



**NSAI**  
Standards

Irish Standard  
I.S. EN 62343-1-2:2015

# Dynamic modules - Part 1-2: Performance standards - Tuneable chromatic dispersion compensator (non-connectorized)

**I.S. EN 62343-1-2:2015**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN 62343-1-2:2015 is the adopted Irish version of the European Document EN 62343-1-2:2015, Dynamic modules - Part 1-2: Performance standards - Tuneable chromatic dispersion compensator (non-connectorized)

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EUROPEAN STANDARD

**EN 62343-1-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2015

ICS 33.180.30

Supersedes EN 62343-1-2:2008

English Version

**Dynamic modules - Part 1-2: Performance standards -  
Tuneable chromatic dispersion compensator  
(non-connectorized)  
(IEC 62343-1-2:2015)**

Modules dynamiques - Partie 1-2: Normes de performance -  
Compensateur de dispersion chromatique réglable  
(non connectorisé)  
(IEC 62343-1-2:2015)

Dynamische Module - Teil 1-2: Betriebsverhaltensnormen -  
Einstellbarer Kompensator für chromatische Dispersion  
(nicht mit Steckern versehen)  
(IEC 62343-1-2:2015)

This European Standard was approved by CENELEC on 2015-07-30. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

**EN 62343-1-2:2015****European foreword**

The text of document 86C/1315/FDIS, future edition 2 of IEC 62343-1-2, prepared by SC 86C "Fibre optic systems and active devices" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62343-1-2:2015.

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) 2016-05-27
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-07-30

This document supersedes EN 62343-1-2:2008. It constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition:

- a) substantial addition of definitions and removal of type C performances.
- b) change in the title to reflect standard terminology.

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The text of the International Standard IEC 62343-1-2:2015 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 62343-1	NOTE	Harmonized as EN 62343-1 <sup>1)</sup> .
IEC 62343-1-3	NOTE	Harmonized as EN 62343-1-3.

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<sup>1)</sup> At draft stage.

## 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](http://www.cenelec.eu)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61300-1	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance	EN 61300-1	-
IEC 61300-2-14	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-14: Tests - High optical power	EN 61300-2-14	-
IEC 61300-3-2	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-2: Examinations and measurements - Polarization dependent loss in a single-mode fibre optic device	EN 61300-3-2	-
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	-

**EN 62343-1-2:2015**

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61753-021-2	-	Fibre optic interconnecting devices and passive components performance standard - Part 021-2: Grade C/3 single-mode fibre optic connectors for category C - Controlled environment	EN 61753-021-2	-
IEC 62074-1	-	Fibre optic interconnecting devices and passive components - Fibre optic WDM devices - Part 1: Generic specification	EN 62074-1	-
IEC 62343	-	Dynamic modules - General and guidance	EN 62343	-
ITU-T Recommendation G.671	-	Transmission characteristics of optical components and subsystems	-	-
ITU-T Recommendation G.692	-	Optical interfaces for multichannel systems - with optical amplifiers	-	-
ITU-T G-series Recommendations - Supplement 39	-	Optical system design and engineering considerations	-	-





**IEC 62343-1-2**

Edition 2.0 2015-06

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Dynamic modules –  
Part 1-2: Performance standards – Tuneable chromatic dispersion compensator  
(non-connectorized)**

**Modules dynamiques –  
Partie 1-2: Normes de performance – Compensateur de dispersion chromatique  
réglable (non connectorisé)**





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**IEC 62343-1-2**

Edition 2.0 2015-06

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**Dynamic modules –**

**Part 1-2: Performance standards – Tuneable chromatic dispersion compensator  
(non-connectorized)**

**Modules dynamiques –**

**Partie 1-2: Normes de performance – Compensateur de dispersion chromatique  
réglable (non connectorisé)**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **DYNAMIC MODULES –**

#### **Part 1-2: Performance standards – Tuneable chromatic dispersion compensator (non-connectorized)**

#### FOREWORD

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International Standard IEC 62343-1-2 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2007. It constitutes a technical revision.

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

- a) substantial addition of definitions and removal of type C performances.
- b) change in the title to reflect standard terminology.

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

FDIS	Report on voting
86C/1315/FDIS	86C/1336/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 in the IEC 62343 series, published under the general title *Dynamic modules*, can be found on the IEC website.

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.

## DYNAMIC MODULES –

### Part 1-2: Performance standards – Tuneable chromatic dispersion compensator (non-connectorized)

#### 1 Scope

This part of IEC 62343 contains the recommended minimum initialization test and measurement requirements and severities for optical tuneable chromatic dispersion compensators (TDC).

#### 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 61300-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 1: General and guidance*

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

IEC 61300-3-2, *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*

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*

IEC 61300-3-32, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-32: Examinations and measurements – Polarization mode dispersion measurement for passive optical components*

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*

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