

<b>STN</b>	<b>Dynamické moduly</b> <b>Časť 5-2: Skúšobné metódy</b> <b>Prepínač 1xN s pevným rastrom selektívny na</b> <b>vlnové dĺžky</b> <b>Meranie dynamického presluchu</b>	<b>STN</b> <b>EN IEC 62343-5-2</b>  35 9258
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Dynamic modules - Part 5-2: Test methods - 1xN fixed-grid WSS - Dynamic crosstalk measurement

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. 09/18

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English Version

**Dynamic modules - Part 5-2: Test methods - 1xN fixed-grid WSS  
- Dynamic crosstalk measurement  
(IEC 62343-5-2:2018)**

Modules dynamiques - Partie 5-2: Méthodes d'essai -  
Commutateurs sélectifs en longueur d'onde à grille fixe 1 x  
N - Mesure de diaphonie dynamique  
(IEC 62343-5-2:2018)

Dynamische Module - Teil 5-2: Prüfverfahren - 1xN-  
Festraster-WSS - Messung des dynamischen  
Übersprechens  
(IEC 62343-5-2:2018)

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**EN IEC 62343-5-2:2018 (E)****European foreword**

The text of document 86C/1449/CDV, future edition 1 of IEC 62343-5-2, prepared by IEC/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 62343-5-2:2018.

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- |                    |      |   |
|--------------------|------|---|
| IEC 61300-3-50     | NOTE | Harmonized as EN 61300-3-50.                    |
| IEC 62343-3-3:2014 | NOTE | Harmonized as EN 62343-3-3:2014 (not modified). |

## **Annex ZA** (normative)

### **Normative references to international publications with their corresponding European publications**

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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 61300-3-29	-	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 62343	-	Dynamic modules - General and guidance	EN 62343	-
IEC/TR 61931	-	Fibre optic - Terminology	-	-
IEC/TS 62538	-	Categorization of optical devices	-	-
ISO/IEC Guide 99	-	International vocabulary of metrology - Basic and general concepts and associated terms (VIM)	-	-



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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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

**Modules dynamiques –  
Partie 5-2: Méthodes d'essai – Commutateurs sélectifs en longueur d'onde à grille fixe 1 x N – Mesure de diaphonie dynamique**



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# INTERNATIONAL STANDARD

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

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**Partie 5-2: Méthodes d'essai – Commutateurs sélectifs en longueur d'onde à grille fixe 1 x N – Mesure de diaphonie dynamique**

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## CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references .....	6
3 Terms, definitions and abbreviated terms .....	6
3.1 Basic terms.....	6
3.2 Performance parameter terms.....	8
3.3 Abbreviated terms.....	9
4 Apparatus.....	10
4.1 Test set-up .....	10
4.2 Light source .....	10
4.2.1 Tuneable laser source (TLS).....	10
4.2.2 Broadband light source and tuneable filter.....	11
4.3 Device under test.....	11
4.4 Detector.....	12
4.4.1 Optical power meter (OPM) .....	12
4.4.2 OE converter and oscilloscope .....	12
5 Measurement condition.....	13
5.1 General conditions.....	13
5.2 Recommendations on selections of a branching port and channel.....	13
6 Procedure.....	13
6.1 Preparation.....	13
6.2 Measurement.....	14
6.2.1 Measurement of input power and insertion loss of DUT .....	14
6.2.2 Measurement of noise power for dynamic crosstalk .....	14
6.2.3 Measurement of noise power for different channel crosstalk .....	14
6.2.4 Measurement of noise power for same channel crosstalk .....	14
7 Example of transient characteristics of noise power.....	15
8 Calculation .....	17
9 Measurement report .....	19
Bibliography.....	21
Figure 1 – Noise observed in port during conducting port switching in 1 x N WSS.....	9
Figure 2 – Test set-up to measure dynamic crosstalk.....	10
Figure 3 – Transient characteristics for measurement of different channel dynamic crosstalk .....	16
Figure 4 – Transient characteristics for measurement of same channel dynamic crosstalk .....	17
Table 1 – Example of template for measurement results for different channel dynamic crosstalk .....	19
Table 2 – Example of summary of crosstalk measurement .....	20



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DYNAMIC MODULES –****Part 5-2: Test methods – 1 x N fixed-grid WSS –  
Dynamic crosstalk measurement**

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

CDV	Report on voting
86C/1449/CDV	86C/1480/RVC

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.

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## INTRODUCTION

Dynamic crosstalk is attributed to both channel crosstalk (due to same wavelength and/or other wavelengths) and port isolation. It is predicted to change during port switching operations and is a significant performance issue studied and summarized in IEC TR 62343-6-9 for  $1 \times N$  ( $N \geq 3$ ) wavelength selective switches (WSSs).

It was revealed that dynamic crosstalk exists in actual  $1 \times N$  ( $N \geq 3$ ) WSSs in IEC TR 62343-6-9 and predicted that it would influence transmission properties to some extent when a specific channel passes through the WSS.

This document standardizes the measurement method of dynamic crosstalk of  $1 \times N$  ( $N \geq 3$ ) WSSs.

This document is based on OITDA DM 01 from the Optoelectronic Industry and Technology Development Association (OITDA).

## DYNAMIC MODULES –

### Part 5-2: Test methods – 1 x $N$ fixed-grid WSS – Dynamic crosstalk measurement

#### 1 Scope

This part of IEC 62343 describes the measurement methods of dynamic crosstalk during port switching for 1 x  $N$  fixed-grid wavelength selective switches (WSSs).

The objective of this document is to establish a standard test method for different-channel dynamic crosstalk and same-channel dynamic crosstalk that occur when a particular optical channel signal is switched to the specific branching port against a common port in ITU-T 50 GHz and 100 GHz fixed grid 1 x  $N$  ( $N \geq 3$ ) WSSs.

#### 2 Normative references

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IEC TR 61931, *Fibre optic – Terminology*

IEC 62343, *Dynamic modules – General and guidance*

IEC TS 62538, *Categorization of optical devices*

ISO/IEC Guide 99, *International vocabulary of metrology – Basic and general concepts and associated terms (VIM)*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**