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."

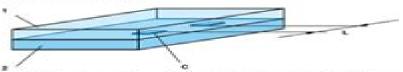


Figure 1. Diagram detailing distance between conductors for molated and potted parts.

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).

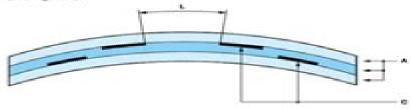


Figure 2: Diagram detailing clearance and creepage distance requirements for thin-film insulation.

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, BASS, or OC (VI)	Values for Chearphose (ment)	Waters for Crompage Distance (mm)								
		Printed Wining Board Material		Other Insulating Material						
		Pollution Pollu Degree 1 Degr All Material Man Groups Groups	Politotion Degree 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	Makesal	Material Eroup II	Material Group III
n:150	0.6	9.5	0.5	0.5	0.8	1.1	5.6	2.0	2.2	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



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WHO Technical specifications for health facility based medical oxygen systems World Health Organization, 2025-01-10 The Clinical Management and Operations Unit Country Readiness Strengthening Department in collaboration with the Medical Devices and Diagnostics Unit Health Products Policy and Standards Department have developed the Technical specifications for health facility based medical oxygen systems This publication outlines minimum quality and safety standards and features of medical oxygen sources storage and distribution products that are implemented inside health Foundations of Health Information Engineering and Systems Jeremy Gibbons, Wendy MacCaull, 2014-01-09 This facilities book constitutes the thoroughly refereed post conference proceedings of the Third International Symposium on Foundations of Health Information Engineering and Systems FHIES 2013 held in Macau China in August 2013 The 19 revised full papers presented together with 1 invited talk in this volume were carefully reviewed and selected from 22 submissions The papers are organized in following subjects panel position statements pathways generation and certification interoperability patient safety device safety formal methods and HIV AIDS and privacy 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

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