Telecommunications Cabling: Guidance on Standards and Best Practice for Construction Projects

Mike Gilmore and Mani Manivannan

- Whether small-, medium- or large-scale construction, new build or upgrade; whether cabling has to last for the short-term or over many years, making the right decisions will affect the way an investment works and how the end users experience service delivery as a network or applications experience.
- This is the first book to map out the issues, highlight the risk areas and offer guidance to those in the industry, written by professionals who have first-hand experience of delivering telecommunications infrastructure projects over many years.
- It is a must-read for those conceiving, designing or procuring structured cabling for the built environment, including funding sponsors, project managers, IT and finance directors, architects, building services engineers, telecommunications consultants, other specialists, quantity surveyors and cabling installers.

‘This informative publication communicates effectively the challenges, complexities, and techniques used, in planning and implementation of modern telecommunications cabling infrastructures, to construction and telecommunications professionals, and key stakeholders. It is an excellent point of reference for professionals of all levels’.
Graham Kenyon, Project Manager & Principal Engineer, Ultra Electronics Airport Systems.

‘This book helps to relate the often dry world of standards to real life projects and buildings and will help a wide range of readers to better understand the relationship between the two. Written in an informative and guiding way this book is a must read for those involved in the industry or those who need to accommodate the ever changing world of telecommunications within their or their client’s facilities’.
Chris Frazer RCDD, Principal Consultant, PTS Consulting

Authors

Mani Manivannan, an Associate at Arup, is a managing consultant involved in the planning, design and delivery of ICT infrastructure for capital projects. He has over twenty years experience of leading successful and innovative solutions across many industry sectors in the fields of fixed and wireless telecommunications, data networks, multimedia systems and ICT cabling for new build and technology migration projects. With a professional career in consulting and advisory services he is committed to promoting best practice in the ICT industry. Mani has global Consulting experience in telecommunications and ICT projects, in North America, Europe, Middle East and Africa and Asia-Pacific.

Mike Gilmore is Managing Director of e-Ready Building Limited, providing a wide range of telecommunication infrastructure consultancy services, on an international basis, to both users and suppliers of infrastructures. Mike is a past Chairman of BSI TCT7, responsible for the three UK BSI Experts Panels on telecommunications cabling. Within European standardization, he is Convenor of TC215 WG1 and Secretary of WG2, which are responsible for an integrated series of standards for the design and installation of telecommunications cabling in a range of premises and has a voluntary role as the Technical and Standards Director of the Fibreoptic Industry Association.

Contents

Introduction; The need for structured cabling; The use of cabling standards in building design; Impact of convergence in IP networks and the built environment; Organising cabling projects; Mapping business requirements to design objectives; Design; Design strategies and methods; Identifying and managing technical risks; Identifying and managing administrative risks; Operational and management issues; Project close-out; Appendix A Standards review and Bibliography; Appendix B Telecommunications service overview.

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Eco-design means thinking about the full life cycle from the design to the end of the product lifecycle. Products can hang around for a long time, even after their useful life. The product lifecycle doesn’t end when the goods leave the shelf. Meeting demand for responsible products requires attention to the environmental aspects through its entire life cycle. Environmentally conscious design (ECD) is the goal of making products that don’t cause harm to the environment throughout their entire life cycle. This includes all parties involved in the design or production of the product, from the design to the end of the product lifecycle.

BS EN 62430 is intended for use by all those who design or develop electrical and electronic products. This includes all parties involved in the design or production of the product, from the design to the end of the product lifecycle. These requirements are not a separate design activity; rather, it is an integral part of the existing design process. BS EN 62430 specifies requirements that are applicable in particular circumstances, to certain hazardous environments but does not exclude additional requirements that are applicable to, or do not affect them. BS 6701-2010 specifies requirements that are applicable to, or do not affect them. BS 6701-2010 specifies requirements that are applicable to, or do not affect them. BS 6701 is a requirement of the Wiring Regulations (BS 7671) and is applicable in virtually all premises. In addition, the standard addresses cabling external to buildings and should be followed by anyone installing cabling.

For those in the telecommunications industry, responsible for installing, operating or the administration and maintenance of copper or optical fibre cabling or equipment. Conformance to specific aspects of BS 6701 is a requirement of the Wiring Regulations (BS 7671) and is applicable in virtually all premises. In addition, the standard addresses cabling external to buildings and should be followed by anyone installing cabling.

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