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Australian Assembly of Fire Officers
Australian Electrical and Electronic Manufacturers Association
Australian Uniform Building Regulations Co-ordinating Council
Building Owners and Managers Association of Australia
Commonwealth Fire Board
Confederation of Australian Industry
CSIRO, Division of Building Construction and Engineering
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PREFACE

This Standard was prepared by the Standards Australia Committee on Special Wiring Systems to provide a system of classification and testing of the degree of protection inherent in a wiring system with regard to fire and mechanical damage.

The need to maintain circuit integrity in buildings, oil rigs, ships, and other structures under fire conditions is most important for wiring systems associated with fire fighting, evacuation, and other safety functions.

While there are some Standards available for fire testing of cables (e.g. IEC 331, *Fire resisting characteristics of electric cables,* IEC 332, *Tests on electric cables under fire conditions,* and BS 6387, *Specification for performance requirements for cables to maintain circuit integrity under fire conditions),* it was considered that these did not form an adequate basis for a system of classification. For this reason AS 1530.4 has been used as the basis of fire rating of wiring systems in this Standard. Testing in a horizontal furnace has been prescribed since it was considered that this represents the most onerous condition.

This Standard provides a system of classification of the degree of protection inherent in Wiring Systems against accidental mechanical damage. It does not consider protection against deliberate tampering. The levels of mechanical protection are specified in terms of impact energies and cutting forces.

Statements expressed in mandatory terms in Notes to Tables and Figures are requirements of this Standard.

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