

STN	Dynamické moduly Špecifikačná šablóna prevádzkových vlastností Časť 3-4: Optické prepínače pre skupinové vysielanie	STN EN IEC 62343-3-4 35 9258
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Dynamic modules - Part 3-4: Performance specification templates - Multicast optical switches

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/18

Obsahuje: EN IEC 62343-3-4:2018, IEC 62343-3-4:2018

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EUROPEAN STANDARD

EN IEC 62343-3-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 33.180.01, 33.180.99

English Version

**Dynamic modules - Part 3-4: Performance specification
templates - Multicast optical switches
(IEC 62343-3-4:2018)**

Modules dynamiques - Partie 3-4: Modèles de spécification
de performance - Commutateurs optiques multidiffusions
(IEC 62343-3-4:2018)

Dynamische Module - Teil 3-4: Vorlagen für
Leistungsspezifikationen - Optische Schalter für
Mehrpunktverbindung
(IEC 62343-3-4:2018)

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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62343-3-4:2018 (E)**European foreword**

The text of document 86C/1506/FDIS, future edition 1 of IEC 62343-3-4, 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 IEC 62343-3-4:2018.

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) 2019-03-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-06-01

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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 60875-1	NOTE Harmonized as EN 60875-1
IEC 60876-1:2014	NOTE Harmonized as EN 60876-1:2014 (not modified)
IEC 61000 series	NOTE Harmonized as EN 61000 series
IEC 61300 series	NOTE Harmonized as EN 61300 series
IEC 61753-1	NOTE Harmonized as EN 61753-1
IEC 61753-021-2	NOTE Harmonized as EN 61753-021-2
IEC 61753-081-2	NOTE Harmonized as EN 61753-081-2
IEC 61754 series	NOTE Harmonized as EN 61754 series
IEC 61978-1	NOTE Harmonized as EN 61978-1
IEC 62343	NOTE Harmonized as EN 62343
IEC 62343-3-3	NOTE Harmonized as EN 62343-3-3
IEC 62343-4-1	NOTE Harmonized as EN 62343-4-1

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. 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: Examination and measurements - Polarization dependent loss in a single-mode fibre optic device	EN 61300-3-2	-
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 61300-3-6	-	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 61300-3-7	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-7: Examinations and measurements - Wavelength dependence of attenuation and return loss of single mode components		-
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	-

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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 61300-3-32	-	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	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 61300-3-50	-	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -- Part 3-50: Examinations and measurements - Crosstalk for optical spatial switches	EN 61300-3-50	-
IEC 62343-1	2016	Dynamic modules - Part 1: Performance standards - General conditions	EN 62343-1	2016
IEC 62343-5-2	-	Dynamic modules - Part 5-2: Test methods - 1xN fixed-grid WSS - Dynamic crosstalk measurement	EN IEC 62343-5-2	-



IEC 62343-3-4

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Dynamic modules –
Part 3-4: Performance specification templates – Multicast optical switches**

**Modules dynamiques –
Partie 3-4: Modèles de spécification de performance – Commutateurs optiques multidiffusions**





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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Dynamic modules –

Part 3-4: Performance specification templates – Multicast optical switches

Modules dynamiques –

Partie 3-4: Modèles de spécification de performance – Commutateurs optiques multidiffusions

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CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	7
4 Performance specification templates	14
5 Electromagnetic compatibility (EMC) requirements	18
Bibliography.....	19
Figure 1 – Functional block diagram of the MCOS	8
Figure 2 – Representation of latency time, rise time, fall time, bounce time, and switching time	13
Table 1 – General performance specification template for MCOS.....	14
Table 2 – Optical performance specification template for MCOS	15
Table 3 – Electrical and communication performance specification template for MCOS.....	17
Table 4 – Mechanical performance specification template for MCOS	18

INTERNATIONAL ELECTROTECHNICAL COMMISSION

DYNAMIC MODULES –

**Part 3-4: Performance specification templates –
Multicast optical switches**

FOREWORD

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International Standard IEC 62343-3-4 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
86C/1506/FDIS	86C/1508/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document 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 document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

A multicast optical switch (MCOS) is a dynamic module (DM), which is mainly used in a reconfigurable optical add-drop multiplexer (ROADM) system to realize colourless, directionless and contentionless (CDC) function. A multicast optical switch functions as an optical switch and a non-wavelength selective fibre optic branching devices. The technical information regarding multicast optical switches and their applications in dense wavelength division multiplexing (DWDM) systems is described in IEC TR 62343-6-4.

DYNAMIC MODULES –

Part 3-4: Performance specification templates – Multicast optical switches

1 Scope

This part of IEC 62343 provides a performance specification template for multicast optical switches. The object is to provide a framework for the preparation of performance specifications or product specifications of multicast optical switches.

Specification parameters required in this document are considered as essential in the product specifications or performance specifications.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61290-7-1, *Optical amplifiers – Test methods – Part 7-1: Out-of-band insertion losses – Filtered optical power meter method*

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*

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IEC 61300-3-21, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-21: Examinations and measurements – Switching time*

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*

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– 7 –

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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IEC 62343-1:2016, *Dynamic modules – Part 1: Performance standards – General conditions*

IEC 62343-5-2, *Dynamic modules – Part 5-2: Test methods – 1 x N fixed-grid WSS – Dynamic crosstalk measurement*

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