

Fibre optic terminus sets —

Part 1: Generic specification

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ICS 33.180.10

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National foreword

This British Standard is the English language version of EN 61269-1:1997. It is identical with IEC 1269-1:1994.

The UK participation in its preparation was entrusted by Technical Committee EPL/86, Fibre optics, to Subcommittee EPL/86/2, Interconnecting devices and passive components, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

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The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or using the “Find” facility of the BSI Standards Electronic Catalogue.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 16, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date	Comments

This British Standard, having been prepared under the direction of the Electrotechnical Sector Board, was published under the authority of the Standards Board and comes into effect on 15 June 1997

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ISBN 0 580 27728 3

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English version

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(IEC 1269-1:1994)

Jeux d'embouts pour fibres optiques
Partie 1: Spécification générique
(CEI 1269-1:1994)

Kontakteinsätze für Lichtwellenleiter
Teil 1: Fachgrundspezifikation
(IEC 1269-1:1994)

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CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

The text of the International Standard IEC 1269-1:1994, prepared by SC 86B, Fibre optic interconnecting devices and passive components, of IEC TC 86, Fibre optics, was submitted to the formal vote and was approved by CENELEC as EN 61269-1 on 1996-10-01 without any modification.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1997-09-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1997-09-01

Annexes designated “normative” are part of the body of the standard. Annexes designated “informative” are given for information only. In this standard, Annex ZA is normative and Annex A is informative. Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 1269-1:1994 was approved by CENELEC as a European Standard without any modification.

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1 General

1.1 Scope

This part of IEC 1269 applies to fibre optic terminus sets for all types, sizes and structures of fibres and cables. It includes:

- terminus set requirements;
- quality assessment procedures.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 1269. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 1269 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC QC 001001:1986, *Basic Rules of the IEC Quality Assessment System for Electronic Components (IECQ)*.

IEC QC 001002:1986, *Rules of Procedure of the IEC Quality Assessment System for Electronic Components (IECQ)*.

IEC 27, *Letter symbols to be used in electrical technology*.

IEC 68, *Environmental testing*.

IEC 410:1973, *Sampling plans and procedures for inspection by attributes*.

IEC 617, *Graphical symbols for diagrams*.

IEC 695-2-2:1991, *Fire hazard testing — Part 2: Test methods — Section 2: Needle-flame test*.

IEC 874-1:1993, *Connectors for optical fibres and cables — Part 1: Generic specification*.

IEC 1300:199X, *Basic measurement and test procedures for passive fibre optic components (under consideration)*.

ISO 129:1985, *Technical drawings — dimensioning — General principles, definitions, methods of execution and special indications*.

ISO 286-1:1988, *ISO system of limits and fits — Part 1: Bases of tolerances, deviations and fits*.

ISO 370:1975, *Toleranced dimensions — Conversion from inches into millimetres and vice versa*.

ISO 1101:1983, *Technical drawings — Geometrical tolerancing — Tolerances of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings*.

1.3 Definitions

For the purposes of this part of IEC 1269, the following definitions apply.

1.3.1

terminus

an optical component which terminates an optical fibre within a connector and which is both removable from and replaceable in the connector. A specific terminus may be used in a wide variety of connector styles (e.g. circular, rectangular, rack and panel, hybrid, etc.) which may be qualified under other specification systems (e.g. specifications for electrical connectors)

1.3.2

terminus set

the two mateable termini. Generally, a set consists of a terminus pin and a terminus socket

1.3.3

mechanically intermateable termini

termini which are capable of being mechanically mated. Performance or intermountability are not requirements for intermateability