

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

VOLTAGE

33KV

CABLE DATA

3 Core Cable (1C)

CABLE MATERIAL

Aluminium

INSTALLATION METHOD

Direct Buried

CONDUCTOR OPERATING TEMPERATURE

90 °C

AMBIENT AIR TEMPERATURE

35 °C

AMBIENT SOIL TEMPERATURE

35 °C

SOIL THERMAL RESISTIVITY

1.2 K.m/W

DEPTH OF BURIAL

0.8 m

CABLE RATING FACTORS:

SOIL TEMPERATURE RATING FACTOR

1.00

SOIL THERMAL RESISTIVITY RATING FACTOR

1.00

DEPTH OF BURIAL

1.00

TOTAL CORRECTING FACTOR

1.0000

ALLOWABLE CABLE VOLTAGE DROP

5 %

POWER FACTOR

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)
Corrected 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	0.098
0.0000	0.0000	0.0000	0.8691	0.5841	0.4398	0.3479	0.2900	0.2413	0.1901	0.1600	0.1400	0.1282
0	0	0	188	198	232	284	295	334	388	438	502	570
0	0	0	208	214	254	314	326	407	508	574	658	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
250	49.4
300	59.3
750	148.8
1,000	197.8
1,500	296.8
2,000	395.8
2,500	494.7
3,000	593.6
4,000	791.5
5,000	989.4
7,500	1483.2
10,000	1976.0
20,000	3951.9
30,000	5927.8
40,000	7903.7

MAXIMUM LENGTH (km) - 33KV												
			1695	2386	3077	3768	4459	5150	7027	8796	10565	11954
			1368	1908	2447	3142	3796	4521	6020	7527	9037	10347
			854	1273	1597	2036	2504	3014	3748	4675	5611	6350
			678	954	1280	1671	1978	2380	2971	3618	4363	4974
			492	696	954	1247	1592	1907	2474	3013	3656	4116
			338	477	640	796	978	1150	1495	1858	2222	2537
			271	382	513	628	751	884	1154	1437	1733	1989
			194	271	359	444	535	632	842	1044	1267	1458
			90	127	171	209	250	301	375	462	557	623
			68	95	128	167	198	239	291	352	428	487
			57	80	107	137	167	198	254	317	389	446
			46	64	86	105	125	151	187	231	284	319
			34	48	64	79	94	113	141	176	219	254
			27	38	51	63	75	90	112	138	169	197
			14	19	26	31	38	45	56	69	85	98
			11	15	21	25	30	36	45	54	66	75
			9	12	17	21	25	30	37	44	53	60
			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

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Zhe Xu



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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 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 **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

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 **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 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

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

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

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

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

Monthly Catalog of United States Government Publications ,1975 *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, 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

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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 **High-Voltage Test and Measuring Techniques** Wolfgang Hauschild,Eberhard Lemke,2018-09-22 The new edition of this book incorporates the recent remarkable changes in electric power generation transmission and distribution The consequences of the latest development to High Voltage HV test and measuring techniques result in new chapters on Partial Discharge measurements Measurements of Dielectric Properties and some new thoughts on the Shannon Theorem and Impuls current measurements This standard reference of the international high voltage community combines high voltage engineering with HV testing techniques and HV measuring methods Based on long term experience gained by the authors the book reflects the state of the art as well as the future trends in testing and diagnostics of HV equipment It ensures a reliable generation transmission and distribution of electrical energy The book is intended not only for experts but also for students in electrical engineering and high voltage engineering **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 **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

Electrical Engineer's Reference Book M A Laughton, M G Say, 2013-10-22 Electrical Engineer's Reference Book Fourteenth Edition focuses on electrical engineering The book first discusses units mathematics and physical quantities including the international unit system physical properties and electricity The text also looks at network and control systems analysis The book examines materials used in electrical engineering Topics include conducting materials superconductors silicon insulating materials electrical steels and soft irons and relay steels The text underscores electrical metrology and instrumentation steam generating plants turbines and diesel plants and nuclear reactor plants The book also discusses alternative energy sources Concerns include wind geothermal wave ocean thermal solar and tidal energy The text then looks at alternating current generators Stator windings insulation output equation armature reaction and reactants and time constraints are described The book also examines overhead lines cables power transformers switchgears and protection supply and control of reactive power and power systems operation and control The text is a vital source of reference for readers interested in electrical engineering

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Table of Contents Hv Cable Selection Guide

1. Understanding the eBook Hv Cable Selection Guide
 - The Rise of Digital Reading Hv Cable Selection Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Hv Cable Selection Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hv Cable Selection Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hv Cable Selection Guide
 - Personalized Recommendations
 - Hv Cable Selection Guide User Reviews and Ratings
 - Hv Cable Selection Guide and Bestseller Lists
5. Accessing Hv Cable Selection Guide Free and Paid eBooks
 - Hv Cable Selection Guide Public Domain eBooks
 - Hv Cable Selection Guide eBook Subscription Services
 - Hv Cable Selection Guide Budget-Friendly Options
6. Navigating Hv Cable Selection Guide eBook Formats

- ePub, PDF, MOBI, and More
- Hv Cable Selection Guide Compatibility with Devices
- Hv Cable Selection Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hv Cable Selection Guide
 - Highlighting and Note-Taking Hv Cable Selection Guide
 - Interactive Elements Hv Cable Selection Guide
- 8. Staying Engaged with Hv Cable Selection Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hv Cable Selection Guide
- 9. Balancing eBooks and Physical Books Hv Cable Selection Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hv Cable Selection Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hv Cable Selection Guide
 - Setting Reading Goals Hv Cable Selection Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hv Cable Selection Guide
 - Fact-Checking eBook Content of Hv Cable Selection Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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