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Electrical systems in office furniture and office screens — Specification

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee FW/3, Office furniture, upon which the following bodies were represented:

- British Coatings Federation
- British Contract Furnishings Association
- British Educational Suppliers Association
- British Measurement and Testing Association
- British Office Systems and Stationery Federation
- Castor Manufacturers (UK) Association
- Electrical Installation Equipment Manufacturer’s Association (BEAMA Ltd)
- Federation of Electronics Industry
- Furniture Industry Research Association
- Interllect
- SATRA Technology Centre

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Foreword

This British Standard has been prepared by Technical committee FW/3, Office furniture. It supersedes BS 6396:1995, which is withdrawn. This new edition introduces technical changes and is a full revision of the 1995 version of the standard.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

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1 Scope

This British Standard specifies requirements for the safe provision and assembly of electrical power, data and telecommunications distribution systems in office furniture and office screens. Requirements are specified for furniture for general use and for furniture for use with specific equipment, parts of which may be built in during manufacture.

Appropriate tests are described for the installed power distribution system in the furniture. The standard applies to single-phase electrical power distribution systems operating at rated voltages up to 250 V a.c. that are connected to the fixed wiring of the permanent installation of the building by a 13 A fused plug and socket outlet arrangement complying with BS 1363. The standard makes provision for the routing of cables through the furniture.

This standard does not apply to electrical appliances used with or within an article of office furniture, for which appropriate standards are available. The standard does not apply to power distribution systems that are permanently connected to the building installation.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of this British Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. For undated references, the latest edition of the publication referred to applies.

BS 1362, *Specification for general purpose fuse links for domestic and similar purposes (primarily for use in plugs).*

BS 1363-1, *Specification for 13 A fused plugs and switched and unswitched socket-outlets — Part 1: Specification for rewirable and non-rewirable 13 A fused plugs.*

BS 1363-2, *Specification for 13 A fused plugs and switched and unswitched socket-outlets — Part 2: Specification for 13 A switched and un-switched socket-outlets.*

BS 3676-1, *Switches for household and similar fixed electrical installations — Part 1: General requirements.*

BS 3955, *Specification for electrical controls for household and similar general purposes.*

BS 4491-1, *Appliance couplers for household and similar general purposes — Part 1: Specification of general requirements.*

BS 4714:1980, *Method for laboratory determination of density or relative density of crude petroleum and liquid petroleum products (hydrometer method).*

BS 4727, *Glossary of electrotechnical, power, telecommunication, electronics, lighting and colour terms.*

BS 5467, *Specification for 600/1000 V and 1900/3300 V armoured electric cables having thermosetting insulation.*

BS 5733, *Specification for general requirements for electrical accessories.*

BS 6004, *Electric cables. PVC insulated, non-armoured cables for voltages up to and including 450/750 V, for electric power, lighting and internal wiring.*

BS 6346, *Specification for 600/1000 V and 1900/3300 V armoured electric cables having PVC insulation.*

BS 6500, *Electric cables — Flexible cords rated up to 300/500 V, for use with appliances and equipment intended for domestic, office and similar environments.*

BS 6724, *Specification for 600/1000 V and 1900/3300 V armoured electric cables having thermosetting insulation and low emission of smoke and corrosive gases when affected by fire.*

BS 7211, *Specification for thermosetting insulated cables (non-armoured) for electric power and lighting with low emission of smoke and corrosive gases when affected by fire.*

BS 7671, *Requirements for electrical installations — IEE Wiring Regulations — Sixteenth edition.*

BS 7919, *Insulated flexible cords and cables for industrial applications.*

BS EN 60127-2, *Miniature fuses — Part 2: Specification for cartridge fuse links.*

BS EN 60598-1, *Luminaires — Part 1: General requirements and tests.*