

Irish Standard I.S. EN 62077:2016

Fibre optic interconnecting devices and passive components - Fibre optic circulators - Generic specification

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I.S. EN 62077:2016

2016-03-10

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National Foreword

I.S. EN 62077:2016 is the adopted Irish version of the European Document EN 62077:2016, Fibre optic interconnecting devices and passive components - Fibre optic circulators - Generic specification

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EUROPEAN STANDARD

EN 62077

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2016

ICS 33.180.20

Supersedes EN 62077:2010

English Version

Fibre optic interconnecting devices and passive components -Fibre optic circulators - Generic specification (IEC 62077:2015)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Circulateurs fibroniques - Spécification générique (IEC 62077:2015)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Lichtwellenleiterzirkulatoren -Fachgrundspezifikation (IEC 62077:2015)

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of document 86B/3862/CDV, future edition 3 of IEC 62077, prepared by SC 86B "Fibre optic interconnecting devices and passive components" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62077:2016.

The following dates are fixed:

- latest date by which the document has to be implemented at (dop) 2016-09-09 national level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with (dow) 2016-12-09 the document have to be withdrawn

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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60068	NOTE	Harmonized in EN 60068 series.
IEC 61300-2	NOTE	Harmonized in EN 61300-2 series.
IEC 61300-3	NOTE	Harmonized in EN 61300-3 series.
IEC 61753	NOTE	Harmonized in EN 61753 series.
IEC 61754	NOTE	Harmonized in EN 61754 series.
IEC 61978-1	NOTE	Harmonized as EN 61978-1.
IEC 62005	NOTE	Harmonized in EN 62005 series.

EN 62077:2016

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When 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>	EN/HD	<u>Year</u>
IEC 60027	series	Letter symbols to be used in electrical technology	EN 60027	series
IEC 60050-731	-	International Electrotechnical Vocabulary - Chapter 731: Optical fibre communication	-	-
IEC 60617	-	Graphical symbols for diagrams	-	-
IEC 60695-11-5	-	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	EN 60695-11-5	-
IEC 60825	series	Safety of laser products	EN 60825	series
IEC 61300	series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures	EN 61300	series
IEC/TR 61930	-	Fibre optic graphical symbology	-	-
ISO 129-1	-	Technical drawings - Indication of dimensions and tolerances - Part 1: General principles	-	-
ISO 286-1	-	Geometrical product specifications (GPS) - ISO code system for tolerances on linear sizes - Part 1: Basis of tolerances, deviations and fits	EN ISO 286-1	-
ISO 1101	-	Geometrical product specifications (GPS) - Geometrical tolerancing - Tolerances of form, orientation, location and run-out	EN ISO 1101	-
ISO 8601	-	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-

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IEC 62077

Edition 3.0 2015-11

INTERNATIONAL STANDARD

Fibre optic interconnecting devices and passive components – Fibre optic circulators – Generic specification





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IEC 62077

Edition 3.0 2015-11

INTERNATIONAL STANDARD

Fibre optic interconnecting devices and passive components – Fibre optic circulators – Generic specification

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC CIRCULATORS – GENERIC SPECIFICATION

FOREWORD

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International Standard IEC 62077 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

This third edition cancels and replaces the second edition published in 2010. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) harmonization of some terms and definitions with other generic specifications,
- b) deletion of assessment level.

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The text of this standard is based on the following documents:

CDV	Report on voting
86B/3862/CDV	86B/3918/RVC

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- · reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – FIBRE OPTIC CIRCULATORS – GENERIC SPECIFICATION

1 Scope

This International Standard applies to circulators used in the field of fibre optics bearing all of the following features:

- they are non-reciprocal optical devices, in which each port is either an optical fibre or fibre optic connector;
- they are passive devices in accordance with the categorization and definition provided in IEC TS 62538;
- they have three or more ports for directionally transmitting optical power.

An example of optical circulator technology is described in Annex A.

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.

IEC 60027 (all parts), Letter symbols to be used in electrical technology

IEC 60050-731, International Electrotechnical Vocabulary – Chapter 731: Optical fibre communication (available at http://www.electropedia.org)

IEC 60617, Graphical symbols for diagrams (available at http://std.iec.ch/iec60617)

IEC 60695-11-5, Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance

IEC 60825 (all parts), Safety of laser products

IEC 61300 (all parts), Fibre optic interconnecting devices and passive components

IEC TR 61930, Fibre optic graphical symbology

ISO 129-1, Technical drawings – Indication of dimensions and tolerances – Part 1: General principles

ISO 286-1, Geometrical product specifications (GPS) – ISO code system for tolerances on linear sizes – Part 1: Basis of tolerances, deviations and fits

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