

**Dynamic modules - Part 3-3: Performance specification
templates - Wavelength selective switches**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 62343-3-3:2014 sisaldab Euroopa standardi EN 62343-3-3:2014 ingliskeelset teksti.	This Estonian standard EVS-EN 62343-3-3:2014 consists of the English text of the European standard EN 62343-3-3:2014.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

**Dynamic modules - Part 3-3: Performance specification
templates - Wavelength selective switches
(IEC 62343-3-3:2014)**

Modules dynamiques - Partie 3-3: Modèles de spécification
de performance - Commutateurs sélectifs en longueur
d'onde
(CEI 62343-3-3:2014)

Dynamische Module - Vorlagen für Leistungsspezifikationen
- Teil 3-3: Wellenlängen-Wählschalter
(IEC 62343-3-3:2014)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 86C/1156/CDV, future edition 1 of IEC 62343-3-3, 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 62343-3-3:2014.

The following dates are fixed:

- latest date by which the document has to be (dop) 2015-03-10
implemented at national level by
publication of an identical national
standard or by endorsement
- latest date by which the national (dow) 2017-06-10
standards conflicting with the
document have to be withdrawn

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The text of the International Standard IEC 62343-3-3:2014 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 60793-2-50	NOTE	Harmonized as EN 60793-2-50.
IEC 60869-1	NOTE	Harmonized as EN 60869-1.
IEC 60876-1	NOTE	Harmonized as EN 60876-1.
IEC 61300 Series	NOTE	Harmonized as EN 61300 Series (partially modified).
IEC 61300-3-4	NOTE	Harmonized as EN 61300-3-4.
IEC 61300-3-20	NOTE	Harmonized as EN 61300-3-20.
IEC 61753-1	NOTE	Harmonized as EN 61753-1.
IEC 61753-081-2	NOTE	Harmonized as EN 61753-081-2.
IEC 61754 Series	NOTE	Harmonized as EN 61754 Series (partially modified).
IEC 61978-1	NOTE	Harmonized as EN 61978-1.

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61290-7-1	-	Optical amplifiers - Test methods - Part 7-1: Out-of-band insertion losses - Filtered optical power meter method	EN 61290-7-1	-
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 61300-3-6	-	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 61300-3-14	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-14: Examinations and measurements - Accuracy and repeatability of the attenuation settings of a variable attenuator	EN 61300-3-14	-
IEC 61300-3-21	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-21: Examinations and measurements - Switching time	EN 61300-3-21	-
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	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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 61753-021-2	-	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 62343-4-1 ¹⁾	-	Dynamic modules - Part 4-1: Software and hardware interface standards - 1x9 wavelength selective switch	-	-
ITU-T Recommendation G.694.1	-	Spectral grids for WDM applications: DWDM-frequency grid	-	-
ITU-T Recommendation G.Sup39	-	Optical system design and engineering considerations	-	-

¹⁾ Under consideration.

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INTRODUCTION

A wavelength selective switch (WSS) is a dynamic module (DM), which is mainly used in a reconfigurable optical add-drop multiplexer (ROADM) system to switch a particular wavelength signal to any output ports in DWDM networks. The WSS module has one input port and a plurality of output ports (i.e. $1 \times N$ WSS) and can be used in reverse, with N input ports and one output port, depending on its application. It is controlled with software, which determines any wavelength signal among a DWDM signal from one input port to switch to a particular output port in case of $1 \times N$ application.