

Mineral insulated cables with a rated voltage not exceeding 750 V —

Part 1: Cables —

(Implementation of
CENELEC HD 586.1 S1:1994)

UDC 621.315.2:621.315.613:621.3.027.26

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee GEL/20, Electric cables, upon which the following bodies were represented:

- Association of Consulting Engineers
- Association of Manufacturers of Domestic Electrical Appliances
- BEAMA Electrical Cable and Conductor Accessory Manufacturers' Association
- British Approvals Service for Cables
- British Cable Makers Confederation
- British Plastics Federation
- British Steel Industry
- Department of Trade and Industry (Consumer Safety Unit, CA Division)
- Electricity Association
- Engineering Equipment and Materials Users' Association
- Institution of Electrical Engineers
- London Regional Transport

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- Association of Manufacturers Allied to the Electrical and Electronic Industry (BEAMA Ltd.)
- British Non-ferrous Metals Federation
- British Steel plc
- Chartered Institution of Building Services Engineers
- ERA Technology Ltd.
- Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
- Engineering Industries Association
- GAMBICA (BEAMA Ltd.)
- Institution of Incorporated Executive Engineers
- Lighting Industry Federation Ltd.
- London Underground Ltd.
- National Association of Lift Makers
- Portable Electric Tool Manufacturers' Association
- Transmission and Distribution Association (BEAMA Ltd.)

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 August 1995

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Amendments issued since publication

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National foreword

This Part of BS 6207 has been prepared by Technical Committee GEL/20. It implements Harmonization Document HD 586.1 S1:1994 published by the European Committee for Electrotechnical Standardization (CENELEC).

This Part of BS 6207 specifies mineral insulated general wiring cables with copper sheath and copper conductors with rated voltages not exceeding 750 V.

Part 2 of BS 6207 specifies terminations for use with the cables specified in Part 1.

National annex NA interprets the requirements of HD 21.1 S2 that are applicable to cables specified by this British Standard. These requirements relate to clause 9.

The foreword of HD 586.1 makes reference to the “date of withdrawal” (dow) of the relevant national standard. In this case, the relevant British Standard is BS 6207:1991, which is withdrawn.

Certification. Attention is drawn to the certification services (see inside back cover) of the British Approvals Service for Cables (BASEC)¹⁾. These services include licensing manufacturers to use BASEC certification trade marks as independent assurance that cables or cords have been designed and manufactured to appropriate British Standards. BASEC is a subscriber to an agreement in CENELEC whereby cables or cords coming within Harmonized Code Designations and manufactured under a BASEC licence can carry marks acceptable to other signatory countries (CENELEC “Common Marking”).

Cross-references

Publication referred to	Corresponding British Standard
HD 405.1 S1 (IEC 332-1:1979)	BS 4066 <i>Tests on electric cables under fire conditions</i> Part 1:1980 <i>Method of test on a single vertical insulated wire or cable</i> BS 6469 <i>Insulating and sheathing materials of electrical cables</i>
HD 505.1.4 S1:1988 (IEC 811-1-4:1985)	Part 1 <i>Methods of test for general application</i> Section 1.4:1992 <i>Tests at low temperature</i>
HD 505.3.1 S1:1988 (IEC 811-3-1:1985)	Part 3 <i>Methods of test specific to PVC compounds</i> Section 3.1:1992 <i>Pressure test at high temperature. Tests for resistance to cracking</i>
HD 602 S1:1992 (IEC 745-2:1991)	BS 6425 <i>Test on gases evolved during the combustion of materials from cables</i> Part 2:1993 <i>Determination of degree of acidity (corrosivity) of gases by measuring pH and conductivity</i>
HD 606.2 S1:1992 (IEC 1034-2:1991)	BS 7622 <i>Measurement of smoke density of electric cables burning under defined conditions</i> Part 2:1993 <i>Test procedure and requirements</i>

¹⁾ British Approvals Service for Cables, Silbury Court, 360 Silbury Boulevard, Milton Keynes MK9 2AF.

For references to HD 21.1 S2 see National annex NA.

A British Standard does not purport to include all the necessary provisions of a contract. User of British Standards are responsible for their 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 to iv, the HD title page, pages 2 to 18, 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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Descriptors: Electric installation, insulated conductor, insulated cable, mineral material, specification, dimension, test, marking

English version

Mineral insulated cables with a rated voltage not exceeding 750 V Part 1: Cables

Câbles à isolant minéral, de tension assignée
ne dépassant pas 750 V
Partie 1: Câbles

Mineralisierte Leitungen mit einer
Nennspannung bis 750 V
Teil 1: Leitungen

This Harmonization Document was approved by CENELEC on 1993-09-22. 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 such 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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

This Harmonization Document was prepared by CENELEC Technical Committee TC/20, Electric Cables.

The text of the draft was submitted to the CENELEC Unique Acceptance Procedure (UAP) in January 1993 and was approved by CENELEC as HD 586.1 S1 on 22 September 1993.

The following dates were fixed:

- latest date of announcement of the HD at national level (doa) 1994-02-01
- latest date of publication of a harmonized national standard (dop) 1994-08-01
- latest date of withdrawal of conflicting national standards (dow) 1994-08-01

For products which have complied with the relevant national standard before 1994-08-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1995-08-01.

NOTE Requirements for terminations for use with the cables described in this Part 1 of HD 586 are given in Part 2: *Terminations*.

Normative references

References are made, in this HD 586.1 to other Harmonization Documents and international standards as follows:

- HD 21, *Polyvinyl chloride insulated cables of voltages up to and including 450/750 V*.
- HD 405.1, *Tests on electric cables under fire conditions. Part 1: Test on a single vertical cable*. (Endorsing IEC 332-1)
- HD 505, *Common test methods for insulating and sheathing materials of electric cables*. (Endorsing IEC 811)
- HD 602, *Test on gases evolved during the combustion of materials from cables: Determination of degree of acidity (corrosivity) of gases by measuring pH and conductivity*. (Endorsing IEC 754-2)
- HD 606, *Measurement of smoke density of electric cables burning under defined conditions*. (Endorsing IEC 1034)
- IEC 331, *Fire resisting characteristics of electric cables*.

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