

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."

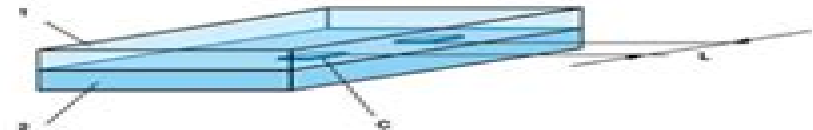


Figure 1. Diagram detailing distance between conductors for molded and potted parts.

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 microtransistors. 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).

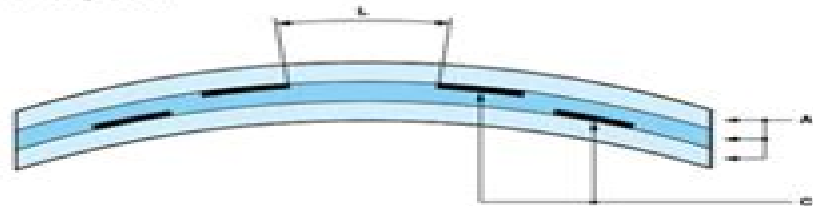


Figure 2. Diagram detailing clearance and creepage distance requirements for thin-film insulation.

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, III	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 1 3rd Edition

**Barbara J. Bain, Imelda Bates, Mike A
Laffan**

Iec 61010 1 3rd Edition:

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 IEC61010-1 CE 1 2 3 4 5 6 7 8 9 10
 2019-05-17 EU IEC61010 1 EN61010 1 EU CE IEC61010 1 CE IEC61010 1 CE 1 CE 2 CE 3 4 5 IEC61010 1 6 7 8 9 10

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 facilities

Foundations of Health Information Engineering and Systems Jeremy Gibbons, Wendy MacCaull, 2014-01-09 This 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

flexibility needed to store and process vast amounts of data By harnessing the power of these technologies governments can improve service delivery reduce operational costs and foster greater citizen engagement driving the digital transformation of public sector functions and contributing to responsive inclusive and efficient governance Further exploration of these technologies integration in government may provide insights into their role in enhancing public service delivery citizen engagement and administrative efficiency

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Plant and Process Engineering 360 Mike Tooley, 2009-12-07 Plant and Process Engineering 360 will be the backbone of any plant chemical or process engineer s library This is a broad area in which engineers need to be familiar with a wide array of techniques technologies and equipment Its focus on providing a broad introduction to key systems make the book the first point of reference for engineers who are involved with designing specifying maintaining or working with plant process and control technologies in many sectors including manufacturing chemical process and energy A single source of plant and process equipment information for engineers providing a 360 degree view of the critical equipment engineers encounter Enables readers to get up to speed with unfamiliar topics quickly with an overview of important but disparate technologies that are specific to plant engineering Covers the systems and processes that drive effective and efficient plants and processes Drawn from authoritative Elsevier resources this book is a first port of call with breadth and depth of content from leading figures in the field

Federal Register , 2013-06

Electrical Product Compliance and Safety Engineering Steli Loznen, Constantin Bolintineanu, Jan Swart, 2017-05-31 This comprehensive resource is designed to guide professionals in product compliance and safety in order to develop more profitable products contribute to customer satisfaction and reduce the risk of liability This book analyzes the principles and methods of critical standards highlighting how they should be applied in the field It explores the philosophy of electrical product safety and analyzes the concepts of compliance and safety perception of risk failure normal and abnormal conditions and redundancy Professionals find valuable information on power sources product construction requirements markings compliance testing and manufacturing of safe electrical products

Dacie and Lewis Practical Haematology Barbara J. Bain, Imelda Bates, Mike A Laffan, S. 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

Medical Devices and In Vitro Diagnostics Christian Baumgartner,Johann Harer,Jörg Schröttner,2023-08-26 This updatable reference work gives a comprehensive overview of all relevant regulatory information and requirements for manufacturers and distributors around medical and in vitro diagnostic devices in Europe These individual requirements are presented in a practice oriented manner providing the reader with a concrete guide to implementation with main focus on the EU medical device regulations such as MDR 2017 745 and IVD R 2017 746 and the relevant standards such as the ISO 13485 ISO 14971 among others This book offers a good balance of expert knowledge empirical values and practice proven methods Not only it provides readers with a quick overview about the most important requirements in the medical device sector yet it shows concrete and proven ways in which these requirements can be implemented in practice It addresses medical manufacturing companies professionals in development production and quality assurance departments and technical and medical students who are preparing themselves for a professional career in the medical technology industries

Glocalized Solutions for Sustainability in Manufacturing Jürgen Hesselbach,Christoph Herrmann,2011-03-19 The 18th CIRP International Conference on Life Cycle Engineering LCE 2011 continues a long tradition of scientific meetings focusing on the exchange of industrial and academic knowledge and experiences in life cycle assessment product development sustainable manufacturing and end of life management The theme Glocalized Solutions for Sustainability in Manufacturing addresses the need for engineers to develop solutions which have the potential to address global challenges by providing products services and processes taking into account local capabilities and constraints to achieve an economically socially and environmentally sustainable society in a global perspective Glocalized Solutions for Sustainability in Manufacturing do not only involve products or services that are changed for a local market by simple substitution or the omitting of functions Products and services need to be addressed that ensure a high standard of living everywhere Resources required for manufacturing and use of such products are limited and not evenly distributed in the world Locally available resources local capabilities as well as local constraints have to be drivers for product and process innovations with respect to the entire life cycle The 18th CIRP International Conference on Life Cycle Engineering LCE 2011 serves as a platform for the discussion of the resulting challenges and the collaborative development of new scientific ideas

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 chapter exercises and solutions Electronics World ,2002 **Transmission, Distribution, and Renewable Energy Generation Power**

Equipment Bella H. Chudnovsky,2017-03-07 The revised edition presents extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made New sections in the second edition summarize the issues of the aging reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy solar wind tide and wave power When exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed In the modern world of green energy the equipment providing clean electrical energy needs to be properly maintained in order to prevent premature failure The book s purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment

Handbook of Valves and Actuators Brian Nesbitt,2007-08-02 Industries which use pumps seals and pipes will almost certainly also use valves in their systems Someone in each industry needs to be able to design purchase or maintain the right valve for the job in hand and that can amount to a lot of valves world wide Here is a single resource which is aimed at those designers and end users plus their engineering staff Brian Nesbitt is a well known consultant with a considerable publishing record A lifetime of experience backs up the huge amount of practical detail found in this volume Its international approach is no accident it will have world wide take up Ideal reference for industry Practical approach compared with competition Buyers guide included

InTech ,2001-07

Dacie y Lewis. Hematología práctica Barbara J. Bain,Imelda Bates,Mike A Laffan,2018-01-24 Durante m s de 65 a os este xito de ventas de los doctores Barbara Bain Imelda Bates y Mike A Laffan ha sido la referencia en todo el mundo en hematolog a de laboratorio Internacionalmente reconocida como la obra de referencia para los laboratorios de hematolog a este manual pr ctico describe todas las t cnicas utilizadas en la investigaci n de los pacientes con enfermedades sangu neas Analiza los principios de cada prueba las causas posibles de error el razonamiento para elegir un m todo u otro y la interpretaci n significado e importancia cl nica de los resultados Aborda las ltimas tecnolog as y procedimientos en el trabajo de laboratorio Incluye nueva informaci n sobre seguridad en el laboratorio proporcionando una gu a sobre los riesgos de cada procedimiento Hace hincapi en los detalles t cnicos de los m todos junto con una perspectiva cr tica sobre su interpretaci n y utilidad cl nica Ofrece directrices tiles a todos los niveles desde los centros primarios de salud donde solo se realizan unas pocas pruebas diagn sticas hasta centros especializados con tecnolog a sofisticada Proporciona rboles de decisi n que ayudan a enfrentarse a diversas situaciones cl nicas desde el punto de vista de los an lisis de laboratorio Incluye cap tulos sobre organizaci n direcci n y control de calidad del laboratorio Dispone de contenido adicional en ExpertConsult que permite b squedas en todo el texto y referencias en una gran variedad de dispositivos

Electrical Power Transmission and Distribution Bella H. Chudnovsky,2017-12-19 Electrical distribution and transmission systems are complex combinations of various conductive and insulating materials When exposed to

atmospheric corrosive gases contaminants extreme temperatures vibrations and other internal and external impacts these systems deteriorate and sooner or later their ability to function properly is destroyed Electrical Power Transmission and Distribution Aging and Life Extension Techniques offers practical guidance on ways to slow down the aging of these electrical systems improve their performance and extend their life Recognize the Signs of Aging in Equipment and Learn How to Slow It A reference manual for engineering maintenance and training personnel this book analyzes the factors that cause materials to deteriorate and explains what you can do to reduce the impact of these factors In one volume it brings together extensive information previously scattered among manufacturers documentation journal papers conference proceedings and general books on plating lubrication insulation and other areas Shows you how to identify the signs of equipment aging Helps you understand the causes of equipment deterioration Suggests practical techniques for protecting electrical apparatus from deterioration and damage Supplies information that can be used to develop manuals on proper maintenance procedures and choice of materials Provides numerous examples from industry This book combines research and engineering material with maintenance recommendations given in layperson s terms making it useful for readers from a range of backgrounds In particular it is a valuable resource for personnel responsible for the utilization operation and maintenance of electrical transmission and distribution equipment at power plants and industrial facilities

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