

Instrumentation cables —

Part 2: Specification for PVC insulated cables

UDC 621.315.2:621.315.6:678.743.22

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Electronic Components Standards Committee (ECL/-) to Technical Committee ECL/6, upon which the following bodies were represented:

- British Plastics Federation
- British Telecommunications plc
- Crown Agents for Oversea Governments and Administrations
- Electric Cable Makers Confederation
- Home Telephone Cable Makers Association (1960)
- Ministry of Defence
- Society of British Aerospace Companies Ltd

The following bodies were represented in the drafting of the standard, through sub-committees and panels:

- British Broadcasting Corporation
- British Railways Board
- Electronic Components Industry Federation
- Switchboard Cables Association (1960)
- Telecommunication Engineering and Manufacturing Association (TEMA)

This British Standard, having been prepared under the direction of the Electronic Components Standards Committee, was published under the authority of the Board of BSI and comes into effect on 28 November 1986

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First published January 1978
First revision November 1986.

The following BSI references relate to the work on this standard:
Committee reference ECL/6
Draft for comment 85/27132 DC

ISBN 0 580 15359 2

Amendments issued since publication

Amd. No.	Date of issue	Comments
7618	July 1993	Indicated by a sideline in the margin.

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Foreword

BS 5308 has been prepared under the direction of the Electronic Components Standards Committee to cover the requirements for a range of instrument signal cables.

This Part of BS 5308 is a revision of BS 5308-2:1978, which is withdrawn, and updates the standard in line with current technology. Attention is drawn to the increased operating voltage given in the scope.

These cables are not intended for use in coal mining (Group I) applications but may be suitable for Group II intrinsically safe systems (but see warning note).

This Part of BS 5308 covers PVC insulated cables, used mainly by the chemical and petrochemical industries. Part 1 covers polyethylene insulated cables, used mainly by the petroleum industry.

Notes on the installation of thermoplastic cables are given in appendix C.

Further information relating to intrinsic safety may be obtained from the following British Standards:

BS 5345, *Code of practice for the selection, installation and maintenance of electrical apparatus for use in potentially explosive atmospheres (other than mining applications or explosive processing and manufacture)*.

BS 5345-1:1976, *Basic requirements for all Parts of the code*.

BS 5345-4:1983, *Installation and maintenance requirements for electrical apparatus with type of protection "i". Intrinsically safe electrical apparatus and systems*.

BS 5501, *Electrical apparatus for potentially explosive atmospheres*.

BS 5501-1:1977, *General requirements*.

BS 5501-7:1977, *Intrinsic safety "i"*.

BS 5501-9:1982, *Specification for intrinsically safe electrical systems "i"*.

WARNING NOTE. Cables used when installing an intrinsically safe system are required to conform to any relevant requirement in the certification documents, either for the system or for the intrinsically safe and associated apparatus forming parts of the system. Cables should also be suitable for the environment in which they are to be used (see, for example, **19.3** of BS 5345-1:1989). *This means that for some applications the cables specified in this British Standard may not be suitable.* The use in intrinsically safe systems of cables not covered by this standard is not precluded.

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 to iv, pages 1 to 10, 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.

