



**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

**EN IEC 60794-1-220**

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2022

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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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Comité Européen de Normalisation Electrotechnique  
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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## **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:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-01-08
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## Annex ZA (normative)

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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 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**

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**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  
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corrosion au brouillard salin, méthode F20**





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**IEC 60794-1-220**

Edition 1.0 2022-03

# **INTERNATIONAL STANDARD**

# **NORME INTERNATIONALE**

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**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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corrosion au brouillard salin, méthode F20**

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## CONTENTS

FOREWORD .....	3
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 Salt spray corrosion test .....	5
4.1 Object .....	5
4.2 Sample .....	5
4.3 Apparatus .....	5
4.4 Procedure .....	6
4.4.1 General .....	6
4.4.2 Pre-test cleaning and handling .....	6
4.4.3 Conditioning .....	6
4.4.4 Post-test cleaning and handling .....	6
4.4.5 Visual inspection .....	6
4.5 Requirements .....	7

## 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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://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](http://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 cm ± 5 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 cm ± 0,5 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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