

Telecommunications equipment and telecommunications cabling — Specification for installation, operation and maintenance

ICS 33.020

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee TCT/7, Telecommunications — Installation requirements, upon which the following bodies were represented:

- British Cables Association
- British Telecommunications plc
- Communications Workers Union
- Electrical Contractors Association
- Electricity Association
- Fiberoptic Industry Association
- NORDX/CDT Ltd
- OFTEL
- Telecommunications Industry Association
- Thames Telecommunications Services Ltd
- Co-opted members

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Foreword

This British Standard has been prepared by Technical Committee TCT/7. It supersedes BS 6701:1994, which is withdrawn.

This new edition of BS 6701 represents a full revision of the text and has been published to support the BS EN 50174 series of standards. It should be read in conjunction with the BS EN 50174 series of standards and BIP 0007.

NOTE BIP 0007 provides guidance on the application of this British Standard. It is also an aid to interpreting the contents of the BS EN 50174 series of standards and the identification of responsibilities.

The principal changes from the 1994 edition are:

- a) a change from a code of practice, giving recommendations and advice, to a specification, containing requirements;
- b) the removal of all requirements that are now covered by the BS EN 50174 series.

This new edition of BS 6701 extends the requirements of the BS EN 50174 series of standards to the installation, operation, administration and maintenance of telecommunications equipment and telecommunications cabling, other than cabling within the scope of the BS EN 50174 series of standards. It also specifies requirements beyond the scope of the BS EN 50174 series of standards for telecommunications equipment and all types of telecommunications cabling.

Unless otherwise stated in this standard, voltages and currents are r.m.s. with a nominal frequency of 50 Hz.

It has been assumed in the preparation of this British Standard that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

WARNING. This British Standard calls for the use of procedures that can be injurious to health if adequate precautions are not taken. It refers only to technical suitability and does not absolve the user from legal obligations relating to health and safety at any stage.

The requirements contained within Clause 4 are primarily for the installers of telecommunications equipment and telecommunications cabling.

The requirements contained within Clause 5 are primarily for owners of premises housing telecommunications systems, who may delegate selected responsibilities to designers, specifiers, operators and maintainers of installed telecommunications equipment and telecommunications cabling.

Users of this British Standard should ensure that they are reading the clause appropriate to their responsibilities.

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This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 11 and a back cover.

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1 Scope

This British Standard specifies requirements for the installation, operation, administration and maintenance of telecommunications equipment and telecommunications cabling, other than cabling specified in BS EN 50174. It also specifies requirements beyond the scope of the BS EN 50174 series of standards for telecommunications equipment and all types of telecommunications cabling.

It does not cover those aspects of installation that are associated with the transmission of signals in free space between transmitters, receivers or their associated antenna systems (e.g. radio, microwave or satellite).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 5306-4, *Fire extinguishing installations and equipment on premises — Part 4: Specification for carbon dioxide systems*.

BS 5306-5.1, *Code of practice for fire extinguishing installations and equipment on premises — Part 5: Halon systems — Section 5.1: Specification for Halon 1301 total flooding systems*.

BS 5306-5.2, *Code of practice for fire extinguishing installations and equipment on premises — Part 5: Halon systems — Section 5.2: Halon 1211 total flooding systems*.

BS 5588-4, *Fire precautions in the design, construction and use of buildings — Part 4: Code of practice for smoke control using pressure differentials*.

BS 6133, *Code of practice for safe operation of lead-acid stationary cells and batteries*.

BS 6266, *Code of practice for fire protection for electronic data processing installations*.

BS 6651, *Code of practice for protection of structures against lightning*.

BS 6656, *Assessment of inadvertent ignition of flammable atmospheres by radio-frequency radiation — Guide*.

BS 6657, *Assessment of inadvertent initiation of bridge wire electro-explosive devices by radio-frequency radiation — Guide*.

BS 6746C, *Colour chart for insulation and sheath of electric cables*.

BS 7671, *Requirements for electrical installations — IEE Wiring Regulations — Sixteenth edition*.

BS EN 50014, *Electrical apparatus for potentially explosive atmospheres — General requirements*.

BS EN 50310, *Application of equipotential bonding and earthing in buildings with information technology equipment*.

BS EN 50174 (all parts), *Information technology — Cabling installation*.

BS EN 50281-1-2, *Electrical apparatus for use in the presence of combustible dust — Part 1: Electrical apparatus protected by enclosures — Section 1-2: Selection, installation and maintenance*.

BS EN 60079-14, *Electrical apparatus for explosive gas atmospheres — Part 14: Electrical installations in hazardous areas (other than mines)*.

BS EN 60825-2, *Safety of laser products — Part 2: Safety of optical fibre communication systems*.

BS EN 61340-5-1, *Electrostatics — Part 5: Protection of electronic devices from electrostatic phenomena — Section 5-1: General requirements*.

PD CLC/TR 50404, *Electrostatics — Code of practice for the avoidance of hazards due to static electricity*.

BIP 0007, *Telecommunication cabling and equipment installations — A guide to requirements and responsibilities*