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NSAI Standards

Irish Standard
I.S. EN 61753-381-6:2016

Fibre optic interconnecting devices and passive components - Performance standard - Part 381-6: Cyclic arrayed waveguide grating - Category O (uncontrolled environment)

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This document is based on:	*Published:*
EN 61753-381-6:2016	2016-04-29

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
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I.S. EN 61753-381-6:2016 is the adopted Irish version of the European Document EN 61753-381-6:2016, Fibre optic interconnecting devices and passive components - Performance standard - Part 381-6: Cyclic arrayed waveguide grating - Category O (uncontrolled environment)

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NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61753-381-6

April 2016

ICS 33.180.20

English Version

Fibre optic interconnecting devices and passive components - Performance standard - Part 381-6: Cyclic arrayed waveguide grating - Category O (uncontrolled environment) (IEC 61753-381-6:2016)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Norme de performance - Partie 381-6: Réseau sélectif planaire cyclique - Catégorie O (environnement non contrôlé) (IEC 61753-381-6:2016)

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European foreword

The text of document 86B/3955/FDIS, future edition 1 of IEC 61753-381-6, 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 61753-381-6:2016.

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)	2016-11-09
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2019-02-09

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IEC 61300 Series	NOTE	Harmonized as EN 61300 Series.
IEC 61300-2-17	NOTE	Harmonized as EN 61300-2-17.
IEC 61300-2-18	NOTE	Harmonized as EN 61300-2-18.
IEC 61753-081-2	NOTE	Harmonized as EN 61753-081-2.
IEC 61753-1	NOTE	Harmonized as EN 61753-1.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

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

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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 61300-2-4	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention	-	-
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 61300-2-9	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-9: Tests - Shock	EN 61300-2-9	-
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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 strain relief	EN 61300-2-42	-

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EN 61753-381-6:2016

Publication	Year	Title	EN/HD	Year
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 61300-2-48	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-48: Tests - Temperature-humidity cycling	EN 61300-2-48	-
IEC 61300-3-2	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-2: Examination and measurements - Polarization dependent loss in a single-mode fibre optic device	EN 61300-3-2	-
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 61300-3-20	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-20: Examinations and measurements - Directivity of fibre optic branching devices	EN 61300-3-20	-
IEC 61300-3-29	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-29: Examinations and measurements - Spectral transfer characteristics of DWDM devices	EN 61300-3-29	-
IEC 61300-3-32	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-32: Examinations and measurements - Polarisation mode dispersion measurement for passive optical components	EN 61300-3-32	-
IEC 61300-3-38	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-38:Examinations and measurements - Group delay, chromatic dispersion and phase ripple	EN 61300-3-38	-
IEC 61753-021-6	-	Fibre optic interconnecting devices and passive components performance standard - Part 021-6: Grade B/2 single-mode fibre optic connectors for category O - Uncontrolled environment	EN 61753-021-6	-

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Publication	Year	Title	EN/HD	Year
IEC 62074-1	-	Fibre optic interconnecting devices and passive components - Fibre optic WDM devices - Part 1: Generic specification	EN 62074-1	-
ITU-T Recommendation G.692	-	Optical interfaces for multichannel systems with optical amplifiers	-	-
ITU-T Recommendation G.694.1	-	Spectral grids for WDM applications: DWDM frequency grid	-	-
ITU-T Recommendation G.698.3	-	Multichannel seeded DWDM applications with single-channel optical interfaces	-	-

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NORME INTERNATIONALE

Fibre optic interconnecting devices and passive components – Performance standard –
Part 381-6: Cyclic arrayed waveguide grating – Category O (uncontrolled environment)

Dispositifs d'interconnexion et composants passifs à fibres optiques – Norme de performance –
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Partie 381-6: Réseau sélectif planaire cyclique – Catégorie O (environnement non contrôlé)

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –

Part 381-6: Cyclic arrayed waveguide grating – Category O (uncontrolled environment)

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

FDIS	Report on voting
86B/3955/FDIS	86B/3970/RVD

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –

Part 381-6: Cyclic arrayed waveguide grating – Category O (uncontrolled environment)

1 Scope

This part of IEC 61753 contains the minimum initial test and measurement requirements and severities which a Gaussian-passband-profile cyclic arrayed waveguide grating (AWG) for single bidirectional transmission systems satisfies in order to be categorised as meeting the requirements of IEC 61753-1 for category O (uncontrolled environment). This standard pertains to wavelength division multiplexing (WDM) network with multiple spectral-band usage. This standard covers the requirements of cyclic AWG devices with free spectral range (FSR) characteristics to ensure multiple spectral bands transmission performance. The requirement covers devices with single-mode non-connectorized pigtails and no electric circuit board.

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IEC 61300-2-9, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-9: Tests – Shock*

IEC 61300-2-14, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-14: Tests – High optical power*

IEC 61300-2-19, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-19: Tests – Damp heat (steady state)*

IEC 61300-2-22, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-22: Tests – Change of temperature*

IEC 61300-2-42, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-42: Tests – Static side load for strain relief*

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*

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