

Australian/New Zealand Standard™

**Electric cables—Twisted pair for control
and protection circuits**



Standards Australia



**STANDARDS
NEW ZEALAND**
Paerewa Aotearoa

AS/NZS 2373:2003

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RECONFIRMATION
OF
AS/NZS 2373:2003
Electric cables—Twisted pair for control and protection circuits

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NOTES

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Australian/New Zealand Standard

**Electric cables—Twisted pair for control
and protection circuits**

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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 2373.2:1995, *Electric cables for control and protection circuits, Part 2: Twisted pair control cables*.

The objective of this Standard is to specify the construction, dimensions and tests for cables used for control, supervisory, protection and instrumentation circuits, with or without a support wire.

This Standard differs from the 1995 edition as follows:

- (a) The specified range of conductor cross-sectional areas has been amended.
- (b) The application of collective insulation, moisture barrier sheath, metallic sheath, armour and insect-resistant barrier have been nominated as optional processes.
- (c) The preferred range of cables has been reduced.
- (d) The approximate overall diameters have been deleted.

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.

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

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Electric cables—Twisted pair for control and protection circuits****1 SCOPE**

This Standard specifies requirements for screened polyethylene (PE) insulated twisted pair control cables for voltages up to and including 0.6/1 kV. A support wire is included for aerial cables.

It applies to cables intended for use in control, supervisory, protection and instrumentation circuits and includes cables commonly referred to as pilot cables. Control cables complying with this Standard may be used between power stations, substations or in industrial applications.

It does not apply to cables used solely for telecommunication purposes.

NOTE: Purchasing guidelines are contained in Appendix A.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1222 Steel conductors and stays—Bare overhead
- 1222.1 Part 1: Galvanized (SC/GZ)
- 2706 Numerical values—Rounding and interpretation of limiting values

AS/NZS

- 1125 Conductors in insulated electric cables and flexible cords
- 1660 Test methods for electric cables, cords and conductors
- 1660.1 Method 1: Conductor and metallic components
- 1660.2.1 Method 2.1: Insulation, extruded semi-conductive screens and non-metallic sheaths—Methods for general application
- 1660.3 Method 3: Electrical tests
- 1660.5.6 Method 5.6: Fire tests—Test for combustion propagation
- 3808 Insulating and sheathing materials for electric cables
- 5000 Electric cables—Polymeric insulated
- 5000.1 Part 1: For working voltages up to and including 0.6/1 kV

3 DEFINITIONS

For the purpose of this Standard, definitions given in the referenced Standards and those below apply.

3.1 Control cable

A cable used for control, measuring, protection and communication circuits.

3.2 Lay-up

The assembling of cores.

3.3 Routine tests

Tests made by the manufacturer on each manufactured length of cable to check that each length meets the specified requirements.