



BSI Standards Publication

**Telecommunications
equipment and
telecommunications cabling
– Specification for
installation, operation and
maintenance**

Publishing and copyright information

The BSI copyright notice displayed in this document indicates when the document was last issued.

© The British Standards Institution 2016

Published by BSI Standards Limited 2016

ISBN 978 0 580 93144 4

ICS 33.020

The following BSI references relate to the work on this document:

Committee reference TCT/7/2

Draft for comment 16/30336625 DC

Publication history

First published as BS 6701-1 April 1986

Second edition, July 1990

First published as BS 6701 November 1994

Second edition, May 2004

Third edition, March 2010

Fourth (present) edition, July 2016

Amendments issued since publication

Date	Text affected
------	---------------

Contents

Foreword 1

- 1 Scope 3
- 2 Normative references 3
- 3 Terms, definitions and abbreviations 4
- 4 Requirements for owners of premises housing telecommunications systems 5
- 5 Requirements for installers of telecommunications equipment and telecommunications cabling 7

Annexes

- Annex A (informative) Remote powering 12

Bibliography 13

Summary of pages

This document comprises a front cover, an inside front cover, pages i to ii, pages 1 to 14, an inside back cover and a back cover.

Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 July 2016. It was prepared by Subcommittee TCT/7/2, *Telecommunications; Installation requirements: Cabling installation and UK implementation*, under the authority of Technical Committee TCT/7, *Telecommunications – Installation requirements*. A list of organizations represented on these committees can be obtained on request to their secretary.

Supersession

This British Standard supersedes BS 6701:2010, which is withdrawn.

Information about this document

This is a full revision of BS 6701 and has been published to support BS EN 50174-1:2009+A2:2014, BS EN 50174-2:2009+A2:2014 and BS EN 50174-3:2013 which contain text that was previously in BS 6701:2010. It should be read in conjunction with the BS EN 50174 series of standards. It also contains information regarding the use of telecommunications cabling for the powering of telecommunications and other equipment.

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

Hazard warnings

WARNING. This British Standard calls for the use of substances and/or 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.

Use of this document

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.

The requirements contained within Clause 4 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.

The requirements contained within Clause 5 are primarily for the installers of telecommunications equipment and telecommunications cabling.

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

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

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 cannot confer immunity from legal obligations.

In particular, attention is drawn to the following statutory regulations.

Electromagnetic Compatibility Regulations 2006 [1]

Electrical Equipment (Safety) Regulations 1994 [2]

Provision and Use of Work Equipment Regulations 1998 [3]

Work at Height Regulations 2005, as amended [4]

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.

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 (all parts), *Code of practice for fire extinguishing installations and equipment on premises*

BS 7671:2008+A3:2015, *Requirements for electrical installations – IET Wiring Regulations – Seventeenth edition*

BS EN 50174-1:2009+A2:2014, *Information technology – Cabling installation – Part 1: Installation specification and quality assurance*

BS EN 50174-2:2009+A2:2014, *Information technology – Cabling installation – Part 2: Installation planning and practices inside buildings*

BS EN 50174-3, *Information technology – Cabling installation – Part 3: Installation planning and practices outside buildings*

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

BS EN 60079-14, *Explosive atmospheres – Part 14: Electrical installations design, selection and erection*

BS EN 60079-17, *Explosive atmospheres – Part 17: Electrical installations inspection and maintenance*

BS EN 60446, *Basic and safety principles for man-machine interface, marking and identification – Identification of conductors by colours or alphanumerics*

BS EN 60825-2, *Safety of laser products – Part 2: Safety of optical fibre communication systems (OFCS)*

BS EN 61241-14, *Electrical apparatus for use in the presence of combustible dust – Part 14: Selection and installation*

BS EN 61241-17, *Electrical apparatus for use in the presence of combustible dust – Part 17: Inspection and maintenance of electrical installations in hazardous areas (other than mines)*

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

HD 60364-5-54:2007, *Low voltage electrical installations – Part 5-54: Selection and erection of electrical equipment – Earthing arrangement, protective conductors and protective bonding conductors*

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