

Trends in European Standards Development and Diffusion to Industry

Mike Gilmore
Chairman CENELEC TC215
Project Leader ISO/IEC JTC1 SC25 WG3



Michael Charles Gilmore - Standards Activity





Managing Director e-Ready Building Limited



Member: JTC1 SC25 WG3 "Cabling Design"

ISO/IEC 11801-x series etc.

Leader: JTC1 SC25 WG3 "Cabling Implementation"

ISO/IEC 14763-2, ISO/IEC 30129, ISO/IEC Physical Network Security

Member: JTC1 SC39 "Data centres – Facilities and Key Performance Indicators

ISO/IEC 22237-x series, 30134-x series



Chairman: TC215 "Electrotechnical Aspects of Telecommunication Equipment"



Convenor: TC215 WG1: Cabling design

EN 50173-x series

Meeting Secretary: TC215 WG2: Cabling installation - QA and installation practices

EN 50174-x series, EN 50310

Member: TC215 WG3: Facilities and infrastructures (data centres)

EN 50600-x series

Member: CEN/CLC/ETSI CG Green Data Centres



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Past-Chairman: TCT/7: Telecommunications - Installation Requirements

Chairman: TCT/7/1: Cabling: Infrastructure design, planning and commissioning

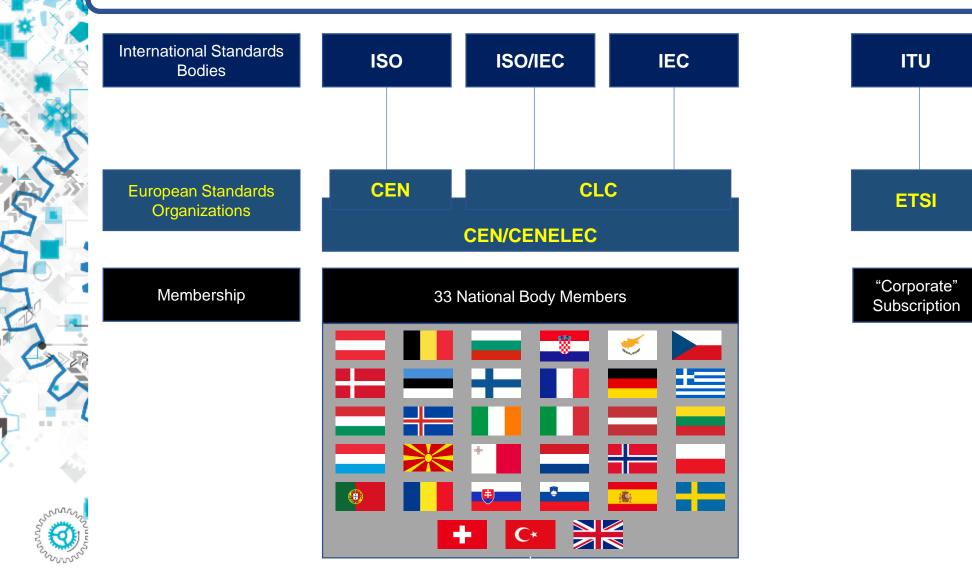
Meeting Secretary: TCT/7/2: Cabling; Installation and UK implementation Meeting Secretary: TCT/7/3: Facilities and infrastructures (data centres)







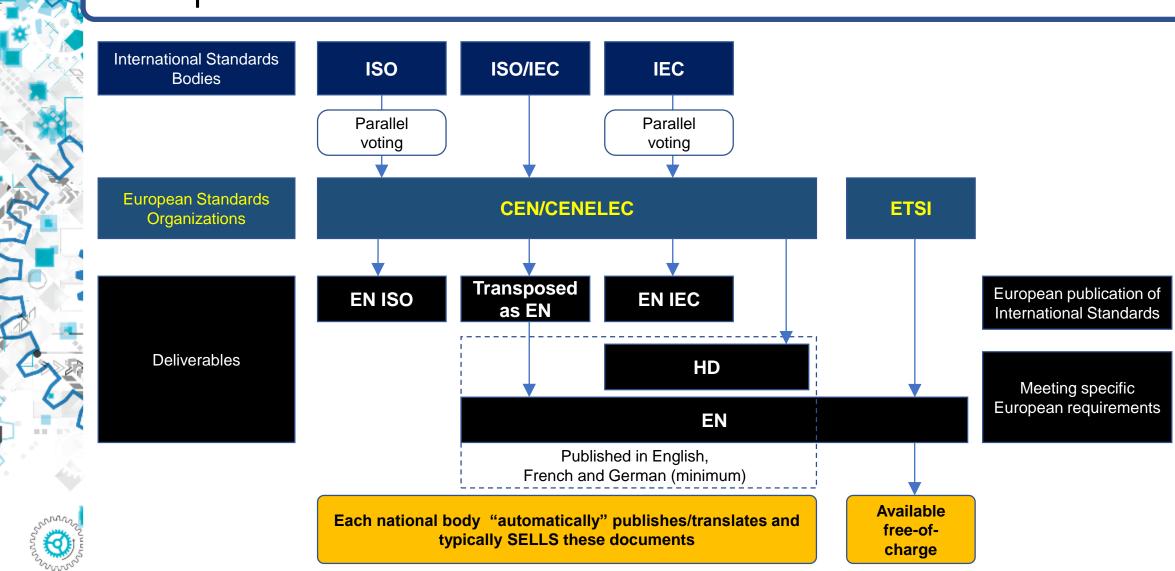
The International and European Arena



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European Standards





Types of Standards in Europe

Voluntary ENs

Used in contracts between supplier and customer

Harmonized Standard ENs

Used to support EU Directives or EU Regulations (listed in the Official Journal of the European Union)

EU Directives: transposed into national legislation e.g. EMC or LVD Directives

EU Regulations: automatically national legislation e.g. Construction Product Regulations

Harmonization Documents HDs

Used to create national standards in traditional sectors

IEC 60364-x series: Low-voltage electrical installations

Example

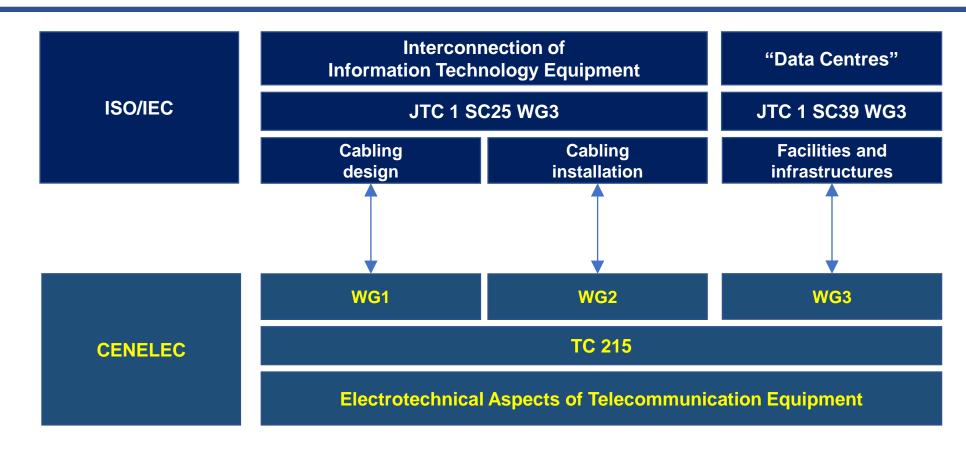
HD 60364-x series: Low-voltage electrical installations

BS 7671: Requirements for Electrical Installations





Premises Cabling Standards – ISO/IEC and EN



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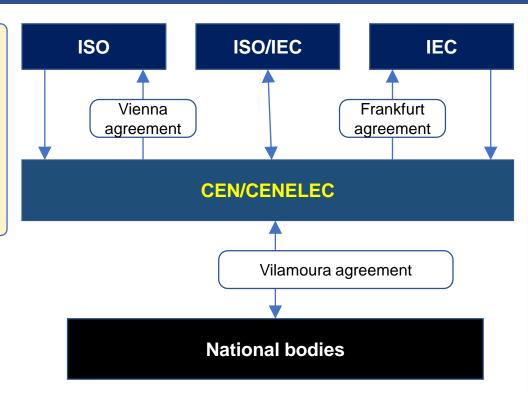


Trends in European Standards Development

Frankfurt agreement recognizes the primacy of IEC standardization.

Vienna agreement recognizes the primacy of ISO standardization.

IEC standards can even be used as "Harmonized Standards" to support EU legislation.



No Vienna/Frankfurt agreements exist between CEN/CLC and ISO/IEC.

There is good bi-directional flow of standardization between CLC TC215 and ISOIEC JTC1 SC25 and SC39.

Some CLC concepts are developed in ISO/IEC

Some ISO/IEC standards are transposed as ENs

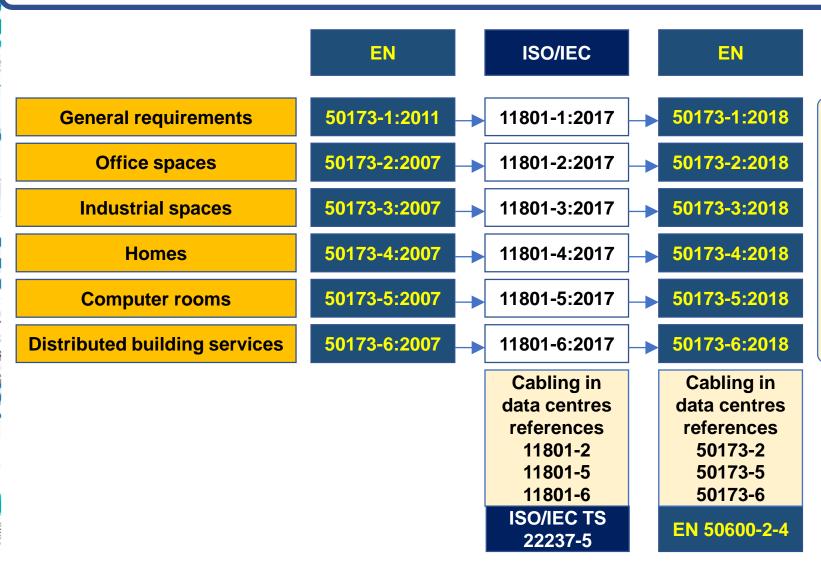
Some ISO/IEC standards are published directly as national standards provided they do not duplicate or conflict with an EN



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Generic Cabling Standards Detail

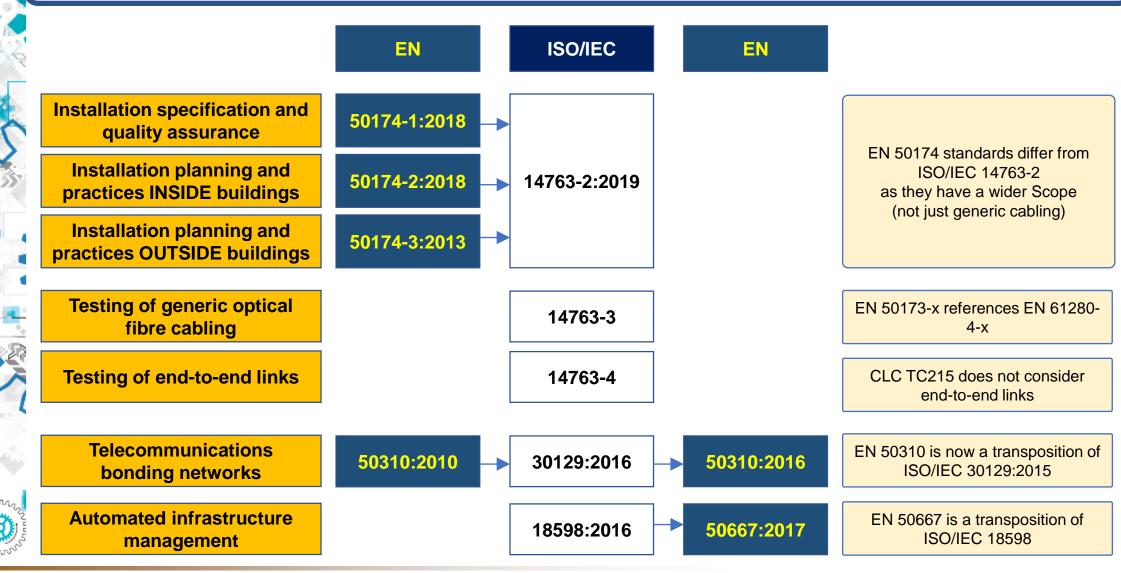


EN 50173-x differs from ISO/IEC 11801-x by referencing Harmonized Standards for cables under the Low Voltage Directive and **Construction Products Regulation**

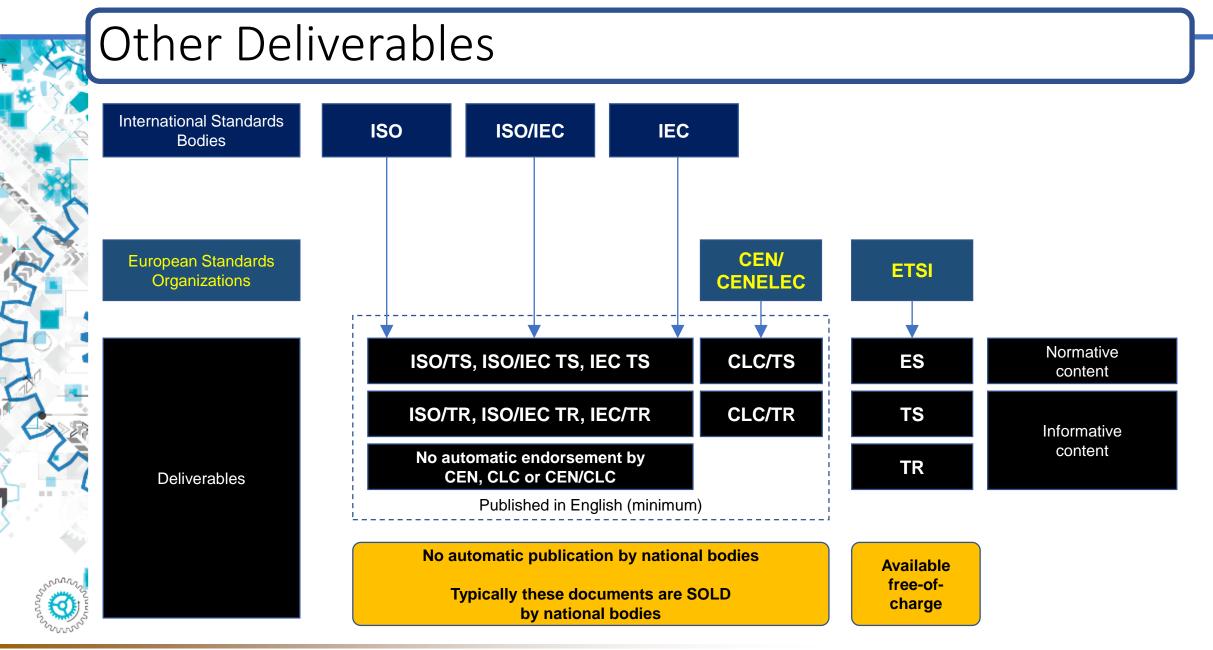
This leads to other minor technical differences



Cabling Implementation Standards









Other Deliverables - Examples

	CLC/TR	ISO/IEC TR	
Cabling guidelines in support of 10GBASE-T	50173-99-1	11801-9901	Guidance for balanced cabling40 GB/s
Implementation of BCT applications	50173-99-2	11801-9902	End-to-end link configurations
Home cabling infrastructures up to 50 m	50173-99-3	11801-9903	Matrix modelling of channels and links
		11801-9904	balanced cabling2.5/5 GBASE-T
		11801-9905	Guidance for balanced cabling25 GB/s
		11801-9906	1-pr cabling channels
		11801-9907	Direct attach cabling
		11801-9908	Very high data rate MMF applications
		11801-9909	balanced cabling25 GB/s 50 m
Remote powering	50174-99-1	29125	Remote powering
		29106	MICE
		14763-2-1	Administration

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Diffusion in CLC Countries



EN, HD, EN ISO, EN ISO/IEC or EN IEC

National implementations of European HDs

National standards

Endorsed ISO, ISO/IEC or IEC standards (where no duplication or conflict with an EN exists)



EU Directives and Regulations are founded on "Harmonized Standards"

Directives are applicable by legislation in each country Regulations replace legislation in all countries

Public and large project procurement requires the application of standards

Contracts are required to be listed in the Official Journal of the European Union



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National Application of Standards

Voluntary ENs

Used in contracts between supplier and customer

Harmonization Documents HDs

Used to create national standards in traditional sectors

APPLICATION DIFFERS IN EACH COUNTRY

Some standards are mandatory by law

Some standards are "tools of legislation"

Standards are legally enforceable if specified in contracts

Standards may be a legal foundation even if not specified in contracts

TRADE ASSOCIATIONS USED TO DIFFUSE INFORMATION TO THE INDUSTRY AND ITS CUSTOMERS

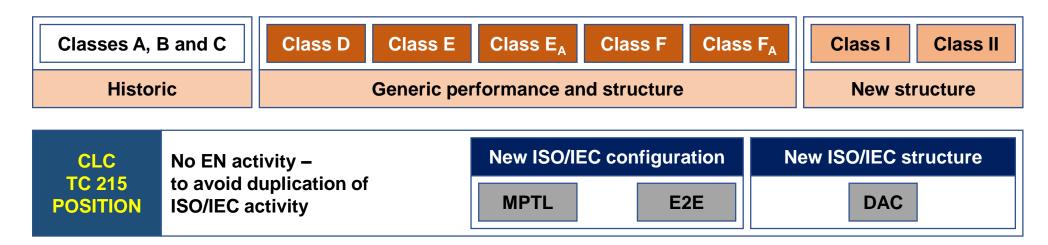


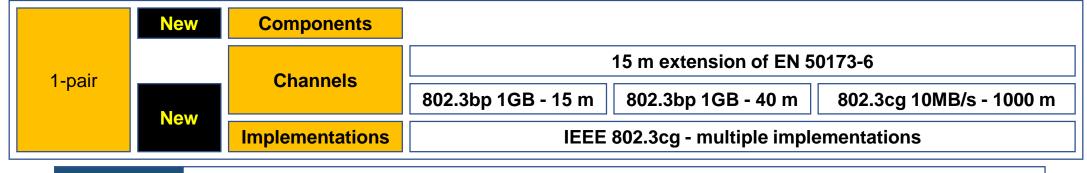






Personal Observations - The Future of Cabling



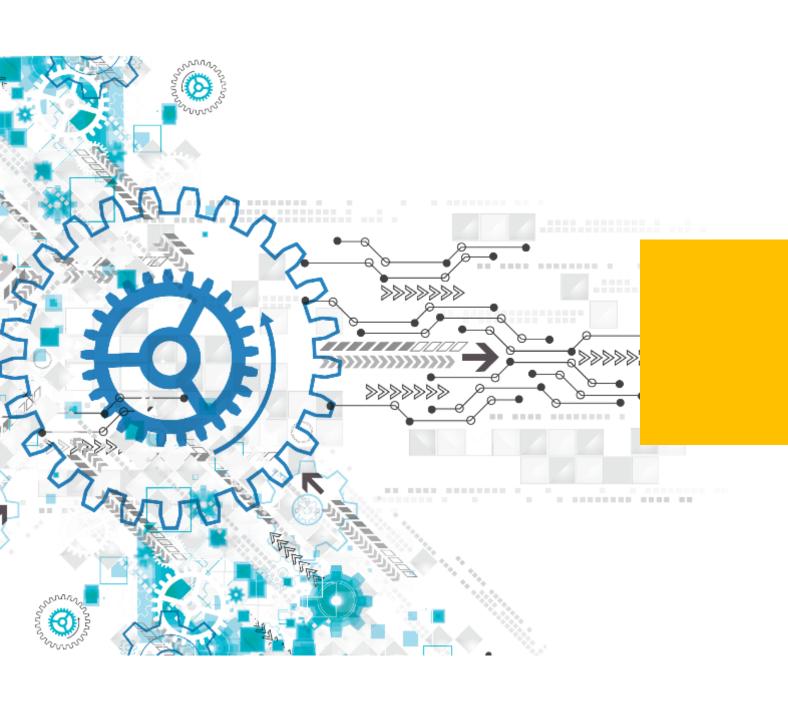


CLC TC 215 WG1 **DECISION**

EN 50XXX: Channels and components

EN 50YYY: Structures and reference implementations (focusing on the market segments that each implementation could be used for)

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Questions please!