

## Author

### Mike Gilmore

Senior Partner of The Cabling Partnership ([www.it-cabling.com](http://www.it-cabling.com))  
Managing Director of e-Ready Building Limited  
P.O.Box MT65, Leeds, United Kingdom. LS17 8YD.  
e-mail: [mike.gilmore@e-readybuilding.com](mailto:mike.gilmore@e-readybuilding.com)  
Telephone: +44 (0) 113 232 3721

See last page for biographical details



The IT cabling infrastructure  
division of  
e-Ready Building Limited

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## LATEST INSTALLATION STANDARDS HIT THE STREETS!

by

**Mike Gilmore, Technical Director of the FIA  
for Networking+ (October 2008)**

The final voting drafts of EN 50174-1:2008 and EN 50174-2:2008 are now in circulation - with deadlines in November 2008. These standards have major significance for the telecommunications cabling industry, covering "Installation Specification and quality assurance" and "Installation planning and practices inside buildings". Based on the format of BS 6701:2004, the new EN 50174-1 and EN 50174-2 standards not only introduce substantive changes to their requirements and recommendations but also present them in a more structured way. The latter makes it particularly easy to define the separate responsibilities for installers and their clients - independent of whether those clients are the end-users or their consultants. This article answers a few frequently asked questions concerning these standards.

**Why are these new standards so important?** One answer is their function - primarily they provide a tool for managing the interface between installers and their clients. Another answer is timing - as the standards will be ratified before the end of this year, it is incumbent on those clients to be referencing them, having understood their contents, NOW! Similarly installers will now be bidding for installation work for 2009 and need to be cognisant of the new standards - in readiness for undertaking those installations.

I frequently hear the cry "why make such a fuss - we know all about installations, who needs standards?" My simple answer to this is to recall the people, both clients and installers, who regularly contact asking "what do the standards say about ....". They are not asking me because of some innate curiosity but because something has gone wrong, they are in dispute and want to know what they should have done.

If those standards have been correctly listed in the contract then it is difficult to have too much sympathy. However, just because a standard is not explicitly referred to in a contract does not always offer a lifeline. In a court of law, judgement is often based on what a reasonable person would be expected to do - and this is normally based on the available standards. Our national standard for the "installation, operation and maintenance of telecommunications cabling and equipment" is BS 6701:2004 - which mandates compliance with the BS EN 50174 standards.

Installers also do not realise that the presence of other standards in a contract also mandates compliance. For example, any client wishing the cabling to be designed in accordance with any of the structured cabling standards in the BS EN 50173 series, has automatically stated that the installations shall conform to EN 50174. That being said, it should be remembered that the EN 50174 series applies to all telecommunications/IT cabling - not just structured cabling.

**How does one obtain a copy of the final voting drafts?** One way is to contact BSi and purchase a copy. An alternative is to be a member of a recognised trade association that is involved with their production via BSi. For example members of the FIA can go to their Standards Forum and download drafts of many standards free of charge.

**How close are the voting drafts to the final published documents?** The answer is "very". The only changes that can be made are technical corrections to a fault in the editing process or the correction of misleading text. A couple of technical corrections have already been identified, which is hardly surprising in such comprehensive documents, other may follow. A process is in place to make the required corrections. For example, FIA members are able to log their concerns via their Standards Forum.

If you would like to have your say on this topic and would like to join the FIA in order to do so, e-mail [jane@fiasec.demon.co.uk](mailto:jane@fiasec.demon.co.uk) or, alternatively, you can contact the FIA Secretariat in 01763 273039.

The Cabling Partnership  
P. O. Box MT 65, LEEDS, West Yorkshire, LS17 8YD, England  
Telephone: +44 (0) 113 232 3721

The Cabling Partnership is a division of e-Ready Building Limited  
Company Registration No. 4432595 Registered Office - Emery House, 192 Heaton Moor Road, Stockport, Cheshire, SK4 4DU.

## Biography

As the Technical and Standards Director of the UK Fibreoptic Industry Association, Mike is heavily involved in the development of training and competence standards for the fibre installation industry and sets down policy in this area. In addition he chairs the audit and arbitration committees for the FIA. His book "Fibre optic cabling; theory design and installation practice" published in 1991 remains a reference for both experts and entrants into this field.

Mike also initiated the establishment of the Telecommunications Infrastructure Advisory Board (TIA-B) along with the relevant directors of its other host organisations CMA and ECA-ITEC.

In the UK, Mike is Chairman of TCT7, the BSI Technical Committee responsible for the three panels on telecommunication cabling. He also chairs two of these panels (TCT7/-1 and TCT7/-3) and is Secretary of TCT7/-2. TCT7/-1 and TCT7/-2 act to assist development of European and international standards for the design and installation of telecommunications cabling respectively. TCT7/-2 also manages the implementation of these standards in the UK, where necessary producing supporting national standards.

Mike is involved in CENELEC TC215 - as Convenor of Working Group 1 and Secretary of Working Group 2. These committees are responsible for the development of an integrated series of standards for the design and installation of telecommunications cabling in a range of premises. In 2008 he led the ETSI STF362 on energy efficiency in broadband deployment resulting in the ETSI TS 105174 series documents, allowing Mike to assist in a new TC215 activity covering data centre facilities and infrastructures (monitored in the UK by BSI TCT7/-3).

At international level, Mike is Convenor of the Cabling Implementation Task Group (CITG) within ISO/IEC JTC1 SC25 WG3. This group is responsible for the strategic management of the international standards covering the specification, QA, installation, administration, operation, maintenance and repair of generic cabling. This work supports all the cabling design standards produced by ISO/IEC JTC1 SC25 WG3 including ISO/IEC 11801, ISO/IEC 15018, ISO/IEC 24764 and ISO/IEC 24702 for industrial premises produced by ISO/IEC JTC1 SC25 WG3 IPTG (also convened by Mike Gilmore).

Mike is a regular speaker at seminars and conferences in all five continents. He has provided the keynote address and opening presentation in many conferences in the UK, Germany and the Netherlands. His seminars, providing regular updates on the progression of cabling standards are particularly well attended and are operating in the UK and continental Europe.



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