

Measurement of smoke density of electric cables burning under defined conditions —

Part 2: Test procedure and requirements —

(Implementation of CENELEC HD 606.2 S1)

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Cables and Insulation Standards Policy Committee (CIL/-) to Technical Committee CIL/20, upon which the following bodies were represented:

- Aluminium Federation
- Association of Consulting Engineers
- Association of Manufacturers of Domestic Electrical Appliances
- British Approvals Service for Cables
- British Cable Makers' Confederation (BCMC)
- British Plastics Federation
- British Steel Industry
- Department of the Environment (Property Services Agency)
- 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:

- British Railways Board
- British Rubber Manufacturers' Association Ltd.
- British Telecommunications plc
- ERA Technology Ltd.
- GAMBICA (BEAMA Ltd.)
- Institution of Incorporated Executive Engineers
- London Underground Ltd.
- Queen Mary and Westfield College
- Telecommunications Cables Group of BCMC
- Warrington Fire Research Centre

This British Standard, having been prepared under the direction of the Cables and Insulation Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 February 1993

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The following BSI references relate to the work on this standard:
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National foreword

This Part of BS 7622 has been prepared under the direction of the Cables and Insulation Standards Policy Committee. It implements HD 606.2 S1:1992, which is based on IEC 1034-2:1991, but with additional coverage for cables between 2 mm and 10 mm diameter. Additional guidance is given in National annex NC on the sequence of burning for the cable test in clause 5.

The requirements expressed in this Part in respect of smoke density — to be implemented in the absence of any given in the specific cable specification — are based upon transmittance levels quoted in the IEC specification. The measurement may also be compressed in terms of absorbance per unit cable tested, by further computation of the transmittance value. A method of calculation is given in National annex ND.

Part 1 of BS 7622 provides details of the test apparatus, including a verification procedure, to be employed for the measurement of the smoke density of the products of combustion of electric cables burned under defined conditions.

Part 2 of BS 7622 provides details of the test procedure to be employed for the measurement of the smoke density of the products of combustion of electric cables burned under defined conditions using the test apparatus given in Part 1.

The publication of this British Standard will allow the method given as an appendix to a number of existing British Standards (BS 5055, BS 6207, BS 6724, BS 6883 and BS 7211) to be eventually withdrawn. Users should note however that this new standard introduces some differences against the previous UK practice.

A British Standard does not purport to include all the necessary provisions of a contract. Users 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

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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.