

Specification for

# PVC insulation and sheath of electric cables

# 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 Electric Cables
- British Cable Makers Confederation
- British Plastics Federation
- British Railways Board
- British Steel Industry
- British Telecommunications plc
- Department of the Environment (Property Services Agency)
- Department of Trade and Industry (Consumer Safety Unit, CA Division)
- ERA Technology Ltd.
- Electricity Supply Industry in England and Wales
- 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 Supervisory and Executive Engineers
- British Rubber Manufacturers' Association
- GAMBICA (BEAMA Ltd.)
- Queen Mary College Industrial Research

This British Standard, having been prepared under the direction of the Cables and Insulation Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 31 August 1990

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The following BSI references relate to the work on this standard:  
Committee reference CIL/20  
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## Amendments issued since publication

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# Contents

|                                                                                 | Page               |
|---------------------------------------------------------------------------------|--------------------|
| Committees responsible                                                          | Inside front cover |
| Foreword                                                                        | ii                 |
| 1 Scope                                                                         | 1                  |
| 2 Definitions                                                                   | 1                  |
| 3 Composition                                                                   | 1                  |
| 4 Colours                                                                       | 1                  |
| 5 Test requirements for physical and electrical properties                      | 1                  |
| Appendix A Method of test for insulation resistance constant ( <i>K</i> value)  | 5                  |
| Appendix B Method of test for colour fastness to daylight                       | 5                  |
| Appendix C Method of test for bleeding and blooming of colour                   | 5                  |
| Table 1 — Types of insulation and sheath                                        | 1                  |
| Table 2 — Test requirements for compounds designated according to HD 21         | 2                  |
| Table 3 — Test requirements for compounds designated according to this standard | 3                  |
| Publications referred to                                                        | Inside back cover  |

# Foreword

This new edition of BS 6746 has been prepared under the direction of the Cables and Insulation Standards Policy Committee and it supersedes BS 6746:1984, which is withdrawn.

This edition introduces technical changes but it does not reflect a full review or revision of the standard, which will be undertaken in due course.

This standard should be read in conjunction with BS 6469 which describes the test methods common to various electric cable materials and is referred to in British Standards for those materials.

The second edition of this standard was prepared to take account of CENELEC<sup>1)</sup> Harmonization Document HD 21. The third edition agreed with HD 21.S2 dated October 1982.

This edition incorporates amendments 1 and 2 (published September 1986 and February 1990) to BS 6746:1984 and introduces compound TI 4 which appears in amendment No. 4 (dated January 1989) to HD 21.1 S2. Differences in the text between this edition and BS 6746:1984 are indicated by a line in the margin.

Amendment No. 1 incorporates PVC type TI 3 compound to align with Amendment No. 2 to HD 21.1 S2.

The requirements for the various types of compound have been drafted such that compliance with them can be checked by testing samples taken from finished cables.

Attention is drawn to the certification services of the British Approvals Service for Electric Cables (BASEC)<sup>2)</sup>. 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").

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

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, 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.

<sup>1)</sup> European Committee for Electrotechnical Standardization.

<sup>2)</sup> British Approvals Service for Electric Cables, Silbury Court, 360 Silbury Boulevard, Milton Keynes, Buckinghamshire MK9 2AF.