STANDARDS Australia

AS/NZS ISO/IEC 14763.3:2007

Telecommunications installations — Implementation and operation of customer premises cabling — Part 3: Acceptance testing for optical fibre cabling

STANDARD

AS/NZS

STANDARDS NEW ZEALAND
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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CT-001, Communications Cabling. It was approved on behalf of the Council of Standards Australia on 10 April 2007 and on behalf of the Council of Standards New Zealand on 4 May 2007.
This Standard was published on 15 May 2007.

The following are represented on Committee CT-001:

Australian Chamber of Commerce and Industry
Australian Communications and Media Authority
Australian Electrical and Electronic Manufacturers Association
Australian Information Industry Association
Australian Telecommunications Users Group
Communications Alliance
SingTel Optus
Electrical Compliance Testing Association
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We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 07136.

Australian/New Zealand Standard™

Telecommunications installations—Implementation and operation of customer premises cabling

Part 3: Testing of optical fibre cabling

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CT-001, Communications Cabling.

This Standard is identical with, and has been reproduced from ISO/IEC 14763-3:2006, *Information technology—Implementation and operation of customer premises cabling*—Part 3: *Testing of optical fibre cabling*.

Additional guidance on the application of ISO/IEC 14636-3 is given in Appendix ZA.

The objective of this Standard is to provide users with specifications of systems and methods for the inspection and testing of optical fibre cabling designed in accordance with ISO/IEC 11801 or equivalent standards. The test methods refer to existing standards-based procedures where they exist.

Testing of Optical Fibre Cabling to this Standard requires Conformance to Clause 4 within this Standard.

Where Optical Fibre Cabling acceptance or compliance testing is specified, then Annex B of AS/NZS 3080 applies, which calls up AS/NZS ISO/IEC 14763.3 specifically to provide the associated test methodology.

Refer to Annex ZA in AS/NZS ISO/IEC 14763.3 for guidance.

In Australia and New Zealand, Fibre Optics Safety is covered by AS/NZS 2211, Parts 1 and 2.

As this Standard is reproduced from an international standard, the following applies:

(a) Its number appears on the cover and title page while the international standard number appears only on the cover.

(b) In the source text ‘this part of ISO/IEC 14763’ should read ‘this Australian/New Zealand Standard’.

(c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		*Australian/New Zealand Standard*	
ISO/IEC		AS/NZS	
11801	Information technology—Generic cabling for customer premises	3080	Telecommunications installations—Generic cabling for commercial premises (ISO/IEC 4801:2002, MOD)
IEC			
60825	Safety of laser products	2211	Safety of laser products
60825-2	Part 2: Safety of optical fibre communication systems	2211.2	Part 2: Safety of optical fibre communications systems

Only international references that have been adopted as Australian/New Zealand Standards have been listed.

The terms ‘normative’ and ‘informative’ are used to define the application of the annex or appendix to which they apply. A normative annex or appendix is an integral part of a standard, whereas an informative annex or appendix is only for information and guidance.

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INTRODUCTION

This document is one of three prepared in support of International Standard ISO/IEC 11801.

Figure 1 below shows the inter-relationship between ISO/IEC 11801, these associated Technical Reports/Standards and other related standards.

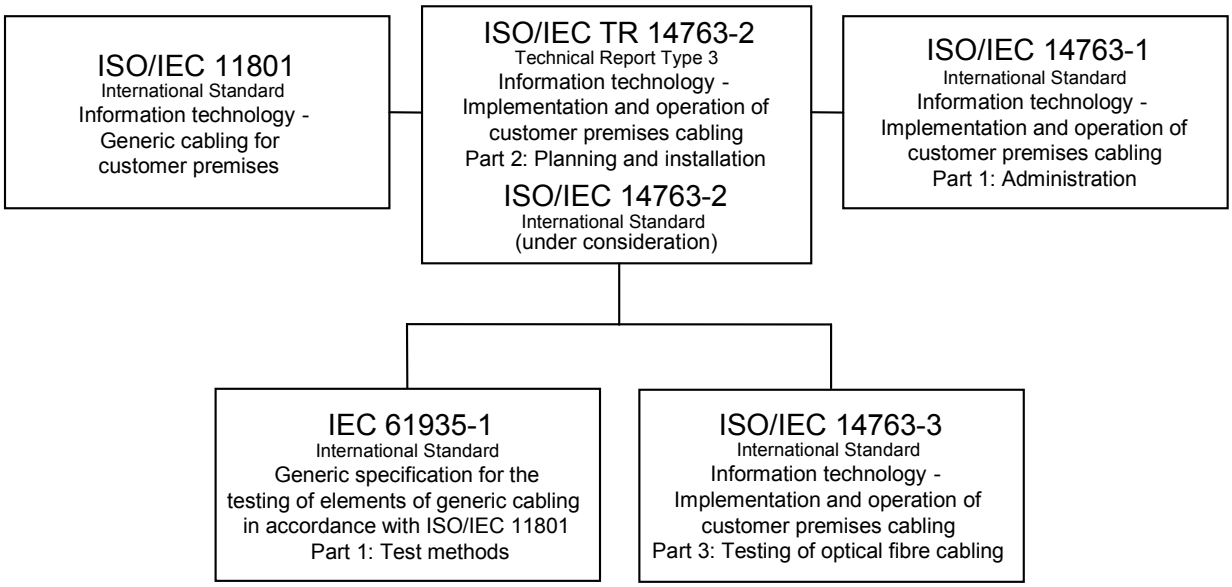

Figure 1 – Document relationships

Part 3 of ISO/IEC 14763 details inspection and test procedures for optical fibre cabling

- designed in accordance with ISO/IEC 11801 and equivalent standards and
- installed according to the requirements and recommendations of ISO/IEC 14763-2 (under consideration).

Users of this International Standard should be familiar with both ISO/IEC 11801 and ISO/IEC 14763-2.

The quality plan for each installation will define the acceptance tests and sampling levels selected for that installation. Requirements and recommendations for the development of a quality plan are described in ISO/IEC 14763-2 (under consideration).

AUSTRALIAN/NEW ZEALAND STANDARD

Telecommunications installations—Implementation and operation of customer premises cabling

Part 3:
Testing of optical fibre cabling

1 Scope

This part of ISO/IEC 14763 specifies systems and methods for the inspection and testing of optical fibre cabling designed in accordance with ISO/IEC 11801 or equivalent standards. The test methods refer to existing standards-based procedures where they exist.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 11801, *Information technology – Generic cabling for customer premises*

ISO/IEC TR 14763-2, *Information technology – Implementation and operation of customer premises cabling – Part 2: Planning and installation*[1]

IEC 60050-731, *International Electrotechnical Vocabulary – Chapter 731: Optical fibre communication*

IEC 60793-1-20, *Optical fibres – Part 1-20: Measurement methods and test procedures – Fibre geometry*

IEC 60793-1-45, *Optical fibres – Part 1-45: Measurement methods and test procedures – Mode field diameter*

IEC 60793-2-10, *Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres*

IEC 60793-2-50, *Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres*

IEC 60825-2, *Safety of laser products – Part 2: Safety of optical fibre communication systems (OFCS)*

IEC 60874-14-1, *Connectors for optical fibres and cables – Part 14-1: Detail specification for fibre optic connector type SC/PC standard terminated to multimode fibre type A1a, A1b*

IEC 60874-14-2, *Connectors for optical fibres and cables – Part 14-2: Detail specification for fibre optic connector type SC/PC tuned terminated to single-mode fibre type B1*

IEC 60874-14-3, *Connectors for optical fibres and cables – Part 14-3: Detail specification for fibre optic adaptor (simplex) type SC for single-mode fibre*

IEC 60874-19, *Connectors for optical fibres and cables – Part 19: Sectional specification for fibre optic connector – Type SC-D(uplex)*

[1] ISO/IEC 14763-2 is planned to become an International Standard.