SLOVENSKI STANDARD
SIST EN IEC 62343-3-4:2018

01-september-2018

Dinamični moduli - 3-4. del: Predloge za tehnične specifikacije - Multimedijska optična stikala (IEC 62343-3-4:2018)

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 - Interrupteur optique multidiffusion (IEC 62343-3-4:2018)

Ta slovenski standard je istoveten z: **EN IEC 62343-3-4:2018**

ICS:

33.180.01	Sistemi z optičnimi vlakni na splošno	Fibre optic systems in general

SIST EN IEC 62343-3-4:2018 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 62343-3-4

June 2018

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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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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

Ref. No. 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• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2021-06-01

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The text of the International Standard IEC 62343-3-4:2018 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 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.

Publication	Year	Title	EN/HD	Year
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	-

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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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.