS OF THE HANDBOOK For professionals and practising engineers As a reference handbook for all professionals and practising engineers associated with design engineering production quality assurance protection and testing Project engineering project design and project Implementation A very useful book for every industry for selection Installation and maintenance of electrical machines For practising engineers It would be like keeping a gospel by their sides For Inhouse training programmes Unique handbook for inhouse training courses for Industries power generating transmission and distribution organizations For students and research scholars As a reference textbook for all electrical engineering students in the classrooms and during practical training It can bridge the gap between the theory of the classroom and the practice in the field A highly recommended book for all engineering colleges worldwide right from 1st year through final year It will prove to be a good guide during higher studies and research activities Subjects like Earthquake Engineering Intelligent Switchgears SCADA Power Systems Surges Temporary Over Voltage Surge Protection Reactive Power Control and Bus Systems etc are some pertinent topics that can form the basis of their higher studies and research work The book shall help in technological and product development and give a fresh Impetus to R D 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 **Transmission and Distribution Electrical Engineering** Colin Bayliss,Brian Hardy,2006-12-18 Dramatic power outages in North America and

the threat of a similar crisis in Europe have made the planning and maintenance of the electrical power grid a newsworthy topic. Most books on transmission and distribution electrical engineering are student texts that focus on theory, brief overviews or specialized monographs. Colin Bayliss and Brian Hardy have produced a unique and comprehensive handbook aimed squarely at the engineers and planners involved in all aspects of getting electricity from the power plant to the user via the power grid. The resulting book is an essential read and a hard working reference for all engineers, technicians, managers and planners involved in electricity utilities and related areas such as generation and industrial electricity usage. An essential read and hard working ref **Monthly Catalog of United States Government Publications**, 1975

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 into 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 management. This volume is dedicated to Land and Submarine AC/DC Applications while Volume 1 deals with Components. The book compiles the results of the work achieved by several Working Groups and Task Forces of CIGRE Study Committee 21 B1 and Joint Working Groups and Joint Task Forces with other Study Committees. Many experts from Study Committees 21 B1 Insulated Cables, 15 D1 Materials and Emerging Test Techniques, 33 B3 Substations, C3 System Environmental Performance and C4 System Technical Performance have participated in this work in the last 30 years in order to offer comprehensive, continuous and consistent outputs. **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. **Electric Power**

Distribution Handbook Thomas Allen Short, 2003-09-15 Of the big three components of the electricity infrastructure, distribution typically gets the least attention and no thorough up to date treatment of the subject has been published in years. Filling that void the Electric Power Distribution Handbook provides comprehensive information on the electrical aspects of

power distribution systems It is an unparalleled source for the background information hard to find tables graphs methods and statistics that power engineers need and includes tips and solutions for problem solving and improving performance In short this handbook gives readers the tools they need to understand the science and practices of distribution systems

Airframe Test Guide 2000 Dale Crane,FAA Staff,1999-05 **Practical Power Plant Engineering** Zark

Bedalov,2020-01-24 Practical Power Plant Engineering offers engineers new to the profession a guide to the methods of practical design equipment selection and operation of power and heavy industrial plants as practiced by experienced engineers The author a noted expert on the topic draws on decades of practical experience working in a number of industries with ever changing technologies This comprehensive book written in 26 chapters covers the electrical activities from plant design development to commissioning It is filled with descriptive examples brief equipment data sheets relay protection engineering calculations illustrations and common sense engineering approaches The book explores the most relevant topics and reviews the industry standards and established engineering practices For example the author leads the reader through the application of MV switchgear MV controllers MCCs and distribution lines in building plant power distribution systems including calculations of interrupting duty for breakers and contactors The text also contains useful information on the various types of concentrated and photovoltaic solar plants as well as wind farms with DFIG turbines This important book Explains why and how to select the proper ratings for electrical equipment for specific applications Includes information on the critical requirements for designing power systems to meet the performance requirements Presents tests of the electrical equipment that prove it is built to the required standards and will meet plant specific operating requirements Written for both professional engineers early in their career and experienced engineers Practical Power Plant Engineering is a must have resource that offers the information needed to apply the concepts of power plant engineering in the real world

Electric Power Distribution Handbook, Second Edition Thomas Allen Short,2014-05-19 Of the big three components of electrical infrastructure distribution typically gets the least attention In fact a thorough up to date treatment of the subject hasn t been published in years yet deregulation and technical changes have increased the need for better information Filling this void the Electric Power Distribution Handbook delivers comprehensive cutting edge coverage of the electrical aspects of power distribution systems The first few chapters of this pragmatic guidebook focus on equipment oriented information and applications such as choosing transformer connections sizing and placing capacitors and setting regulators The middle portion discusses reliability and power quality while the end tackles lightning protection grounding and safety The Second Edition of this CHOICE Award winner features 1 new chapter on overhead line performance and 14 fully revised chapters incorporating updates from several EPRI projects New sections on voltage optimization arc flash and contact voltage Full color illustrations throughout plus fresh bibliographic references tables graphs methods and statistics Updates on conductor burndown fault location reliability programs tree contacts automation and grounding and personnel protection Access to an

author maintained support website distributionhandbook.com with problems sets resources and online apps An unparalleled source of tips and solutions for improving performance the Electric Power Distribution Handbook Second Edition provides power and utility engineers with the technical information and practical tools they need to understand the applied science of distribution

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

[Quick Reference to IEEE Standards](#), 1986 A complete index of all terms in IEEE Standards and ANSI Standards published by IEEE together with tables of contents of all the documents indexed Cover

HF Radio Antenna Systems United States. Navy. Electronics Systems Command, 1970

High Voltage Engineering and Testing Hugh McLaren Ryan, Institution of Electrical Engineers, 2001 High voltage Electrical engineering Electronic engineering Electrical testing Building and Construction

Handbook of Industrial Polyethylene and Technology Mark A. Spalding, Ananda Chatterjee, 2017-10-26 This handbook provides an exhaustive description of polyethylene The 50 chapters are written by some of the most experienced and prominent authors in the field providing a truly unique view of polyethylene The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene high density polyethylene copolymers and polyethylene produced from metallocene catalysts With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing fillers processing aids anti fogging agents pigments and flame retardants Common processing methods including extrusion blown film cast film injection molding and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding fiber processing pipe extrusion reactive extrusion wire and cable and foaming processes The business of polyethylene including markets world capacity and future prospects are detailed This handbook provides the most current and complete technology assessments and business practices for polyethylene resins

Industrial Power Systems Shoaib Khan, Sheeba Khan, Ghariani Ahmed, 2018-10-03 The modernization of industrial power systems has been stifled by industry's acceptance of extremely outdated practices Industry is hesitant to depart from power system design practices influenced by the economic concerns and technology of the post World War II period In order to break free of outdated techniques and ensure product quality and continuity of operations

engineers must apply novel techniques to plan design and implement electrical power systems Based on the author s 40 years of experience in Industry Industrial Power Systems illustrates the importance of reliable power systems and provides engineers the tools to plan design and implement one Using materials from IEEE courses developed for practicing engineers the book covers relevant engineering features and modern design procedures including power system studies grounding instrument transformers and medium voltage motors The author provides a number of practical tables including IEEE and European standards and design principles for industrial applications Long overdue Industrial Power Systems provides power engineers with a blueprint for designing electrical systems that will provide continuously available electric power at the quality and quantity needed to maintain operations and standards of production Electronics ,1945 June issues 1941 44 and Nov issue 1945 include a buyers guide section

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