



NSAI
Standards

Irish Standard
I.S. EN IEC 60794-1-220:2022

Optical fibre cables - Part 1-220: Generic specification - Basic optical cable test procedures - Environmental test methods - Salt spray corrosion test, method F20

I.S. EN IEC 60794-1-220:2022

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National Foreword

I.S. EN IEC 60794-1-220:2022 is the adopted Irish version of the European Document EN IEC 60794-1-220:2022, Optical fibre cables - Part 1-220: Generic specification - Basic optical cable test procedures - Environmental test methods - Salt spray corrosion test, method F20

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60794-1-220

April 2022

ICS 33.180.10

English Version

**Optical fibre cables - Part 1-220: Generic specification - Basic
optical cable test procedures - Environmental test methods - Salt
spray corrosion test, method F20
(IEC 60794-1-220:2022)**

Câbles à fibres optiques - Partie 1-220: Spécification
générique - Procédures fondamentales d'essais des câbles
optiques - Méthodes d'essais environnementaux - Essai de
corrosion au brouillard salin, méthode F20
(IEC 60794-1-220:2022)

Lichtwellenleiterkabel - Teil 1-22: Fachgrundspezifikation -
Grundlegende Prüfverfahren für Lichtwellenleiterkabel -
Prüfverfahren zur Umweltprüfung, Verfahren F20
(IEC 60794-1-220:2022)

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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

EN IEC 60794-1-220:2022 (E)

European foreword

The text of document 86A/2179/FDIS, future edition 1 of IEC 60794-1-220, 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 60794-1-220:2022.

The following dates are fixed:

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Annex ZA

(normative)

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-11	-	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist	EN IEC 60068-2-11 -	

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IEC 60794-1-220

Edition 1.0 2022-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibre cables –

**Part 1-220: Generic specification – Basic optical cable test procedures –
Environmental test methods – Salt spray corrosion test, method F20**

Câbles à fibres optiques –

**Partie 1-220: Spécification générique – Procédures fondamentales d'essais
des câbles optiques – Méthodes d'essais environnementaux – Essai de
corrosion au brouillard salin, méthode F20**



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IEC 60794-1-220

Edition 1.0 2022-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Optical fibre cables –

**Part 1-220: Generic specification – Basic optical cable test procedures –
Environmental test methods – Salt spray corrosion test, method F20**

Câbles à fibres optiques –

**Partie 1-220: Spécification générique – Procédures fondamentales d'essais
des câbles optiques – Méthodes d'essais environnementaux – Essai de
corrosion au brouillard salin, méthode F20**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPTICAL FIBRE CABLES –

**Part 1-220: Generic specification –
Basic optical cable test procedures – Environmental test methods –
Salt spray corrosion test, method F20**

FOREWORD

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IEC 60794-1-220 has been prepared by subcommittee 86A: Fibres and cables, of IEC technical committee 86: Fibre optics. It is an International Standard.

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

Draft	Report on voting
86A/2179/FDIS	86A/2188/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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under 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.

OPTICAL FIBRE CABLES –

Part 1-220: Generic specification – Basic optical cable test procedures – Environmental test methods – Salt spray corrosion test, method F20

1 Scope

This part of IEC 60794 defines a test standard to determine the ability of an optical fibre cable to withstand the effects of a controlled salt atmosphere.

This document applies to optical ground wire (OPGW) and optical phase conductor (OPPC). An optical ground wire and optical phase conductor are made of multiple metallic wires that are exposed to the environment without any insulating or protective sheath and contain optical fibres.

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 60068-2-11, *Environmental testing – Part 2-11: Tests – Test Ka: Salt mist*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Salt spray corrosion test

4.1 Object

The object of this test is to determine any effects of a controlled salt atmosphere on a cable.

4.2 Sample

Three cable samples of $75 \text{ cm} \pm 5 \text{ cm}$ shall be cut from the reel. Heat shrink tubing or silicone seal shall be placed over both ends of the cable to a distance not to exceed $7,5 \text{ cm} \pm 0,5 \text{ cm}$ from either end of the cable sample.

4.3 Apparatus

The salt-spray testing apparatus shall comply with IEC 60068-2-11.

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