# IEC 61010-1, Edition 3

By Dave Carr

#### Introduction

International standard IEC 61010-1 specifies safety requirements for a wariety 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 /Coupler® digital isolators: 6.7.2.2.2 Moulded and Potted Parts and 6.7.2.2.4 Thin Film Insulation.

i Coupler 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 applies to any conductors separated along the modding 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."

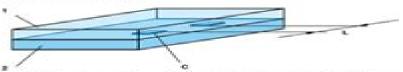


Figure 1. Diagram detailing distance between conductors for molated and potted parts.

Section 6.7.2.2.4 covers thin-film insulation and details new requirements for internal clearance and creepage distances. /Coupler 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).

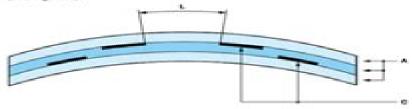


Figure 2: Diagram detailing clearance and creepage distance requirements for thin-film insulation.

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

Violitage Line to Newtral AC, MAS, or OC (x0	Values for Chearphose (ment)	Waters for Crompage Distance (mm)								
		Printed Wining Board Material		Other Insulating Material						
		Publisher Publisher Deprise 1 Dep	Politotion Segres 2	Desprise 1	Pullulium Degree 2			Pollution Degree 3		
			Matterlat Groupe I, R, Ma	All Material Groups	Material Group I	Material Group II	Material Group III	Material	Material Errosp S	Material Group III
n:150	0.6	9.5	0.5	0.5	0.8	1.1	5.6	2.0	3.3	2.5
> 950 N 300	1.5	3.5	1.5	1.5	3.5	2.1	3.0	3.6	4.1	4.7



# **Iec 61010 3rd Edition**

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Haemoglobin A1c point-of-care analysers for professional use World Health Organization, 2024-01-29 Power Electronic Packaging Yong Liu, 2012-02-15 Power Electronic Packaging presents an in depth overview of power electronic packaging design assembly reliability and modeling Since there is a drastic difference between IC fabrication and power electronic packaging the book systematically introduces typical power electronic packaging design assembly reliability and failure analysis and material selection so readers can clearly understand each task s unique characteristics Power electronic packaging is one of the fastest growing segments in the power electronic industry due to the rapid growth of power integrated circuit IC fabrication especially for applications like portable consumer home computing and automotive electronics This book also covers how advances in both semiconductor content and power advanced package design have helped cause advances in power device capability in recent years The author extrapolates the most recent trends in the book s areas of focus to highlight where further improvement in materials and techniques can drive continued advancements particularly in thermal management usability efficiency reliability and overall cost of power semiconductor solutions

**2008 Healthcare Standards Official Directory** ECRI Institute Staff, Ecri, 2007-12 **Modern Measurements** Alessandro Ferrero, Dario Petri, Paolo Carbone, Marcantonio Catelani, 2015-09-01 This book is a collection of chapters linked together by a logical framework aimed at exploring the modern role of the measurement science in both the technically most advanced applications and in everyday life Provides a unique methodological approach to understanding modern measurements Important methods and devices are presented in a synthetic and easy to understand way Includes end of Dacie and Lewis Practical Haematology Barbara J. Bain, Imelda Bates, Mike A Laffan, S. chapter exercises and solutions Mitchell Lewis, 2016-12-22 Highly Commended at 2012 BMA awards in Internal Medicine Category Recognized worldwide as the standard reference work Dacie Lewis Practical Haematology is a must have reference for any haematology laboratory It covers all of the techniques used in the investigation of patients with blood disorders including the latest technologies as well as the tried and true manual methods of measurement It discusses the principles of each test possible causes of error the rationale for choosing one method over another and the interpretation significance and clinical relevance of these findings Each chapter conforms to a template providing quick access to key information Harnessing AI, Blockchain, and Cloud Computing for Enhanced e-Government Services Lytras, Miltiadis Demetrios, Alkhaldi, Afnan N., Ordóñez de Pablos, Patricia, 2024-12-26 The integration of artificial intelligence AI blockchain and cloud computing revolutionizes the way governments deliver services to citizens creating new opportunities for efficient transparent and secure e government solutions AI can streamline decision making and automate processes for personalized services citizen need prediction and optimized resource allocation Blockchain technology offers enhanced security and accountability while cloud computing provides the scalability and flexibility needed to store and process vast amounts of data By harnessing the power of these

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