

IEEE Guide for Field Testing of Laminated Dielectric, Shielded AC Power Cable Systems Rated 5 kV to 500 kV Using High Voltage Direct Current (HVDC)

IEEE Power and Energy Society

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New York, NY 10016-5997
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IEEE Std 400.1™-2018
(Revision of
IEEE Std 400.1-2007)

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Approved 05 December 2018

IEEE-SA Standards Board

Abstract: The recommended practices and procedures for direct voltage acceptance and maintenance testing of shielded, laminated, dielectric-insulated power cable systems rated 5 kV to 500 kV are presented in this guide. It applies to all types of laminated power cable systems such as paper insulated, lead covered, pipe-type, and pressurized cables that are intended for the transmission or distribution of ac electric power. The tabulated test levels assume that the cable systems have an effectively grounded neutral system or a grounded metallic shield.

Keywords: cable, cable installation, cable maintenance, cable tests, field test procedures, HVDC tests, IEEE 400.1™, insulated cable, power cable systems, shielded power cable systems

The Institute of Electrical and Electronics Engineers, Inc.
3 Park Avenue, New York, NY 10016-5997, USA

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PDF: ISBN 978-1-5044-5347-9 STD23436
Print: ISBN 978-1-5044-5348-6 STDPD23436

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