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Australian/New Zealand Standard™

Tests on electric and optical fibre cables under fire conditions

**Part 3.22: Test for vertical flame spread of vertically-mounted bunched
wires or cables — Category A**



AS/NZS IEC 60332.3.22:2021

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- Australian Industry Group
- Aviation and Marine Engineers Association, New Zealand
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- Electrical Regulatory Authorities Council, Australia
- Engineers Australia
- Institute of Electrical Inspectors, Australia
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-003, Electric Cables and Wires, to supersede AS/NZS IEC 60332.3.22:2017.

The objective of this document is to cover category A for methods of test for the assessment of vertical flame spread of vertically-mounted bunched wires or cables, under defined conditions.

This document relates to cables installed on the test ladder to achieve a nominal total volume of non-metallic material of 7 l/m of test sample. The flame application time is 40 min. The method of mounting uses the front of the ladder, a standard or wide ladder being used for cables having a conductor cross-section greater than 35 mm² according to the number of test pieces required, and a standard ladder for conductor cross-sections 35 mm² and smaller. The category is intended for general use where high volumes of non-metallic material are required to be evaluated.

The test is intended for type approval testing. The requirements for the selection of cables for testing are given in Annex A. The flame spread is measured as the extent of damage of the cable sample. This procedure can be used to demonstrate the cable's ability to limit flame spread. A recommended performance requirement is given in Annex B.

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