



BSI Standards Publication

Fibre optic communication subsystem test procedures

Part 1-3: General communication subsystems — Measurement of central wavelength, spectral width and additional spectral characteristics

National foreword

This British Standard is the UK implementation of EN IEC 61280-1-3:2021. It is identical to IEC 61280-1-3:2021. It supersedes BS EN 61280-1-3:2010, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GEL/86/3, Fibre optic systems and active devices.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Amendments/corrigenda issued since publication

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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 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

European foreword

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- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-08-09

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

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.

<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	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FIBRE OPTIC COMMUNICATION SUBSYSTEM TEST PROCEDURES –**Part 1-3: General communication subsystems – Measurement of central wavelength, spectral width and additional spectral characteristics**

FOREWORD

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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.