

Generic specification for

Symmetric pair/quad and multicore cables for digital communication —

(Implementation of
CENELEC HD 608 S1)

UDC 621.315.34:681.327.8

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- British Cable Makers Confederation
- British Telecommunications plc
- EEA (the Association of Electronics, Telecommunications and Business Equipment Industries)
- National Supervising Inspectorate
- Society of British Aerospace Companies Limited
- Telecommunications Cables Group of Bcmc

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National foreword

This British Standard has been prepared under the direction of the Electronic Components Standards Policy Committee. It is the implementation of the European Committee for Electrotechnical Standardization (CENELEC) Harmonization Document HD 608.S1:1992 *Generic specification for symmetric pair/quad and multicore cables for digital communication*.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the HD title page, pages 2 to 16, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

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English version

Generic specification for symmetric pair/quad and multicore cables for digital communication

Spécification générique pour câbles multiconducteurs à paires symétriques et quartes pour transmission numérique

Fachgrundspezifikation für mehradrige und symmetrische paar- /viererverseilte Kabel für digitale Nachrichtenübertragung

This Harmonization Document was approved by CENELEC on 1992-03-24. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

Following a decision taken by CENELEC BTTF 61-7 at their meeting in Brussels on 1991-04-17, this document was submitted to the CENELEC Unique Acceptance Procedure (UAP) in July 1991 for acceptance as a Harmonization Document.

The text of the draft was approved by CENELEC as HD 608 S1 on 24 March 1992.

The following dates were fixed:

- latest date of announcement of the HD at national level (doa) 1992-09-01
- latest date of publication of an identical national standard (dop) 1993-03-01
- latest date of withdrawal of conflicting national standards (dow) 1993-03-01

For products which have complied with the relevant national standard before 1993-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1998-03-01.

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Section 1. Guide to use

1.1 Scope

This Harmonization Document specifies requirements for indoor cables of multicore, pair and quad construction used in digital communication systems such as Integrated Services Digital Network (ISDN), local area networks and data communication systems.

1.2 Introduction

The cables used for customer premises wiring are classified in the study of generic cabling for information technology being produced by ISO/IEC JTC1/SC25/WG3. Parameters to be taken into consideration prior to the selection of a suitable cable are as follows:

- a) transmission method;
- b) cabling topology.

1.3 Installation considerations

The cables have to be designed to meet the installation conditions encountered for each area, see Figure 1, as follows:

- a) *Equipment cables*. The cables shall be suitable for use between work stations and peripheral equipment (e.g. printer). The cables shall be flexible and at the same time meet the required transmission characteristics for connection to digital equipment.

- b) *Work area cables*. The cables shall be suitable for use between the work station and the communication outlets. They shall be flexible, lightweight and of small diameter and at the same time meet the required transmission and mechanical characteristics.

- c) *Horizontal floor wiring cables*. The cables shall be suitable for use between the work area communication outlet and the communication closet. The cables may be installed in ducts, trunking and in floor and ceiling cavities. The cables shall have acceptable performance under fire hazard conditions.

- d) *Riser cables*. The cables shall be suitable for installation vertically between floors and therefore are designed to have adequate mechanical strength and acceptable performance under fire hazard conditions.

- e) *Campus cables*. These cables are used to interconnect buildings and shall be suitable for outdoor installation. The cables shall be sheathed and protected in accordance with IEC Publication 708-1.

NOTE The work area and equipment cables normally require suitable connectors at one or both ends. The type of connectors do not form part of this specification.