



Edition 1.0 2009-09

INTERNATIONAL STANDARD



Fibre optic interconnecting devices and passive components performance standard – Part 086-2: Non-connectorized single-mode bidirectional 1 490 / 1 550 nm downstream and 1 310 nm upstream WWDM devices for category C – Controlled environment

IEC 61753-086-2:2009

https://standards.iteh.ai/catalog/standards/iec/c03c1983-677e-465a-8578-918847e6c908/iec-61753-086-2-2009





THIS PUBLICATION IS COPYRIGHT PROTECTED

Copyright © 2009 IEC, Geneva, Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either IEC or IEC's member National Committee in the country of the requester.

If you have any questions about IEC copyright or have an enquiry about obtaining additional rights to this publication, please contact the address below or your local IEC member National Committee for further information.

IEC Central Office 3, rue de Varembé CH-1211 Geneva 20 Switzerland Email: inmail@iec.ch Web: www.iec.ch

About the IEC

The International Electrotechnical Commission (IEC) is the leading global organization that prepares and publishes International Standards for all electrical, electronic and related technologies.

About IEC publications

The technical content of IEC publications is kept under constant review by the IEC. Please make sure that you have the latest edition, a corrigenda or an amendment might have been published.

Catalogue of IEC publications: <u>www.iec.ch/searchpub</u>

The IEC on-line Catalogue enables you to search by a variety of criteria (reference number, text, technical committee,...). It also gives information on projects, withdrawn and replaced publications.

IEC Just Published: <u>www.iec.ch/online_news/justpub</u>

Stay up to date on all new IEC publications. Just Published details twice a month all new publications released. Available on-line and also by email.

Electropedia: www.electropedia.org

The world's leading online dictionary of electronic and electrical terms containing more than 20 000 terms and definitions in English and French, with equivalent terms in additional languages. Also known as the International Electrotechnical Vocabulary online.

 Customer Service Centre: <u>www.iec.ch/webstore/custserv</u>
If you wish to give us your feedback on this publication or need further assistance, please visit the Customer Service Centre FAQ or contact us:

Email: csc@iec.ch

Tel:: +41 22 919 02 11 alog/standards/iec/c03c1983-677e-465a-8578-918847e6c908/iec-61753-086-2-2009 Fax: +41 22 919 03 00





Edition 1.0 2009-09

INTERNATIONAL STANDARD



Fibre optic interconnecting devices and passive components performance standard – Part 086-2: Non-connectorized single-mode bidirectional 1 490 / 1 550 nm downstream and 1 310 nm upstream WWDM devices for category C – Controlled environment

IEC 61753-086-2:2009

https://standards.iteh.ai/catalog/standards/iec/c03c1983-677e-465a-8578-918847e6c908/iec-61753-086-2-2009

INTERNATIONAL ELECTROTECHNICAL COMMISSION

PRICE CODE

Ν

ICS 33.180.10

ISBN 978-2-88910-558-8

CONTENTS

FOREWORD		
1	Scope	
2	Normative references5	
3	Test6	
4	Test report6	
5	Performance requirements7	
	5.1 Reference components7	
	5.2 Dimensions	
	5.3 Sample size7	
	5.4 Test details and requirements7	
Annex A (normative) Sample size12		
Annex B (informative) General information for 1490 / 1550 nm downstream and 1310 nm upstream PON WWDM devices		
Bib	liography14	
	ure B.1 – Example of 1490 / 1550 nm downstream and 1310 nm upstream WWDM central office and customer s <mark>ide – Separate video detection</mark> inside the ONU	
	ure B.2 – Example of 1490 / 1550 nm downstream and 1310 nm upstream WWDM central office side – Integrated video detection inside the ONU	
Table 1 – Test details and requirements7		
Table A.1 – Sample size		

https://standards.iteh.ai/catalog/standards/iec/c03c1983-677e-465a-8578-918847e6c908/iec-61753-086-2-2009

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS PERFORMANCE STANDARD –

Part 086-2: Non-connectorized single-mode bidirectional 1 490 / 1 550 nm downstream and 1 310 nm upstream WWDM devices for category C – Controlled environment

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committee; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 61753-086-2 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

The text of this standard is based on the following documents:

FDIS	Report on voting
86B/2892/FDIS	86B/2922/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of IEC 61753 series, under the general title *Fibre optic interconnecting devices and passive components performance standards*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The "colour inside" logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this publication using a colour printer.

iTeh Standards (https://standards.iteh.ai) Document Preview

IEC 61753-086-2:2009

https://standards.iteh.ai/catalog/standards/iec/c03c1983-677e-465a-8578-918847e6c908/iec-61753-086-2-2009