

Fibre optic communication subsystem test procedures -  
Part 1-3: General communication subsystems -  
Measurement of central wavelength, spectral width  
and additional spectral characteristics

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 61280-1-3:2021 sisaldab Euroopa standardi EN IEC 61280-1-3:2021 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 61280-1-3:2021 consists of the English text of the European standard EN IEC 61280-1-3:2021.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 27.08.2021.	Date of Availability of the European standard is 27.08.2021.
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English Version

**Fibre optic communication subsystem test procedures - Part 1-3:  
General communication subsystems - Measurement of central  
wavelength, spectral width and additional spectral characteristics  
(IEC 61280-1-3:2021)**

Procédures d'essai des sous-systèmes de  
télécommunication à fibres optiques - Partie 1-3: Sous-  
systèmes généraux de télécommunication - Mesure de la  
longueur d'onde centrale, de la largeur spectrale et des  
caractéristiques spectrales supplémentaires  
(IEC 61280-1-3:2021)

Lichtwellenleiter-Kommunikationsuntersysteme -  
Grundlegende Prüfverfahren - Teil 1-3: Prüfverfahren für  
allgemeine Kommunikationsuntersysteme - Messung von  
Mittelwellenlänge und Spektralbreite  
(IEC 61280-1-3:2021)

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## European foreword

The text of document 86C/1701/CDV, future edition 3 of IEC 61280-1-3, prepared by SC 86C “Fibre optic systems and active devices” of IEC/TC 86 “Fibre optics” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61280-1-3:2021.

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) 2022-05-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-08-09

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IEC 62522 NOTE Harmonized as EN 62522

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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.

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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60825-1	-	Safety of laser products - Part 1: Equipment classification and requirements	EN 60825-1	-
IEC 62129-1	-	Calibration of wavelength/optical frequency measurement instruments - Part 1: Optical spectrum analyzers	EN 62129-1	-
IEC 62129-2	-	Calibration of wavelength/optical frequency measurement instruments - Part 2: Michelson interferometer single wavelength meters	EN 62129-2	-

# INTERNATIONAL STANDARD



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IEC Central Office  
3, rue de Varembe  
CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
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# INTERNATIONAL STANDARD



**Fibre optic communication subsystem test procedures –  
Part 1-3: General communication subsystems – Measurement of central  
wavelength, spectral width and additional spectral characteristics**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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IEC 61280-1-3 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics. It is an International Standard.

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) addition of measurement of signal-to-source spontaneous emission ratio in 8.9;
- b) change of document title to reflect the additional measurement;
- c) additional information on the resolution bandwidth used in the measurement of the side-mode suppression ratio in 8.8;
- d) use of a calibrated optical wavelength meter for accurate wavelength measurements of single-longitudinal mode lasers.

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

Draft	Report on voting
86C/1701/CDV	86C/1717/RVC

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).

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