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Application Guide for Isolated Ground Wiring Devices



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Application Guide for Isolated Ground Wiring Devices

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Foreword

This *Application Guide for Isolated Ground Wiring Devices* was developed by the Wiring Device Section of the National Electrical Manufacturers Association.

In the preparation of this application guide, input of users and other interested parties and organizations has been sought and evaluated. Inquiries, comments, and proposed changes are welcome and should be submitted to:

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The purpose of this application guide is to assist the user in proper installation and use of isolated ground devices.

This guide was developed by the NEMA Wiring Device Section. Section approval of the standard does not necessarily imply that all section members voted for its approval or participated in its development. At the time it was approved, the group was composed of the following members:

BJB Electric LP, Ringgold, GA
Eaton, Peachtree City, GA
Enerlites Inc., Irvine, CA
Hubbell Canada LP, Pickering, ON
Hubbell Inc., Shelton, CT
Interpower Corporation, Oskaloosa, IA
Legrand / Pass & Seymour, Syracuse, NY
Leviton Manufacturing Co., Inc., Little Neck, NY
Lutron Electronics Company, Inc., Coopersburg, PA
Safety Quick Lighting and Fans, Corp., Marietta, GA
Schneider Electric/Square D Company, Andover, MA
Southwire/Technology Research Corp., Clearwater, FL
Tyco Electronics/Amp, Harrisburg, PA

Scope

This application guide covers wiring devices and accessories intended to help protect sensitive equipment from malfunction due to noise on the equipment grounding path. Devices include receptacles, single or duplex with standard blade or locking NEMA configurations, rated 15 A to 60 A and 125 V to 600 V. Accessories include color-coded mating plugs and wall plates to identify isolated ground receptacles.

In addition to indicating the devices and accessories available for isolated ground installations, this guide covers *National Electrical Code*[®] (NEC) requirements, applications for isolated ground circuits, and troubleshooting and maintenance of such installations.

This application guide does not consider analysis of noise currents on the grounding system of power supply circuits or their effects on sensitive electronic equipment.

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