

IEC 61010-1, Edition 3

By Dave Carr

Introduction

International standard IEC 61010-1 specifies safety requirements for a variety of electrical systems, including test and measurement, industrial process control, and laboratory equipment. The purpose of the standard is to minimize hazards to operators and the surrounding environment and equipment. The first edition was published in 1990, with the most recent third edition having been released in 2010. Many new elements were added in the third edition, including a complete rewrite of the section governing insulation requirements. This note discusses new requirements for thin film insulation and the impact on digital isolators utilizing this material as the isolation barrier.

IEC 61010-1, Edition 2

The first and second editions of IEC 61010-1 detailed external clearance and creepage requirements based on line voltage, pollution degree, material group, and altitude. In these earlier editions, interior clearance and creepage requirements were specifically excluded. The following text appears in Section 6.7 of the second edition:

"There are no clearance or creepage distance requirements for the interior of void-free moulded parts, including the inner layers of multi-layer printed circuit boards."

Based on the clearance and creepage distances achieved by digital isolator packaging at the time, compliance to IEC 61010-1, Edition 2, was granted by international certification agencies such as CSA, VDE, and TÜV.

IEC 61010-1, Edition 3

This changed in the third edition with a complete rewrite of Section 6.7. Insulation requirements are now specified based on construction, with separate sections for solid insulation, molded and potted parts, inner layers of printed wiring boards, and thin-film insulation. Two subsections apply to the construction of iCoupler® digital isolators: 6.7.2.2.2 Moulded and Potted Parts and 6.7.2.2.4 Thin Film Insulation.

iCoupler digital isolation products utilize industry-standard surface mount packages that incorporate unique design features in order to meet stringent safety requirements. The need for isolation within the package requires the use of multiple dies with specially designed lead frames that create two or more ground references that are galvanically isolated from one another. Therefore, Section 6.7.2.2.2 applies to any conductors separated along the molding compound interface. This section states:

"For basic insulation, supplementary insulation, and reinforced insulation, conductors located on an interface between the same two layers moulded together shall be separated by at least 0.4 mm (see Figure 6, item L) after the moulding is completed."

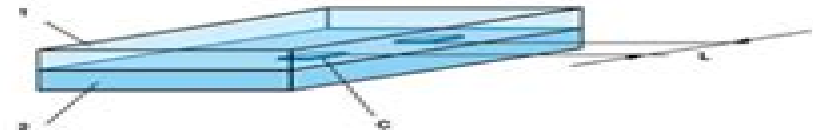


Figure 1. Diagram detailing distance between conductors for molded and potted parts.

Section 6.7.2.2.4 covers thin-film insulation and details new requirements for internal clearance and creepage distances. iCoupler products utilize a high quality polyimide layer as the insulation within chip-scale microtransformers. A figure in this section indicates how conductors on the same layers are now viewed in the context of clearance and creepage distances (see Figure 2).

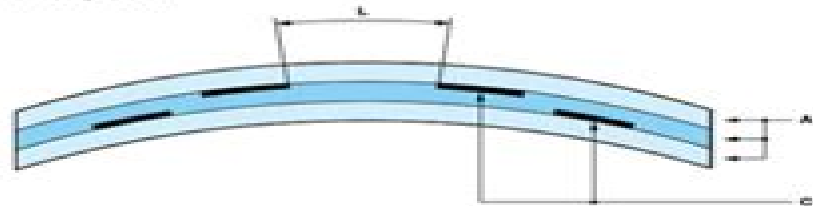


Figure 2. Diagram detailing clearance and creepage distance requirements for thin-film insulation.

For systems with mains voltages up to and including 300 V rms (or 300 V dc), conductors located on the same layer shall be separated by the applicable clearance and creepage distances in Table 1.

Clearance and creepage distance requirements for systems with mains voltages greater than 300 V are covered in Annex K. Internal clearance and creepage requirements remain, and greater distances are specified due to the larger voltages.

Table 1. Internal Clearance and Creepage Distance Requirements for Thin-Film Insulation

Voltage Line to Neutral or AC, RMS, or DC (V)	Values for Clearance (mm)	Values for Creepage Distance (mm)							
		Printed Wiring Board Material		Other Insulating Material					
		Pollution Degree 1	Pollution Degree 2	Pollution Degree 1	Pollution Degree 2			Pollution Degree 3	
		All Material Groups	Material Groups I, II, IIIa	All Material Groups	Material Group I	Material Group II	Material Group III	Material Group I	Material Group II
≤ 150	0.5	0.5	0.5	0.5	0.8	1.1	1.6	2.0	2.2
> 150 to 300	1.5	1.5	1.5	1.5	1.5	2.1	3.0	3.8	4.7

Iec 61010 3rd Edition

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Table of Contents Iec 61010 3rd Edition

1. Understanding the eBook Iec 61010 3rd Edition
 - The Rise of Digital Reading Iec 61010 3rd Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Iec 61010 3rd Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Iec 61010 3rd Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Iec 61010 3rd Edition
 - Personalized Recommendations
 - Iec 61010 3rd Edition User Reviews and Ratings
 - Iec 61010 3rd Edition and Bestseller Lists
5. Accessing Iec 61010 3rd Edition Free and Paid eBooks
 - Iec 61010 3rd Edition Public Domain eBooks
 - Iec 61010 3rd Edition eBook Subscription Services
 - Iec 61010 3rd Edition Budget-Friendly Options

6. Navigating Iec 61010 3rd Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Iec 61010 3rd Edition Compatibility with Devices
 - Iec 61010 3rd Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Iec 61010 3rd Edition
 - Highlighting and Note-Taking Iec 61010 3rd Edition
 - Interactive Elements Iec 61010 3rd Edition
8. Staying Engaged with Iec 61010 3rd Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Iec 61010 3rd Edition
9. Balancing eBooks and Physical Books Iec 61010 3rd Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Iec 61010 3rd Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Iec 61010 3rd Edition
 - Setting Reading Goals Iec 61010 3rd Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Iec 61010 3rd Edition
 - Fact-Checking eBook Content of Iec 61010 3rd Edition
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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