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IEEE Guide for the Application of Separable Insulated Connectors

IEEE Power and Energy Society

Sponsored by the
Insulated Conductors Committee

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Abstract: General information on the application and operation of separable connectors is provided in this guide. It is intended to be basic and supplement the manufacturer's specific recommendations and established utility practices.
Keywords: deadbreak connector, elbow connector, IEEE 1215™, loadbreak connector, power distribution systems, separable connector, separable insulated connector systems

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Introduction

This introduction is not part of IEEE Std 1215-2013, IEEE Guide for the Application of Separable Insulated Connectors.

This guide is intended as a supplement to the training in high-voltage electrical equipment, established safe operating procedures, and the manufacturer's instructions for the application of separable insulated connectors. Installers and operators of separable connectors require formal training in the use of high-voltage electrical equipment. It is the users' responsibility to establish safe operating procedures and provide training. The manufacturers are required to provide installation and operating instructions for their products.

This document is the first revision to the original IEEE guide issued that addresses the application and operation of separable insulated connectors. This application guide is the product of close collaboration between representatives of both users and manufacturers of separable connectors. The separable connector working group of the Insulated Connector Committee provided valuable input to this guide.

This application guide is intended to be used in concert with IEEE Std 386, IEE Standard for Separable Insulated Connector Systems for Power Distribution Systems Above 600 V. IEEE Std 386 defines the ratings, construction specifications, service conditions, and qualification tests for separable insulated connectors.

IMPORTANT NOTICE: This guide provides only general information on the application and operation of separable insulated connectors. Users of this guide are responsible for determining and complying with appropriate environmental, health, safety and security laws, regulations, requirements and practices applicable to their location, systems, equipment, and operations.

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IEEE Guide for the Application of Separable Insulated Connectors

1. Overview

This guide covers the application of separable connectors, rated from 601 V to 35 kV (38 kV), 600 A and 900 A or less, for use on power distribution systems. Included are design considerations and guidelines for the construction, installation, and operation of 200 A loadbreak connectors and for 200 and 600 A and 900 A deadbreak connectors.

1.1 Scope

This guide provides general information on the application and operation of separable connectors. It is intended to be basic, and supplement the manufacturer's specific recommendations and established utility practices.

2. Normative references

The following referenced documents are indispensable for the application of this document (i.e., they must be understood and used, so each referenced document is cited in text and its relationship to this document is explained). For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies.