SLOVENSKI STANDARD
SIST EN 61753-1-3:2015

01-april-2015

Optični spojni elementi in pasivne komponente - Tehnični standard - 1-3. del: Splošno in navodilo za sestav enorodnega optičnega konektorja in kabla za industrijska okolja, kategorija I (IEC 61753-1-3:2014)

Fibre optic interconnecting devices and passive components - Performance standard - Part 1-3: General and guidance for single-mode fibre optic connector and cable assembly for industrial environment, Category I (IEC 61753-1-3:2014)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Betriebsverhalten - Teil 1-3: Allgemeines und Leitfaden für Einmoden-Lichtwellenleiter-Steckverbinder und konfektionierte LWL-Kabel in rauer industrieller Umgebung der Kategorie I (IEC 61753-1-3:2014)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Norme de performance - Partie 1-3 : Généralités et lignes directrices relatives aux connecteurs à fibres optiques unimodales et aux cordons en environnement industriel, Catégorie I (CEI 61753-1-3:2014)

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EUROPEAN STANDARD

NORME EUROPÉENNE

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English Version

Fibre optic interconnecting devices and passive components - Performance standard - Part 1-3: General and guidance for single-mode fibre optic connector and cable assembly for industrial environment, Category I (IEC 61753-1-3:2014)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Norme de performance - Partie 1-3 : Généralités et lignes directrices relatives aux connecteurs à fibres optiques unimodales et aux cordons en environnement industriel, Catégorie I (CEI 61753-1-3:2014)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Betriebsverhalten - Teil 1-3: Allgemeines und Leitfaden für Einmoden-Lichtwellenleiter-Steckverbinder und konfektionierte LWL-Kabel in rauer industrieller Umgebung der Kategorie I (IEC 61753-1-3:2014)

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Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

The text of document 86B/3752/FDIS, future edition 1 of IEC 61753-1-3, 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 61753-1-3:2014.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2015-03-27
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2017-06-27

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The text of the International Standard IEC 61753-1-3:2014 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 61300-2-35	NOTE	Harmonised as EN 61300-2-35.

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 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60068-2-60	-	Environmental testing -- Part 2-60: Tests - Test Ke: Flowing mixed gas corrosion test	EN 60068-2-60	-
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
IEC 60793-2-50	-	Optical fibres -- Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN 60793-2-50	-
IEC 61300 (series)	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures	EN 61300 (series)	-
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 61300-2-5	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-5: Tests - Torsion	EN 61300-2-5	-
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 61300-2-7	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-7: Tests - Bending moment	EN 61300-2-7	-
IEC 61300-2-9	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-9: Tests - Shock	EN 61300-2-9	-

IEC 61300-2-10	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-10: Tests - Crush resistance	EN 61300-2-10	-
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 61300-2-22	-	Basic test and measurement procedures - Part 2-22: Tests - Change of temperature	-	-
IEC 61300-2-26	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-26: Tests - Salt mist	EN 61300-2-26	-
IEC 61300-2-34	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-34: Tests - Resistance to solvents and contaminating fluids of interconnecting components and closures	EN 61300-2-34	-
IEC 61300-2-46	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 2-46: Tests - Damp heat cyclic	EN 61300-2-46	-
IEC 61300-3-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 3-1: Examinations and measurements - Visual examination	EN 61300-3-1	-
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	2012	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 3-4: Examinations and measurements - Attenuation	EN 61300-3-4	2013
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 61300-3-11	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 3-11: Examinations and measurements - Engagement and separation forces	EN 61300-3-11	-
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	-
IEC 61300-3-35	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 3-35: Examinations and measurements - Visual inspection of fibre optic connectors and fibre-stub transceivers	EN 61300-3-35	-
IEC 61753-1	2007	Fibre optic interconnecting devices and passive components performance standard -- Part 1: General and guidance for performance standards	EN 61753-1	2007
IEC 61754-(series)		Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces	EN 61754 (series)	-
IEC 61755-(series)		Fibre optic interconnecting devices and passive components -Fibre optic connector optical interfaces	EN 61755 (series)	-
IEC 61755-1	-	Fibre optic interconnecting devices and passive components -Fibre optic connector optical interfaces -- Part 1: Optical interfaces for single mode non-dispersion shifted fibres - General and guidance	EN 61755-1	-
ISO/IEC 24702	-	Information technology - Generic cabling - Industrial premises	-	-
ISO/IEC/TR 29106	-	Information technology - Generic cabling - Introduction to the MICE environmental classification	-	-

IEC 61753-1-3

Edition 1.0 2014-05

INTERNATIONAL STANDARD

Fibre optic interconnecting devices and passive components – Performance standard –
Part 1-3: General and guidance for single-mode fibre optic connector and cable assembly for industrial environment, Category I

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –

Part 1-3: General and guidance for single-mode fibre optic connector and cable assembly for industrial environment, Category I

FOREWORD

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International Standard IEC 61753-1-3 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This first edition cancels and replaces IEC/PAS 61753-1-3 published in 2009. This edition constitutes a technical revision.

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

FDIS	Report on voting
86B/3752/FDIS	86B/3780/RVD