

Harmonized system of quality
assessment for electronic components

Fibre optic fan-outs —

Part 1: Generic specification

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Committees responsible for this British Standard

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- BECCAMA (BEAMA Electrical Cable and Conductor Accessory Manufacturers' Association)
- British Approvals Service for Cables
- British Cable Makers Confederation
- British Telecommunications plc
- Department of Trade and Industry (National Physical Laboratory)
- Federation of the Electronics Industry
- Ministry of Defence
- National Supervising Inspectorate (BSI PC)
- Society of Motor Manufacturers and Traders Ltd.

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National foreword

This British Standard has been prepared by Subcommittee EPL/86/2 and is the English language version of EN 61314-1:1997 *Fibre optic fan-outs — Part 1: Generic specification*, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 1314-1:1995 also designated QC 880000-1 published by the International Electrotechnical Commission (IEC).

Cross-references

Publication referred to	Corresponding British Standard
IEC QC 001002:1986	BS QC 001002: 1991 <i>Rules for procedure of the IEC Quality Assessment System for Electronic Components (IECQ)</i> BS 4727 <i>Glossary of electrotechnical power, telecommunication, electronics, lighting and colour terms</i>
IEC 50 (731):1991	BS 4727-3: Group 13:1992 <i>Optical fibre communication</i>
EN 60068-1:1994 (IEC 68-1:1988)	BS EN 60068 Environmental testing BS EN 60068-1:1995 <i>General and guidance</i>
EN 60617 (IEC 617)	BS EN 60617 <i>Graphical symbols for diagrams</i>
EN 60695-2-2:1994 (IEC 695-2-2:1991)	BS EN 60695 <i>Fire hazard testing</i> BS EN 60695-2-2:1995 <i>Needle flame test</i>
EN 20286-1:1993 (ISO 286-1:1988)	BS EN 20286-1:1992 <i>ISO system of limits and fits. Bases of tolerances, deviations and fits</i>
EN 28601:1992 (ISO 8601)	BS EN 28601:1992 <i>Specification for representation of dates and times in information interchange</i>

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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.

English version

Fibre optic fan-outs Part 1: Generic specification

(IEC 1314-1:1995)

Systèmes d'éclatement pour fibres
et câbles optiques
Partie 1: Spécification générique
(CEI 1314-1:1995)

Abzweiger für Lichtwellenleiter
Teil 1: Fachgrundspezifikation
(IEC 1314-1:1995)

This European Standard was approved by CENELEC on 1997-03-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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 1314-1:1995, 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 61314-1 on 1997-03-11 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) 1998-03-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1998-03-01

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 informative. Annex ZA has been added by CENELEC.

1 General

1.1 Scope

This specification applies to fibre optic fan-outs. It includes:

- fibre optic fan-out requirements;
- quality assessment procedures.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of IEC 1314-1. At the time of publication, the editions indicated were valid. All normative documents are subject to revision and parties to agreements based on IEC 1314-1 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.

References made to a specific clause or subclause of a standard include all subclauses to the reference unless otherwise specified.

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 50(731):1991, *International Electrotechnical Vocabulary (IEV) — Chapter 731: Optical fibre communication*.

IEC 68-1:1988, *Environmental testing — Part 1: General and guidance*.

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

IEC 419:1973, *Guide for the inclusion of lot-by-lot and periodic inspection procedures in specifications for electronic components (or parts)*.

IEC 617, *Graphical symbols for diagrams*.

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

IEC 793-1:1992, *Optical fibres — Part 1: Generic specification*.

IEC 794-1: 1993, *Optical fibre cables — Part 1: Generic specification*.

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

IEC 875-1:1992, *Fibre optic branching devices — Part 1: Generic specification*.

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 — Tolerancing of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings*.

ISO 8601:1988, *Data elements and interchange formats — Information interchange — Representation of dates and times*.

1.3 Definitions

For the purpose of this specification, the following definitions apply. They also apply to all detail specifications written to this specification. The relevant definitions of IEC 50(731) also apply; however, the definitions of this specification prevail.

1.3.1

fan-out

passive component providing a transition from multifibre cable unit to individual fibres or cables having at least one fibre or cable end connectorized

the transition structure provides fibre and cable anchoring and may contain splices