Irish Standard
I.S. EN 50551-2:2013

Simplex and duplex cables to be used for cords -- Part 2: Detailed specification and minimum requirements for a 3,0 mm simplex ruggedised single mode fibre cable to be used for patchcords/cords category U

I.S. EN 50551-2:2013

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English version

Simplex and duplex cables to be used for cords - Part 2: Detailed specification and minimum requirements for a 3,0 mm simplex ruggedised single mode fibre cable to be used for patchcords/cords category U

Câbles simplex et duplex destinés à être utilisés en tant que cordons - Partie 2: Spécifications particulières et exigences minimales relatives aux câbles à fibres optiques unimodales renforcés simplex de 3,0 mm pour usage en cordons / cordons de brassage, en Catégorie U

Simplex- und Duplex-Kabel, die in konfektionierten Leitungen benutzt werden - Teil 2: Bauartspezifikation und Mindestanforderungen für ein 3,0 mm-Simplex-Einmodenfaserkabel mit zusätzlichem Schutz für konfektionierte Kabel/Leitungen der Kategorie U

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

This document (EN 50551-2:2013) has been prepared by CLC/TC 86A "Optical fibres and optical fibre cables".

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2014-08-19
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2016-08-19

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EN 50551 is composed with the following parts:

- EN 50551-1, *Simplex and duplex cables to be used for cords — Part 1: Blank Detail Specification and minimum requirements*;

- EN 50551-2, *Simplex and duplex cables to be used for cords — Part 2: Detailed specification and minimum requirements for a 3,0 mm simplex ruggedised single mode fibre cable to be used for patchcords/cords category U*.

This European Standard was jointly prepared by the Technical Committee CLC/TC 86A "Optical fibres and optical fibre cables", and the Technical Committee CLC/TC 86BXA "Fibre optic interconnect, passive and connectorised components".

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1 Scope

This European Standard describes the minimum set of requirements that a simplex ruggedised single mode fibre cable shall meet in order to allow termination with a connector for use in category U (Uncontrolled Environment).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 60793-1-20, *Optical fibres — Part 1-20: Measurement methods and test procedures — Fibre geometry (IEC 60793-1-20)*

EN 60793-1-21, *Optical fibres — Part 1-21: Measurement methods and test procedures — Coating geometry (IEC 60793-1-21)*

EN 60793-1-40, *Optical fibres — Part 1-40: Measurement methods and test procedures — Attenuation (IEC 60793-1-40)*

EN 60793-1-44, *Optical fibres — Part 1-44: Measurement methods and test procedures — Cut-off wavelength (IEC 60793-1-44)*

EN 60793-1-45, *Optical fibres — Part 1-45: Measurement methods and test procedures — Mode field diameter (IEC 60793-1-45)*

EN 60793-2-50, *Optical fibres — Part 2-50: Product specifications — Sectional specification for class B single-mode fibres (IEC 60793-2-50)*

EN 60794-1 (all parts), *Optical fibre cables (IEC 60794-1, all parts)*

EN 60794-2 (all parts), *Optical fibre cables — Part 2: Indoor cables (IEC 60794-2, all parts)*

EN 60794-2-50:2008, *Optical fibre cables — Part 2-50: Indoor cables — Family specification for simplex and duplex cables for use in terminated cable assemblies (IEC 60794-2-50:2008)*

EN 60811-201, *Electric and optical fibre cables — Test methods for non-metallic materials — Part 201: General tests — Measurement of insulation thickness (IEC 60811-201)*

EN 60811-203, *Electric and optical fibre cables — Test methods for non-metallic materials — Part 203: General tests — Measurement of overall dimensions (IEC 60811-203)*

EN 61034-1, *Measurement of smoke density of cables burning under defined conditions — Part 1: Test apparatus (IEC 61034-1)*

EN 61034-2, *Measurement of smoke density of cables burning under defined conditions — Part 2: Test procedure and requirements (IEC 61034-2)*

EN 61753-1, *Fibre optic interconnecting devices and passive components performance standard — Part 1: General and guidance for performance standards (IEC 61753-1)*

IEC 60332-3-25, *Tests on electric and optical fibre cables under fire conditions — Part 3-25: Test for vertical flame spread of vertically-mounted bunched wires or cables — Category D*

IEC 60754-1, *Test on gases evolved during combustion of materials from cables — Part 1: Determination of the halogen acid gas content*

IEC 60754-2, *Test on gases evolved during combustion of materials from cables — Part 2: Determination of acidity (by pH measurement) and conductivity*