



# IEEE Standard for Control Switchboards

## Amendment 1: Control and Secondary Circuits and Devices, and All Wiring

IEEE Power and Energy Society

Developed by the  
Switchgear Committee

**IEEE Std C37.21a™-2020**  
(Amendment to IEEE Std C37.21™-2017)

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**Switchgear Committee**  
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**IEEE Power and Energy Society**

5 March 2020

**IEEE SA Standards Board**

**Abstract:** Requirements for control, secondary, and logic-level wiring are addressed in this amendment. It covers wire type, ampacity, and methods for protecting wiring across a hinge.

**Keywords:** benchboard, console, control desk, control switchboard, dead-front switchboard, dual benchboard, duplex benchboard, enclosed switchboard, fixed rack cabinet, IEEE C37.21™, IEEE C37.21a™, swing rack cabinet, vertical switchboard

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## Introduction

This introduction is not part of IEEE Std C37.21a-2020, IEEE Standard for Control Switchboards—Amendment 1: Control and Secondary Circuits and Devices, and All Wiring.

Control, secondary and logic-level wiring used in the equipment and covered by the IEEE C37.20™ series of documents share the same requirements for wire type, wire size, protection, and support. Through the years and numerous revisions, the words found in the construction clause of IEEE Std C37.20.1™, IEEE Std C37.20.2™, IEEE Std C37.20.3™, IEEE Std C37.20.9™, and IEEE Std C37.21™ have changed. This amendment serves to standardize the wording and requirements for control, secondary, and logic-level wiring throughout the IEEE C37.20 series by providing the changes necessary to update C37.21-2017.

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