AS/NZS 3198:1996

Australian/New Zealand Standard®

Approval and test specification—Electric cables—XLPE insulated—For working voltages up to and including 0.6/1 kV

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/3, Electric Wires and Cables. It was approved on behalf of the Council of Standards Australia on 26 February 1996 and on behalf of the Council of Standards New Zealand on 29 April 1996. It was published on 5 May 1996.

The following interests are represented on Committee EL/3:

Australian Electrical and Electronic Manufacturers Association
Department of Defence, Australia
Electrical regulatory authorities
Electricity Supply Association of Australia
Ministry of Commerce, New Zealand
New Zealand Electrical Contractors Association
New Zealand Electrical and Electronic Manufacturers Federation
Office of Energy, N.S.W.
Railways of Australia Committee
Testing interests

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Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notificationof any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 95231.

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PREFACE

This Standard was prepared by the Joint Standards Australia / Standards New Zealand Committee EL/3 on Electric Wires and Cables to supersede AS 3198—1990 and NZS/AS 3198—1990, *Approval and test specification—Electric cables—XLPE insulated—For working voltages up to and including 0.6/1kV*.

This Standard is one of series of Approval and Test Specifications issued by Standards Australia and Standards New Zealand. In Australia, these Standards are to be read in conjunction with AS 3100, *Approval and test specification—General requirements for electrical equipment*. In New Zealand, they are to be read in conjunction with NZS 6200, *Specification for general requirements for electrical apparatus and materials*. The purpose of these Standards is to outline the conditions which must be met to secure approval for the sale and use of electrical equipment. Only safety matters and related conditions are covered.

The objective of this Standard is to specify the construction, dimensions and tests for XLPE insulated cables for working voltages not exceeding 1 kV.

The objective of this revision is to update the 1990 edition and to add cables suitable for a maximum permissible conductor temperature of 110°C.

The nominal cross-sectional areas of the conductors specified herein are taken from AS 1125, *Conductors in insulated electric cables and flexible cords*, and are identical with the values recommended in IEC 228: 1978 *Conductors of insulated cables*.

This Standard differs from the 1990 edition as follows:

(a) Cables suitable for a maximum permissible conductor temperature of 110°C have been added.

(b) The Standard has been issued as a Joint Australian/New Zealand Standard.

In the preparation of this Standard, consideration was given to IEC 502 *Extruded solid dielectric insulated power cables for rated voltages from 1 kV to 30 kV* and acknowledgment is made of the assistance received from that source.

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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