

IEEE Power Transmission and Distribution Standards Collection: VuSpec™

IEEE Power Transmission and Distribution Standards Collection: VuSpec™ contains the latest standards, guides, and recommended practices of the Institute of Electrical and Electronics Engineers, Inc. (IEEE) Transmission and Distribution Committee. This collection represents the most complete resource available for professional engineers looking for best practices and techniques treatment of all matters related to the design, theoretical and experimental performance, installation, and service operation of parts of electric power systems which serve to transmit electric energy between the generating sources and substations or customer points of common coupling through AC or DC lines.

It covers the analysis and treatment of the following areas are included: Overhead and underground AC and DC transmission and distribution systems; Flexible AC transmission systems (FACTS); Overhead conductors; Environmental impact of transmission lines; Lightning phenomena; Secondary network systems; Insulated line conductors; Structural coordination and mechanical problems of transmission lines; Switching surges and overvoltage phenomena; Insulation coordination (jointly with other Committees); Inductive coordination; Corona, electric fields, and magnetic fields; Towers, poles, insulators, and hardware; Shunt and series capacitors; Engineering in the safety, maintenance, and operation of lines; Harmonics and power quality; Distributed resources and distributed generation; Superconductivity analysis and devices; Integration of renewable energy sources into T&D systems; Security in T&D systems.

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- IEEE524-2003, IEEE Guide to the Installation of Overhead Transmission Line Conductors (Revision of IEEE Std 524 - 1992)
- IEEE Std 539™-2005 (R2010), Definitions of Terms Relating to Corona and Field Effects of Overhead Power Lines
- IEEE 563-1978 (R2007), IEEE Guide on Conductor Self-Damping Measurements
- IEEE 644-1994 (R2008), IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields From AC Power Lines
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- IEEE Std 1067™-2012, IEEE Guide for In-Service Use, Care, Maintenance, and Testing of Conductive Clothing for Use on Voltages up to 765 kV ac and 1750 kV dc
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- IEEE 1409-2012, IEEE Guide for Application of Power Electronics for Power Quality Improvement on Distribution Systems Rated 1 kV Through 38 kV
- IEEE 1410-2010, IEEE Guide for Improving the Lightning Performance of Electric Power Overhead Distribution Lines
- IEEE 1453-2011, IEEE Recommended Practice--Adoption of IEC 61000-4-15:2010, Electromagnetic compatibility (EMC)--Testing and measurement techniques--Flickermeter--Functional and design specifications
- IEEE 1453.1-2012, IEEE Guide--Adoption of IEC/TR 61000-3-7:2008, Electromagnetic compatibility (EMC)--Limits--Assessment of emission limits for the connection of fluctuating installations to MV, HV and EHV power systems
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- IEEE 1782-2014, IEEE Guide for Collecting, Categorizing, and Utilizing Information Related to Electric Power Distribution Interruption Events
- IEEE 1808-2011, IEEE Guide for Collecting and Managing Transmission Line Inspection and Maintenance Data

- IEEE 1815-2012, IEEE Standard for Electric Power Systems Communications-Distributed Network Protocol (DNP3)
- IEEE/ANSI C93.5-1997, American National Standard Requirements for Single Function Power-Line Carrier Transmitter/Receiver Equipment
- IEEE C135.1-1999, IEEE Standard for Zinc-Coated Steel Bolts and Nuts for Overhead Line Construction
- IEEE C135.2-1999, IEEE Standard for Threaded Zinc-Coated Ferrous Strand-Eye Anchor Rods and Nuts for Overhead Line Construction
- IEEE C135.3-2001, IEEE Standard for Zinc-Coated Ferrous Lag Screws for Overhead Line Construction
- IEEE C135.20-1998 (R2010), IEEE Standard for Zinc-Coated Ferrous Insulator Clevises for Overhead Line Construction
- IEEE C135.62-2009, IEEE Standard for Zinc-Coated Forged Anchor Shackles
- IEEE C135.61-1997 (R2006), IEEE Standard for the Testing of Overhead Transmission and Distribution Line Hardware
- IEEE C135.63-1998 (R2006), IEEE Standard for Shoulder Live Line Extension Links for Overhead Line Construction
- IEEE C135.64-2012, IEEE Guide for Slip and Pull-Out Strength Testing of Bolted Dead End Strain Clamps
- IEEE C135.80-2012, IEEE Standard for Fasteners for Overhead Line Construction
- IEEE C135.90-2014, IEEE Standard for Pole Line Hardware for Overhead Line Construction

- **Archived**
- IEEE 1441-2004 - IEEE Guide for Inspection of Overhead Transmission Line Construction
- IEEE C135.14-1979 - American National Standard staples with rolled or slush points for overhead line construction

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