

AS/NZS 1660.5.1:2005

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Australian/New Zealand Standard™

**Test methods for electric cables, cords
and conductors**

**Method 5.1: Fire tests—Test for vertical
flame spread of vertically-mounted
bunched wires or cables**

AS/NZS 1660.5.1:2005

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-003, Electric Wires and Cables. It was approved on behalf of the Council of Standards Australia on 25 October 2004 and on behalf of the Council of Standards New Zealand on 15 October 2004.

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Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Canterbury Manufacturers Association New Zealand
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Australian/New Zealand Standard™

Test methods for electric cables, cords and conductors

Method 5.1: Fire tests—Test for vertical flame spread of vertically-mounted bunched wires or cables

Originated in Australia as SAA Int 88001—1988.
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-003, Electric Wires and Cables to supersede AS/NZS 1660.5.1:1998, *Test methods for electric cables, cords and conductors*, Method 5.1: *Fire tests—Tests on bunched cables*. It is one of a set of fire tests for electric cables included in the AS/NZS 1660 series.

The objective of this Standard is to set out a method that will define the ability of bunched cables to restrain flame propagation in defined conditions.

This Standard adopts the content of IEC 60332-3, *Tests on electric cables under fire conditions*, Part 3: *Test for vertical flame spread of vertically-mounted bunched wires or cables* (all Parts). While this Standard is technically equivalent to the IEC Standards, it has been structured to include all six Parts of IEC 60332-3 in the one Australian/New Zealand Standard. This has been necessary due to the fact that AS/NZS 1660.5.1 is referenced as such in a number of other Standards. It was not possible to accommodate a further division within the Standards numbering system adopted by Standards Australia.

The technical content of AS/NZS 1660.5.1 and IEC 60332-3 is aligned as follows:

IEC 60332-3 Part	AS/NZS 1660.5.1 Section
10: Apparatus	2
21: Category AF/R	3
22: Category A	4
23: Category B	5
24: Category C	6
25: Category D	7

This Standard differs from the 1998 version in that it has adopted the technical contents of IEC 60332.3 (all Parts).

As this Standard adopts the content of an International Standard a full point should be substituted for a comma when referring to a decimal marker in Figure 4 and Figure 6.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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