AS/NZS 2373:2003
Reconfirmed 2017

Australian/New Zealand Standard™

Electric cables—Twisted pair for control and protection circuits

Standards Australia

STANDARDS NEW ZEALAND
Paerewa Aotearoa

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 2 September 2003 and on behalf of the Council of Standards New Zealand on 9 September 2003. It was published on 29 October 2003.

The following are represented on Committee EL-003:

Australasian Railway Association
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
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Department of Defence (Australia)
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This Standard was issued in draft form for comment as DR 02567.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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

RECONFIRMATION NOTICE

Technical Committee EL-003 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

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The following are represented on Technical Committee EL-003:

Australian Cable Makers' Association
Australian Industry Group
Electrical Compliance Testing Association
Electrical Regulatory Authorities Council
National Electrical and Communications Association
Queensland University of Technology

NOTES

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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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:	Conductors 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.