

Irish Standard I.S. EN 61753-022-2:2013

Fibre optic interconnecting devices and passive components - Performance standard -- Part 022-2: Fibre optic connectors terminated on multimode fibre for category C - Controlled environment (IEC 61753-022-2:2012 (EQV))

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This document replaces: EN 61753-022-2:2003

This document is based on: EN 61753-022-2:2013 EN 61753-022-2:2003

Published: 15 February, 2013 8 April, 2003

This document was published

under the authority of the NSAI and comes into effect on:

ICS number: 33.180.20

28 February, 2013

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EUROPEAN STANDARD

EN 61753-022-2

NORME EUROPÉENNE EUROPÄISCHE NORM

February 2013

ICS 33.180.20

Supersedes EN 61753-022-2:2003

English version

Fibre optic interconnecting devices and passive components Performance standard Part 022-2: Fibre optic connectors terminated on multimode fibre for category C Controlled environment

(IEC 61753-022-2:2012)

Dispositifs d'interconnexion et composants passifs à fibres optiques Norme de performance Partie 022-2: Connecteurs à fibres optiques raccordés à une fibre multimodale pour la catégorie C Environnement contrôlé (CEI 61753-022-2:2012)

Lichtwellenleiter Verbindungselemente und passive
Bauteile - Betriebsverhalten Teil 022-2: LichtwellenleiterSteckverbinder zum Anschluss an
Mehrmodenfasern für die Kategorie C Kontrollierte Umgebung
(IEC 61753-022-2:2012)

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EN 61753-022-2:2013

- 2 -

Foreword

The text of document 86B/3493/FDIS, future edition 2 of IEC 61753-022-2, prepared by SC 86B, "Fibre optic interconnecting devices and passive components", of IEC TC 86, "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61753-022-2:2013.

The following dates are fixed:

•	latest date by which the document has	(dop)	2013-09-20
	to be implemented at national level by		
	publication of an identical national		
	standard or by endorsement		
•	latest date by which the national	(dow)	2013-12-20
	standards conflicting with the		
	document have to be withdrawn		

This document supersedes EN 61753-022-2:2003.

EN 61753-022-2:2013 includes the following significant technical changes with respect to EN 61753-022-2:2003:

- reconsideration of test requirements and details.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61753-022-2:2012 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61753-1:2007 NOTE Harmonized as EN 61753-1:2007 (not modified).

EN 61753-022-2:2013

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60793-2-10	-	Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres	EN 60793-2-10	-
IEC 61300-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance	EN 61300-1	-
IEC 61300-2-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal)	EN 61300-2-1	-
IEC 61300-2-2	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability	EN 61300-2-2	-
IEC 61300-2-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention	EN 61300-2-4	-
IEC 61300-2-6	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-6: Tests - Tensile strength of coupling mechanism	EN 61300-2-6	-
IEC 61300-2-12	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests - Impact	EN 61300-2-12	-
IEC 61300-2-17	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests - Cold	EN 61300-2-17	-
IEC 61300-2-18	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance	EN 61300-2-18	-

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I.S. EN 61753-022-2:2013 - 4 -

EN 61753-022-2:2013

IEC 61300-2-19	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state)	EN 61300-2-19	-
IEC 61300-2-22	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature	EN 61300-2-22	-
IEC 61300-2-42	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for connectors	EN 61300-2-42	-
IEC 61300-2-44	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices	EN 61300-2-44	-
IEC 61300-3-3	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-3: Examinations and measurements - Active monitoring of changes in attenuation and return loss	EN 61300-3-3	-
IEC 61300-3-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements - Attenuation	EN 61300-3-4	-
IEC 61300-3-6	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss	EN 61300-3-6	-
IEC 61300-3-28	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-28: Examinations and measurements - Transient loss	EN 61300-3-28	-
IEC 61300-3-34	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-34: Examinations and measurements - Attenuation of random mated connectors	EN 61300-3-34	-

- 2 - 61753-022-2 © IEC:2012

CONTENTS

FOI	REWO	DRD	3
1	Scope		
2	Normative references		
3	Test		
4	Test report		
5 Performance requirements			7
		Dimensions	
	5.2	Sample size	7
	5.3	Test details and requirements	7
Anr		(normative) Sample size	
Tab	le 1 -	- Test details and requirements	8
Tab	le A.	1 – Sample size	14

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- 3 -

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –

Part 022-2: Fibre optic connectors terminated on multimode fibre for category C – Controlled environment

FOREWORD

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International Standard IEC 61753-022-2 has been prepared by sub-committee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition, published in 2003. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

reconsideration of test requirements and details.

-4 -

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

FDIS	Report on voting
86B/3493/FDIS	86B/3537/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 the parts in the IEC 61753 series, published under the general title, *Fibre optic interconnecting and passive components – Perfomance standard* can be found on the IEC website.

Future standards in this series will carry the new general title as cited above. Titles of existing standards in this series will be updated at the time of the next edition.

The committee has decided that the contents of this publication will remain unchanged until the stability 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.

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- 5 -

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –

Part 022-2: Fibre optic connectors terminated on multimode fibre for category C – Controlled environment

1 Scope

This part of IEC 61753 contains the minimum requirements and severities which a fibre optic connector terminated on multimode fibre must satisfy in order to be categorized as meeting the IEC standard category C – Controlled Environment, as defined in Annex A of IEC 61753-1:2007.

2 Normative references

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

- IEC 60793-2-10, Optical fibres Part 2-10: Product specifications Sectional specification for category A1 multimode fibres
- IEC 61300-1, Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 1 General and guidance
- IEC 61300-2-1, Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 2-1: Tests Vibration (sinusoidal)
- IEC 61300-2-2, Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 2-2: Tests Mating durability
- IEC 61300-2-4, Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 2-4: Tests Fibre/cable retention
- IEC 61300-2-6, Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 2-6: Tests Tensile strength of coupling mechanism
- IEC 61300-2-12, Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 2-12: Tests Impact
- IEC 61300-2-17, Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 2-17: Tests Cold
- IEC 61300-2-18, Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 2-18: Tests Dry heat High temperature endurance
- IEC 61300-2-19, Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 2-19: Tests Damp heat (steady state)



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