

STN	Optické káble Časť 1-133: Kmeňová špecifikácia Základné skúšobné postupy pre optické káble Mechanické skúšobné metódy Viacnásobné navíjanie a odvíjanie kábla, metóda E33	STN EN IEC 60794-1-133 35 9223
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Optical fibre cables - Part 1-133: Generic specifications - Basic optical cable test procedures - Mechanical test methods - Multiple cable coiling and uncoiling performance, Method E33

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. 11/25

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English Version

Optical fibre cables - Part 1-133: Generic specifications - Basic optical cable test procedures - Mechanical test methods - Multiple cable coiling and uncoiling performance, Method E33 (IEC 60794-1-133:2025)

Câbles à fibres optiques - Partie 1-133 : Spécifications génériques - Procédures fondamentales d'essais des câbles optiques - Méthodes d'essais mécaniques - Performances d'enroulement et de déroulement multiples des câbles, Méthode E33 (IEC 60794-1-133:2025)

Lichtwellenleiterkabel - Teil 1-133: Fachgrundspezifikationen - Grundlegende Prüfverfahren für optische Kabel - Mechanische Prüfverfahren - Mehrfaches Auf- und Abwickelverhalten von Kabeln, Verfahren E33 (IEC 60794-1-133:2025)

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EN IEC 60794-1-133:2025 (E)**European foreword**

The text of document 86A/2568/FDIS, future edition 1 of IEC 60794-1-133, prepared by SC 86A "Fibres and cables" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60794-1-133:2025.

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IEC 60794-1-21:2015 NOTE Approved as EN 60794-1-21:2015 (not modified)

IEC 60794-1-21:2015/A1:2020 NOTE Approved as EN 60794-1-21:2015/A1:2020 (not modified)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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NOTE 1 Where 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.cencenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60793-1-46	-	Optical fibres - Part 1-46: Measurement methods and test procedures - Monitoring of changes in attenuation	EN IEC 60793-1-46	-
IEC 60794-1-1	-	Optical fibre cables - Part 1-1: Generic specification - General	EN IEC 60794-1-1	-
IEC 60794-1-2	-	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance	EN IEC 60794-1-2	-



IEC 60794-1-133

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibre cables -

**Part 1-133: Generic specifications - Basic optical cable test procedures -
Mechanical test methods - Multiple cable coiling and uncoiling performance,
Method E33**

Câbles à fibres optiques -

**Partie 1-133 : Spécifications génériques - Procédures fondamentales d'essais
des câbles optiques - Méthodes d'essais mécaniques - Performances
d'enroulement et de déroulement multiples des câbles, Méthode E33**

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CONTENTS

FOREWORD	2
INTRODUCTION	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Method E33 – Multiple cable coiling and uncoiling performance	5
4.1 Objective	5
4.2 Sample	6
4.3 Apparatus	6
4.4 Procedure	6
4.5 Requirements	7
4.6 Details to be specified	7
4.7 Details to be reported	7
Annex A (informative) Examples of practical test set-ups	8
A.1 Example of a test set-up with a sample length uncoiled from a transport cable reel	8
A.2 Example of a test set-up with a cut sample length	9
Bibliography	11
 Figure A.1 – Example of a test set-up with uncoiled sample length from a transport cable reel	8
Figure A.2 – Example of a test set-up with sample length from transport cable reel coiled on test cable reel	9
Figure A.3 – Example of a test set-up with cut and uncoiled sample length	9
Figure A.4 – Example of a test set-up with cut and coiled sample length on test cable reel	10

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**Optical fibre cables -
Part 1-133: Generic specifications - Basic optical cable test procedures -
Mechanical test methods - Multiple cable coiling and uncoiling
performance, Method E33**

FOREWORD

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IEC 60794-1-133 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

This first edition of IEC 60794-1-133 cancels and replaces Method E33 of the second edition of the IEC 60794-1-21:2015/AMD1:2020, which will be withdrawn. It includes an editorial revision, based on the new structure and numbering system for optical fibre test methods.

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

Draft	Report on voting
86A/2568/FDIS	86A/2590/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.

A list of all parts in the IEC 60794 series, published under the general title *Optical fibre cables*, can be found on the IEC website.

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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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- revised.

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INTRODUCTION

This document defines the test Method E33, to demonstrate the ability of an optical fibre cable to withstand multiple coiling and uncoiling on a specified diameter of cable reel.

The used cable reels for cables for mobile rapid or multiple deployment have often a core diameter significant smaller than those of the transport cable reels after manufacturing. This test method determines the performance of such cables when they are coiled and uncoiled multiple times on a cable reel.

The mechanical tests contained in IEC 60794-1-21:2015 and IEC 60794-1-21:2015/AMD1:2020 will be individually numbered in the IEC 60794-1-1xx series. Each test method is now considered to be an individual document rather than part of a multi-test method compendium. Full cross-reference details are given in IEC 60794-1-2.

The numbering of this test method continues the E-series numbering sequence of IEC 60794-1-21:2015 and IEC 60794-1-21:2015/AMD1:2020. This document cancels and replaces Method E33 of IEC 60794-1-21:2015/AMD1:2020, which will be withdrawn. It includes an editorial revision, based on the new structure and numbering system for optical fibre cable test methods. Additionally, editorial changes were implemented to improve the content, for example inclusion of a new subclause 4.7 for details to be reported and an informative Annex A with examples of practical test set-ups.

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1 Scope

This part of IEC 60794 defines the test procedure to demonstrate the ability of an optical fibre cable to withstand multiple coiling and uncoiling on a specified diameter of cable reel.

This test is primarily intended to evaluate the performance of cables for mobile rapid or multiple deployment.

See IEC 60794-1-2 for a reference guide to test methods of all types and for general requirements.

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.

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IEC 60794-1-1, *Optical fibre cables - Part 1-1: Generic specification - General*

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