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Australian/New Zealand Standard™

Electrical installations—Selection of cables

Part 1.1: Cables for alternating voltages up to and including 0.6/1 kV—Typical Australian installation conditions

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AS/NZS 3008.1.1:2017

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The following are represented on Committee EL-001:

Australian Building Codes Board
Australian Industry Group
Communications, Electrical and Plumbing Union—Electrical Division
Consumers Federation of Australia
Electrical Contractors Association of New Zealand
Electrical Regulatory Authorities Council
Electrical Safety Organisation, New Zealand
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-001, Wiring Rules, to supersede AS/NZS 3008.1.1:2009, *Electrical installations—Selection of cables*, Part 1.1: *Cables for alternating voltages up to and including 0.6/1 kV—Typical Australian installation conditions*.

This Standard is applicable to Australian installation conditions where the nominal ambient air and soil temperatures are 40°C and 25°C, respectively. AS/NZS 3008.1.2 is applicable to New Zealand installation conditions where the nominal air and soil temperatures are 30°C and 15°C respectively. Each Part is a complete Standard and requires no reference to the other.

AS/NZS 3008.1.2 deals with cables for use with alternating voltages over 1 kV.

The objective of this Standard is to specify current-carrying capacity, voltage drop and short-circuit temperature rise of cables, to provide a method of selection for those types of electric cables and methods of installation that are in common use at working voltages up to and including 0.6/1 kV at 50 Hz a.c.

This Standard differs from the 2009 edition and its subsequent amendment as follows:

(a) Economic optimization for cable selection recommendations, including a new example in Appendix A.

(b) A new definition for Circuit.

(c) Cable core cross sections have been updated for the following:

  (i) Figure 1.

  (ii) Table 3(1).

  (iii) Table 3(2).

  (iv) Table 3(3).

  (v) Table 3(4).

  (vi) Table 10.

  (vii) Table 11.

  (viii) Table 12.

  (ix) Table 13.

  (x) Table 14.

  (xi) Table 15.

  (xii) Table 17.

  (xiii) Table 26(2).

(d) New notes to Tables 30, 31, 40, 41, 43, 44, 46, 47, 50 and 51 have been included.

(e) Changes to derating factors in Table 23.

(f) Circuit recommendations for low magnetic fields added to Appendix D.

In the preparation of this Standard, reference was made to IEC 60287 and acknowledgement is made of the assistance received from that source.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

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The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

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