

Fibre optic interconnecting devices and passive components — Basic test and measurement procedures —

Part 3-17: Examinations and measurements — Endface angle of angle-polished ferrules

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

- aid enquirers to understand the text;
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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 15 and a back cover.

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English version

Fibre optic interconnecting devices and passive components
Basic test and measurement procedures
Part 3-17: Examinations and measurements
Endface angle of angle-polished ferrules
(IEC 61300-3-17:1999)

Dispositifs d'interconnexion et
composants passifs à fibres optiques
Méthodes fondamentales d'essais et
de mesures
Partie 3-17: Examens et mesures
Angle de la face terminale des embouts
polis angulairement
(CEI 61300-3-17:1999)

Lichtwellenleiter - Verbindungselemente
und passive Bauteile - Grundlegende
Prüf- und Meßverfahren
Teil 3-17: Untersuchungen und
Messungen - Anschliffwinkel schräg
polierter Stifte
(IEC 61300-3-17:1999)

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CENELEC

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

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Foreword

The text of document 86B/1225/FDIS, future edition 2 of IEC 61300-3-17, 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 was approved by CENELEC as EN 61300-3-17 on 1999-10-01.

This European Standard supersedes EN 61300-3-17:1997.

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) 2000-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2002-10-01

Endorsement notice

The text of the International Standard IEC 61300-3-17:1999 was approved by CENELEC as a European Standard without any modification.

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –

Part 3-17: Examinations and measurements – Endface angle of angle-polished ferrules

1 General

1.1 Scope and object

The object of this part of IEC 61300 is to describe the methods to measure the endface angle of flat or convex angle-polished ferrules.

1.2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61300. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of IEC 61300 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2538:1998, *Geometrical Product Specifications (GPS) – Series of angles and slopes on prisms*

2 General description

The ferrule endface angle θ for flat endface angle-polished ferrules is defined as the angle between the plane perpendicular to the axis of the ferrule and the plane of the flat endface. The endface angle θ for spherically polished angled endface ferrules is the angle between the plane perpendicular to the axis of the ferrule and the straight line tangent to the polished surface at the fibre core in the direction of the nominal angle (see figure 1).

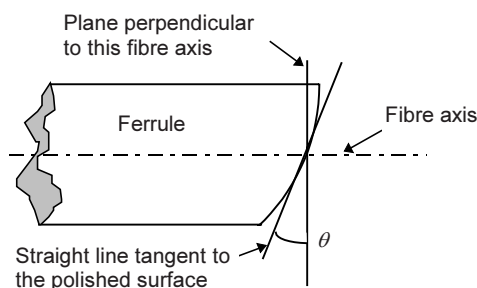


Figure 1a – Convex polished ferrules

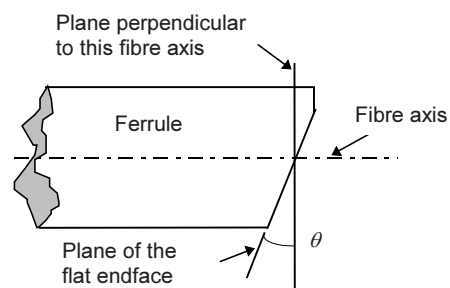


Figure 1b – Flat polished ferrules

IEC 1047/99

Figure 1 – Definition of ferrule endface angle for convex and flat polished ferrules