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Optical fibre cables - Part 1-215: Generic specification - Basic optical cable test procedures - Environmental test methods - Cable external freezing test, Method F15

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EUROPEAN STANDARD
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EN IEC 60794-1-215

August 2020

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English Version

Optical fibre cables - Part 1-215: Generic specification - Basic
optical cable test procedures - Environmental test methods -
Cable external freezing test, Method F15
(IEC 60794-1-215:2020)

Câbles à fibres optiques - Partie 1-215: Spécification
généérique - Procédures fondamentales d'essais des câbles
optiques - Méthodes d'essais d'environnement - Essai de
résistance au gel en extérieur des câbles, méthode F15
(IEC 60794-1-215:2020)

Lichtwellenleiterkabel - Teil 1-215: Fachgrundspezifikation -
Grundlegende Prüfverfahren für Lichtwellenleiterkabel -
Umweltpreuverfahren - Prüfung des äußeren Gefrierens von
Kabeln, Verfahren F15
(IEC 60794-1-215:2020)

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European foreword

The text of document 86A/2008/FDIS, future edition 1 of IEC 60794-1-215, 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 60794-1-215:2020.

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(normative)**Normative references to international 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.cenelec.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 optical transmittance	EN 60793-1-46	-
IEC 60794-1-1	-	Optical fibre cables - Part 1-1: Generic specification - General	EN 60794-1-1	-
IEC 60794-1-2	-	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance	-	-

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Optical fibre cables –
Part 1-215: Generic specification – Basic optical cable test procedures –
Environmental test methods – Cable external freezing test, Method F15**

**Câbles à fibres optiques –
Partie 1-215: Spécification générique – Procédures fondamentales d'essais des
câbles optiques – Méthodes d'essais d'environnement – Essai de résistance au
gel en extérieur des câbles, méthode F15**





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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Optical fibre cables –
Part 1-215: Generic specification – Basic optical cable test procedures –
Environmental test methods – Cable external freezing test, Method F15**

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câbles optiques – Méthodes d'essais d'environnement – Essai de résistance au
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 1-215: Generic specification –
Basic optical cable test procedures –
Environmental test methods –
Cable external freezing test, Method F15**

FOREWORD

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International Standard IEC 60794-1-215 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics.

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

FDIS	Report on voting
86A/2008/FDIS	86A/2026/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 60794 series, published under the general title *Optical fibre cables*, can be found on the IEC website.

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INTRODUCTION

This part of IEC 60794 defines a test method to determine the ability of a cable to withstand the effects of freezing water that can immediately surround the optical fibre cable sheath by observing any changes in the physical appearance of the sheath, or in the measured cable optical attenuation. The cable external freezing test in a rigid conduit (duct) is an item of F15 under consideration in IEC 60794-1-22:2017.

This document includes method F15 of IEC 60794-1-22:2017 as F15A: Cable external freezing test for a buried cable, as in wet earth or water. There is no technical change in F15A. F15B is a new introduced method. The numbering of these tests continues the F-series numbering sequence of IEC 60794-1-22:2017.

The number of IEC 60794-1-215 is in line with the new numbering system of test methods as planned in IEC 60794-1-2¹.

¹ Fifth edition under preparation. Stage at the time of publication: IEC/CC 60794-1-2:2020.