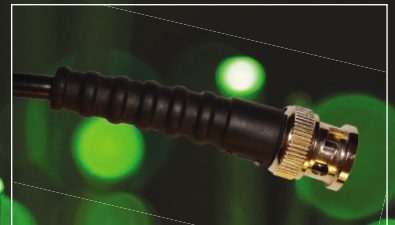


Telecommunications installations – Implementation and operation of customer premises cabling – Part 3: Acceptance testing for optical fibre cabling



STANDARD

AS/NZS



AS/NZS ISO/IEC 14763.3:2007

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
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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

First published as AS/NZS ISO/IEC 14763.3:2007.

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Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 8250 7

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:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
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.

CONTENTS

	<i>Page</i>
1	Scope..... 1
2	Normative references..... 1
3	Definitions and abbreviations 2
3.1	Definitions 2
3.2	Abbreviations..... 4
3.3	Symbols 4
4	Conformance..... 4
5	General requirements 5
5.1	Test system 5
5.2	Normalisation and calibration 5
5.3	Environmental conditions 5
5.3.1	Protection of transmission and terminal equipment..... 5
5.3.2	Contamination 6
5.3.3	Use of test equipment..... 6
5.3.4	Relevance of measurement..... 6
5.3.5	Treatment of marginal test results 6
5.4	Documentation 6
6	Test equipment..... 7
6.1	LSPM 7
6.1.1	General 7
6.1.2	Light sources 7
6.1.3	Power meters 7
6.1.4	Test system stability 7
6.2	OTDR..... 8
6.2.1	General 8
6.2.2	OTDR characterization using a launch cord only..... 8
6.2.3	OTDR characterization using a launch cord and a tail cord 8
6.3	Cabling interface adapters 10
6.3.1	Connecting hardware at test interfaces..... 10
6.3.2	Reference connector requirements..... 10
6.3.3	MMF test cords 10
6.3.4	SMF test cords 13
6.4	MMF launched modal distribution (LMD) 14
6.5	SMF launched modal distribution (LMD)..... 14
7	Inspection equipment..... 14
7.1	Connecting hardware end-face 15
7.1.1	General 15
7.1.2	Optical, direct vision microscope..... 15
7.1.3	CCD microscope..... 15
8	Cabling under test..... 15
8.1	Channels and permanent links 15
8.1.1	General 15

	<i>Page</i>
8.1.2 Reference planes.....	16
8.1.3 Wavelength of measurement.....	17
8.1.4 Direction of measurement.....	17
9 Testing of installed cabling.....	17
9.1 Attenuation/insertion loss.....	17
9.1.1 LSPM.....	17
9.1.2 OTDR.....	21
9.2 Propagation delay.....	24
9.2.1 Test method.....	24
9.2.2 Treatment of results.....	24
9.3 Length.....	24
9.3.1 Test method.....	24
9.3.2 Measurement uncertainty.....	24
9.3.3 Treatment of results.....	24
10 Testing of cabling components within installed cabling.....	24
10.1 Attenuation/insertion loss (optical fibre cable).....	24
10.1.1 Test method.....	24
10.1.2 Measurement uncertainty.....	25
10.1.3 Treatment of results.....	25
10.2 Attenuation/insertion loss (local and remote test interfaces).....	26
10.2.1 Test method.....	26
10.2.2 Test system measurement uncertainty.....	26
10.2.3 Treatment of results.....	27
10.3 Insertion loss (connecting hardware).....	27
10.3.1 Test method.....	27
10.3.2 Treatment of results.....	28
10.4 Return loss (connecting hardware).....	28
10.4.1 Test method (in accordance with IEC 61300-3-6, method 2).....	28
10.4.2 Treatment of results.....	29
10.4.3 Measurement uncertainty.....	30
10.5 Optical fibre length.....	30
10.5.1 Test method.....	30
10.5.2 Measurement uncertainty.....	32
10.5.3 Treatment of results.....	32
10.6 Attenuation/insertion loss (cords).....	32
10.6.1 Test method.....	32
10.6.2 Treatment of results.....	33
10.7 Return loss (cords).....	33
11 Inspection of cabling and cabling components.....	33
11.1 Optical fibre continuity.....	33
11.2 Cabling polarity.....	34
11.3 Optical fibre cable length.....	34
11.4 Inspection of optical fibre end-faces.....	34
11.5 Optical fibre core size.....	34
Annex A (normative) Launched modal distribution (LMD).....	35
A.1 Distribution of optical power within a MMF.....	35
A.2 Modal transfer function.....	35

	<i>Page</i>
A.3 MPD (modal power distribution)	36
A.3.1 General	36
A.3.2 Requirements	37
A.4 CPR (coupled power ratio)	37
A.4.1 General	37
A.4.2 Test system	38
A.4.3 Test method	38
Annex B (normative) Visual inspection criteria for connectors	41
B.1 Connector end-face definitions	41
B.1.1 General	41
B.1.2 End-face zone definitions	41
B.1.3 Modified inspection criteria	41
B.2 Inspection of terminated optical fibre	42
B.2.1 General	42
B.2.2 Scratch and pit defects	42
B.2.3 Chip defects	42
B.2.4 Cracks	42
Annex C (informative) Optical time domain reflectometry	43
C.1 Operational capability	43
C.1.1 Effective characterization	43
C.1.2 Dynamic range	43
C.1.3 Pulse width	43
C.1.4 Integration or sample count	43
C.2 Limitations of OTDR capability	44
C.2.1 Minimum lengths of operation	44
C.2.2 Ghosting	45
C.2.3 Effective group index of refraction (IOR)	46
C.2.4 Scattering coefficient	46
Annex D (normative) Inspection and testing of test and field calibration cords	47
D.1 General requirements	47
D.2 Insertion loss (test and field calibration cord reference connections)	47
Annex E (informative) 3-jumper method for link and channel attenuation	49
Annex F (informative) Quality planning	50
F.1 Inspection and test schedules	50
F.2 Stage 1 inspection and testing	50
F.3 Stage 2 testing	51
F.3.1 Basic test group	51
F.3.2 Extended test group	51
BIBLIOGRAPHY	52
Appendix ZA	52

Figure 1 – Document relationships	viii
Figure 2 – The test system and the cabling under test	5
Figure 3 – OTDR characterization using a launch cord only.....	9
Figure 4 – OTDR characterization using a launch cord and a tail cord.....	9
Figure 5 – Test cord labelling and identification	11
Figure 6 – OTDR launch cord schematic	12
Figure 7 – Channels and permanent links in accordance with ISO/IEC 11801 and equivalent standards	16
Figure 8 – Channel and permanent link test configuration	16
Figure 9 – LSPM 3-jumper attenuation measurement of installed cabling	19
Figure 10 – LSPM 1-jumper attenuation measurement of installed link	20
Figure 11 – OTDR measurement of installed cabling (permanent link)	22
Figure 12 – OTDR measurement of installed cabling (channel)	22
Figure 13 – OTDR measurement of optical fibre attenuation	26
Figure 14 – OTDR measurement of interface insertion loss	27
Figure 15 – OTDR measurement of joint insertion loss	28
Figure 16 – OTDR measurement of return loss.....	29
Figure 17 – Determination of length using an OTDR	31
Figure 18 – OTDR characterization of a SMF permanent link containing a break.....	31
Figure 19 – OTDR characterization of an permanent link containing a macrobend.....	32
Figure 20 – Measurement of cord interface attenuation/insertion loss	33
Figure A.1 – Example of a characteristic MTF.....	36
Figure A.2 – Example of a characteristic MPD	36
Figure A.3 – MPD (modal power distribution) specification	37
Figure A.4 – CPR measurement method.....	39
Figure B.1 – Connector end-face region definitions.....	41
Figure B.2 – Polishing defects and cracks	42
Figure C.1 – OTDR characterization using different length launch cords	44
Figure C.2 – OTDR characterization showing ghost effects.....	45
Figure C.3 – OTDR characterization showing complex ghost effects	46
Figure D.1 – Measurement of field calibration cord interface attenuation/insertion loss.....	47
Figure E.1 – Example of cabling and test cord configuration with 3-jumper test method.....	49

Table 1 – MMF light source characteristics	7
Table 2 – SMF light source characteristics	7
Table 3 – Non-SC reference connector requirements.....	10
Table 4 – Connecting hardware insertion loss.....	21
Table B.1 – Connector end-face regions.....	41
Table B.2 – Requirements for visual end-face inspection	42
Table C.1 – Default effective group IOR values	46
Table C.2 – Default scattering coefficient values.....	46

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.

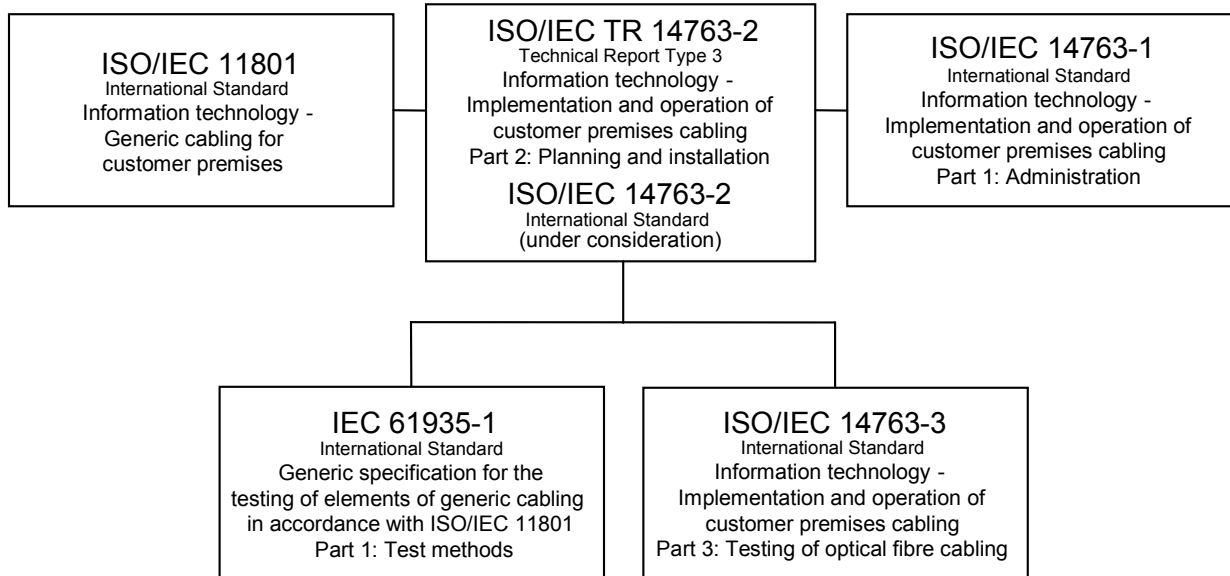


Figure 1 – Document relationships

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.