

Australian/New Zealand Standard™

Cables for traffic signal installations

Part 1: Multicore power cables

AS/NZS 2276.1:2004

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 10 June 2004 and on behalf of the Council of Standards New Zealand on 25 June 2004.
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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION
OF
AS/NZS 2276.1:2004
Cables for traffic signal installations
Part 1: Multicore power cables

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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.

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Australian Cable Makers' Association
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NOTES

Australian/New Zealand Standard™

Cables for traffic signal installations

Part 1: Multicore power cables

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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 2276.1—1992 and NZS/AS 2276.1—1992.

The objective of this Standard is to provide manufacturers and suppliers with construction, dimensions and tests for underground multicore power cables for the interconnection of traffic signal posts and/or the associated control equipment.

This Standard is part of a series comprising three parts as follows:

AS/NZS

- 2276 Cables for traffic signal installations
- 2276.1 Part 1: Multicore power cables (this Standard)
- 2276.2 Part 2: Feeder cable for vehicle detectors
- 2276.3 Part 3 : Loop cable for vehicle detectors

This Standard differs from the 1992 edition as follows:

- (a) It has been published as a joint Australian/New Zealand Standard.
- (b) Insulation and sheath materials have been referenced to AS/NZS 3808.
- (c) The application of a sacrificial layer is recommended where a polyamide jacket has been provided.

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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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard
Cables for traffic signal installations**Part 1: Multicore power cables****1 SCOPE**

This Standard specifies requirements for polyvinyl chloride (PVC) insulated and sheathed underground multicore power cable rated at 0.6/1 (1.2) kV for the interconnection of traffic signal posts and/or the associated control equipment.

NOTE: Purchasing guidelines are contained in Appendix A.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS

1125	Conductors in insulated electric cables and flexible cords
1660	Test methods for electric cables, cords and conductors
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

3 DEFINITIONS

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

3.1 Core

The conductor with its insulation but not including any protective covering.

3.2 Lay-up

Assembling of cores in a helical configuration.

3.3 Length of lay

The axial distance between successive turns of the helix formed by a core of a multicore cable.

3.4 Maximum continuous conductor temperature

The maximum temperature at which the conductor of the cable may be operated continuously and which is the temperature resulting from the combined effect of the ambient temperature and the current loading of the conductor.

3.5 Pitch circle diameter

The diameter of a circle which passes through the mid-points of the laid-up cores of a layer.