



IEC 61300-3-45

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# INTERNATIONAL STANDARD



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**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 3-45: Examinations and measurements – Attenuation of random mated multi-fibre connectors**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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## CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references .....	6
3 Terms and definitions .....	6
4 General description .....	6
4.1 Test methods .....	7
4.2 Precautions.....	8
5 Apparatus.....	9
5.1 Launch conditions and light source (LS).....	9
<del>4.2 Launch conditions (E).....</del>	<del>8</del>
5.2 Detector (D).....	10
<del>5.3 Analysis of results.....</del>	<del>10</del>
6 Procedure.....	10
6.1 Method 1.....	10
6.2 Method 2.....	16
7 Calculation and analysis .....	23
8 Details to be specified and reported.....	24
Annex A (normative) Requirements for launch fibre and launch plug for multimode measurement.....	25
Bibliography.....	26
<del>Figure 1 – “Reference” cord measurement – Method 1.....</del>	<del>12</del>
Figure 1 – Reference power measurement system – Method 1 .....	12
<del>Figure 2 – Test cord measurement – Method 1.....</del>	<del>12</del>
Figure 2 – Attenuation measurement system – Method 1 .....	12
Figure 3 – Test matrix and labelling for measuring Method 1 (2-fibre connector).....	14
Figure 4 – Test matrix and labelling for measuring Method 1 (4-fibre connector).....	15
Figure 5 – Test matrix and labelling for measuring Method 1 (8-, 10-, 12- and > 12-fibre connectors).....	16
<del>Figure 6 – “Reference” cord measurement (1) – Method 2.....</del>	<del>19</del>
Figure 6 – Reference power measurement system (1) – Method 2 .....	19
<del>Figure 7 – Test cord measurement (1) – Method 2.....</del>	<del>19</del>
Figure 7 – Attenuation measurement system (1) – Method 2.....	19
<del>Figure 8 – “Reference” cord measurement (2) – Method 2.....</del>	<del>20</del>
Figure 8 – Reference power measurement system (2) – Method 2 .....	20
<del>Figure 9 – Test cord measurement (2) – Method 2.....</del>	<del>20</del>
Figure 9 – Attenuation measurement system (2) – Method 2.....	20
Figure 10 – Test matrix and labelling for measuring Method 2 (2-fibre connector).....	21
Figure 11 – Test matrix and labelling for measuring Method 2 (4-fibre connector).....	22
Figure 12 – Test matrix and labelling for measuring Method 2 (8-, 10-, 12- and > 12-fibre connectors).....	23
Figure A.1 – Attenuation measurement system .....	25
Table 1 – Sample size for Method 1 .....	8

Table 2 – Sample size for Method 2 ..... 8

Table 3 – Preferred source conditions ..... 9

Table A.1 – Requirements for launch fibre and launch plug ..... 25

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –**

#### **Part 3-45: Examinations and measurements – Attenuation of random mated multi-fibre connectors**

#### FOREWORD

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IEC 61300-3-45 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics. It is an International Standard.

This second edition cancels and replaces the first edition published in 2011. This edition constitutes a technical revision.

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

- a) addition of sample size for > 12-fibre connector measurement;
- b) inclusion of guidance for multimode measurement.

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

Draft	Report on voting
86B/4757/FDIS	86B/4774/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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# FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –

## Part 3-45: Examinations and measurements – Attenuation of random mated multi-fibre connectors

### 1 Scope

The purpose of this part of IEC 61300 is to describe the procedure required to measure the statistical distribution and mean attenuation for random mated optical connectors with physical contact (PC) and angled physical contact (APC) polished ~~1-row~~ multi-fibre rectangular ferrules as defined in the IEC 61754 series. This measurement method is applicable to cable assemblies.

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

IEC 61300-3-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-1: Examinations and measurements – Visual examination*

IEC 61300-3-35, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-35: Examinations and measurements – Visual inspection of fibre optic ~~connector endface visual and automated inspection~~ connectors and fibre-stub transceivers*

IEC 61754 (all parts), *Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces*

IEC 63267 (all parts), *Fibre optic interconnecting devices and passive components – Connector optical interfaces for enhanced macro bend loss multimode fibres*

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 3-45: Examinations and measurements – Attenuation of random mated multi-fibre connectors**

**Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –  
Partie 3-45: Examens et mesures – Affaiblissement dû à l'accouplement sans choix préalable de connecteurs multifibres**

## CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 General description .....	6
4.1 Test methods .....	6
4.2 Precautions.....	7
5 Apparatus.....	7
5.1 Launch conditions and light source (LS).....	7
5.2 Detector (D).....	8
6 Procedure.....	9
6.1 Method 1.....	9
6.2 Method 2.....	11
7 Calculation and analysis .....	15
8 Details to be specified and reported.....	15
Annex A (normative) Requirements for launch fibre and launch plug for multimode measurement.....	16
Bibliography.....	17
Figure 1 – Reference power measurement system – Method 1 .....	9
Figure 2 – Attenuation measurement system – Method 1 .....	9
Figure 3 – Test matrix and labelling for measuring Method 1 (2-fibre connector).....	10
Figure 4 – Test matrix and labelling for measuring Method 1 (4-fibre connector).....	11
Figure 5 – Test matrix and labelling for measuring Method 1 (8-, 10-, 12- and > 12-fibre connectors).....	11
Figure 6 – Reference power measurement system (1) – Method 2 .....	12
Figure 7 – Attenuation measurement system (1) – Method 2 .....	12
Figure 8 – Reference power measurement system (2) – Method 2 .....	13
Figure 9 – Attenuation measurement system (2) – Method 2.....	13
Figure 10 – Test matrix and labelling for measuring Method 2 (2-fibre connector).....	14
Figure 11 – Test matrix and labelling for measuring Method 2 (4-fibre connector).....	14
Figure 12 – Test matrix and labelling for measuring Method 2 (8-, 10-, 12- and > 12-fibre connectors).....	15
Figure A.1 – Attenuation measurement system .....	16
Table 1 – Sample size for Method 1 .....	6
Table 2 – Sample size for Method 2.....	7
Table 3 – Preferred source conditions.....	8
Table A.1 – Requirements for launch fibre and launch plug.....	16



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –****Part 3-45: Examinations and measurements –  
Attenuation of random mated multi-fibre connectors**

## FOREWORD

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## Part 3-45: Examinations and measurements – Attenuation of random mated multi-fibre connectors

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IEC 61300-3-35, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-35: Examinations and measurements – Visual inspection of fibre optic connectors and fibre-stub transceivers*

IEC 61754 (all parts), *Fibre optic interconnecting devices and passive components – Fibre optic connector interfaces*

IEC 63267 (all parts), *Fibre optic interconnecting devices and passive components – Connector optical interfaces for enhanced macro bend loss multimode fibres*

## SOMMAIRE

AVANT-PROPOS .....	19
1 Domaine d'application .....	21
2 Références normatives .....	21
3 Termes et définitions .....	21
4 Description générale.....	22
4.1 Méthodes d'essai .....	22
4.2 Précautions.....	23
5 Appareillage .....	24
5.1 Conditions d'injection et source de rayonnement lumineux (LS, Light Source) .....	24
5.2 Détecteur (D) .....	25
6 Procédure.....	25
6.1 Méthode 1.....	25
6.2 Méthode 2.....	29
7 Calcul et analyse .....	34
8 Détails à spécifier et à rapporter .....	34
Annexe A (normative) Exigences relatives à la fibre d'injection et à la fiche d'injection pour les mesures multimodales.....	35
Bibliographie.....	36
Figure 1 – Système de mesure de la puissance de référence – Méthode 1 .....	26
Figure 2 – Système de mesure de l'affaiblissement – Méthode 1 .....	26
Figure 3 – Matrice d'essai et étiquetage pour la Méthode 1 de mesure (connecteur à 2 fibres) .....	28
Figure 4 – Matrice d'essai et étiquetage pour la Méthode 1 de mesure (connecteur à 4 fibres) .....	28
Figure 5 – Matrice d'essai et étiquetage pour la Méthode 1 de mesure (connecteurs à 8, 10, 12 et plus de 12 fibres) .....	29
Figure 6 – Système de mesure de la puissance de référence (1) – Méthode 2 .....	30
Figure 7 - Système de mesure de l'affaiblissement (1) – Méthode 2.....	30
Figure 8 – Système de mesure de la puissance de référence (2) – Méthode 2 .....	31
Figure 9 – Système de mesure de l'affaiblissement (2) – Méthode 2 .....	32
Figure 10 – Matrice d'essai et étiquetage pour la Méthode 2 de mesure (connecteur à 2 fibres) .....	33
Figure 11 – Matrice d'essai et étiquetage pour la Méthode 2 de mesure (connecteur à 4 fibres) .....	33
Figure 12 – Matrice d'essai et étiquetage pour la Méthode 2 de mesure (connecteurs à 8, 10, 12 et plus de 12 fibres) .....	34
Figure A.1 – Système de mesure de l'affaiblissement .....	35
Tableau 1 – Nombre d'échantillons pour la Méthode 1 .....	23
Tableau 2 – Nombre d'échantillons pour la Méthode 2 .....	23
Tableau 3 – Conditions préférentielles pour la source .....	24
Tableau A.1 – Exigences relatives à la fibre d'injection et à la fiche d'injection .....	35

## COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

**DISPOSITIFS D'INTERCONNEXION ET COMPOSANTS PASSIFS  
FIBRONIQUES – PROCÉDURES FONDAMENTALES D'ESSAIS ET DE  
MESURES –****Partie 3-45: Examens et mesures – Affaiblissement dû à l'accouplement  
sans choix préalable de connecteurs multifibres**

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L'IEC 61300-3-45 a été établie par le sous-comité 86B: Dispositifs d'interconnexion et composants passifs à fibres optiques, du comité d'études 86 de l'IEC: Fibres optiques. Il s'agit d'une Norme internationale.

Cette seconde édition annule et remplace la première édition parue en 2011. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) ajout du nombre d'échantillons pour la mesure de connecteurs à plus de 12 fibres;
- b) ajout de recommandations pour les mesures multimodales.

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
86B/4757/FDIS	86B/4774/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). Les principaux types de documents développés par l'IEC sont décrits plus en détail sous [www.iec.ch/publications](http://www.iec.ch/publications).

Une liste de toutes les parties de la série IEC 61300, publiées sous le titre général *Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures*, se trouve sur le site web de l'IEC.

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## **DISPOSITIFS D'INTERCONNEXION ET COMPOSANTS PASSIFS FIBRONIQUES – PROCÉDURES FONDAMENTALES D'ESSAIS ET DE MESURES –**

### **Partie 3-45: Examens et mesures – Affaiblissement dû à l'accouplement sans choix préalable de connecteurs multifibres**

#### **1 Domaine d'application**

L'objet de la présente partie de l'IEC 61300 est de décrire la procédure exigée pour mesurer la distribution statistique et l'affaiblissement moyen des connecteurs optiques accouplés sans choix préalable avec férules rectangulaires polies multifibres à contact physique (PC), et à contact physique avec angle (APC), comme défini dans la série IEC 61754. Cette méthode de mesure s'applique aux câbles assemblés.

#### **2 Références normatives**

Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 61300-1, *Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures – Partie 1: Généralités et lignes directrices*

IEC 61300-3-1, *Dispositifs d'interconnexion et composants passifs à fibres optiques – Méthodes fondamentales d'essais et de mesures – Partie 3-1: Examens et mesures – Examen visuel*

IEC 61300-3-35, *Dispositifs d'interconnexion et composants passifs à fibres optiques – Procédures fondamentales d'essais et de mesures – Partie 3-35: Examens et mesures – Examen visuel des connecteurs à fibres optiques et des émetteurs-récepteurs à embase fibrée*

IEC 61754 (toutes les parties), *Dispositifs d'interconnexion et composants passifs fibroniques – Interfaces de connecteurs fibroniques*

IEC 63267 (toutes les parties), *Fibre optic interconnecting devices and passive components – Connector optical interfaces for enhanced macro bend loss multimode fibres (disponible en anglais seulement)*