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**Optični spojni elementi in pasivne komponente - Osnovni preskusni in merilni postopki - 3-35. del: Preiskave in meritve - Vizualno pregledovanje optičnih konektorjev in sprejemnikov-oddajnikov z vlakenskimi tulkami (IEC 61300-3-35:2022)**

Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-35: Examinations and measurements - Visual inspection of fibre optic connectors and fibre-stub transceivers (IEC 61300-3-35:2022)

Lichtwellenleiter - Verbindungselemente und passive Bauteile - Grundlegende Prüf- und Messverfahren - Teil 3-35: Untersuchungen und Messungen - Visuelle Inspektion von Lichtwellenleiter-Steckverbindern und Faser Stub-Transceivern (IEC 61300-3-35:2022)

Dispositifs d'interconnexion et composants passifs à fibres optiques - Procédures fondamentales d'essais et de mesures - Partie 3-35: Examens et mesures - Examen visuel des connecteurs à fibres optiques et des émetteurs-récepteurs à embase fibrée (IEC 61300-3-35:2022)

**Ta slovenski standard je istoveten z: EN IEC 61300-3-35:2022**

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**ICS:**

33.180.20	Povezovalne naprave za optična vlakna	Fibre optic interconnecting devices
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**SIST EN IEC 61300-3-35:2023****en**



EUROPEAN STANDARD

EN IEC 61300-3-35

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2022

ICS 33.180.20

Supersedes EN 61300-3-35:2015

English Version

Fibre optic interconnecting devices and passive components -  
Basic test and measurement procedures - Part 3-35:  
Examinations and measurements - Visual inspection of fibre  
optic connectors and fibre-stub transceivers  
(IEC 61300-3-35:2022)

Dispositifs d'interconnexion et composants passifs  
fibroniques - Procédures fondamentales d'essais et de  
mesures - Partie 3-35: Examens et mesures - Examen  
visuel des connecteurs fibroniques et des émetteurs-  
récepteurs à embase fibrée  
(IEC 61300-3-35:2022)

Lichtwellenleiter - Verbindungselemente und passive  
Bauteile - Grundlegende Prüf- und Messverfahren - Teil 3-  
35: Untersuchungen und Messungen - Visuelle Inspektion  
von Lichtwellenleiter-Steckverbindern und Faser Stub-  
Transceivern  
(IEC 61300-3-35:2022)

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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

**EN IEC 61300-3-35:2022 (E)****European foreword**

The text of document 86B/4643/FDIS, future edition 3 of IEC 61300-3-35, 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 approved by CENELEC as EN IEC 61300-3-35:2022.

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) 2023-07-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-10-21

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The text of the International Standard IEC 61300-3-35:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 61300-1 NOTE Harmonized as EN IEC 61300-1

IEC 61755-2 (series) NOTE Harmonized as EN 61755-2 (series)

IEC 63267-2 (series) NOTE Harmonized as EN IEC 63267-2 (series)<sup>1</sup>

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<sup>1</sup> Under preparation. Stage at the time of publication: prEN IEC 63267-2 (series):2022.

## 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 60825-2	-	Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCSS)	EN 60825-2	-

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IEC 61300-3-35

Edition 3.0 2022-09

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Fibre optic interconnecting devices and passive components – Basic test and measurement procedures –  
Part 3-35: Examinations and measurements – Visual inspection of fibre optic connectors and fibre-stub transceivers**

SIST EN IEC 61300-3-35:2023

**Dispositifs d'interconnexion et composants passifs fibroniques – Procédures fondamentales d'essais et de mesures –  
Partie 3-35: Examens et mesures – Examen visuel des connecteurs fibroniques et des émetteurs-récepteurs à embase fibrée**

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## CONTENTS

FOREWORD .....	4
1 Scope .....	6
2 Normative references .....	6
3 Terms, definitions and abbreviated terms .....	6
3.1 Terms and definitions.....	6
3.2 Abbreviated terms.....	7
4 Apparatus.....	7
4.1 General.....	7
4.2 Method A: Direct view optical microscopy .....	8
4.3 Method B: Video microscopy.....	8
4.4 Method C: Automated analysis microscopy .....	9
4.5 Requirements of validation.....	9
4.6 Minimum requirements for standard field of view microscope.....	9
4.7 Minimum requirements for large field of view microscope.....	9
5 Inspection procedure .....	9
Annex A (normative) Visual requirements for connector end faces .....	12
A.1 Requirements .....	12
A.2 Visual inspection requirements for multimode PC and APC polished connectors .....	12
A.3 Visual requirements for single-mode PC polished connectors, $RL \geq 26$ dB, and single-mode transceivers using a fibre-stub interface .....	13
A.4 Visual requirements for single-mode PC polished connectors, $RL \geq 35$ dB .....	13
A.5 Visual requirements for single-mode PC polished connectors, $RL \geq 45$ dB .....	14
A.6 Visual requirements for single-mode angle polished (APC) connectors .....	14
Annex B (informative) Examples of defects and scratches .....	15
Annex C (normative) Validation procedure .....	16
C.1 Validation artefact.....	16
C.2 Validation procedure .....	16
Annex D (informative) Recommended cleaning method.....	17
D.1 Inspection procedure for cleanliness .....	17
D.2 Cleaning procedure rectangular ferrules (on cable).....	17
D.3 Cleaning procedure for cylindrical ferrules .....	19
D.4 Cleaning procedure for adaptor and receptacle of rectangular ferrules.....	20
Annex E (informative) Examples of large field of view images .....	21
Bibliography.....	23
Figure 1 – Flowchart of inspection procedure.....	10
Figure B.1 – Example 1 of defects and scratches.....	15
Figure B.2 – Example 2 of defects and scratches.....	15
Figure D.1 – Flowchart of dry only cleaning/inspection sequence.....	17
Figure D.2 – Flowchart of dry-wet cleaning/inspection sequence.....	17
Figure D.3 – Dry cleaning of connector on cable .....	18
Figure D.4 – Moisten the tape .....	19
Figure D.5 – Wiping action.....	19



Figure D.6 – cleaning of cylindrical ferrule .....	19
Figure D.7 – Moisten the tape .....	20
Figure D.8 – 2 Strokes on wet tape .....	20
Figure D.9 – Insert click cleaner.....	20
Figure D.10 – Clean pins .....	20
Figure D.11 – Rotate stick .....	20
Figure E.1 – Example of typical contaminations .....	21
Figure E.2 – Example of typical contaminations .....	21
Figure E.3 – Example of typical contaminations .....	22
Figure E.4 – Example of typical contaminations .....	22
Table A.1 – Visual requirements for multimode PC and APC polished connectors.....	12
Table A.2 – Visual requirements for single-mode PC polished connectors, $RL \geq 26$ dB, and single-mode transceivers using a fibre-stub interface .....	13
Table A.3 – Visual requirements for single-mode PC polished connectors, $RL \geq 35$ dB .....	13
Table A.4 – Visual requirements for single-mode PC polished connectors, $RL \geq 45$ dB .....	14
Table A.5 – Visual requirements for single-mode angle polished (APC) connectors .....	14

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS – BASIC TEST AND MEASUREMENT PROCEDURES –****Part 3-35: Examinations and measurements – Visual inspection of fibre optic connectors and fibre-stub transceivers**

## FOREWORD

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IEC 61300-3-35 has been prepared by subcommittee SC 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics. It is an International Standard.

This third edition cancels and replaces the second edition published in 2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) adding of a statement that visual inspection is not a substitute for optical qualification such as attenuation and return loss measurement;
- b) adding of some terms and definitions;
- c) adding requirements for SM 35 dB connectors;

- d) adding of a sentence in Clause 5 concerning the susceptibility of the methods to system variability and variability within systems from same supplier;
- e) removal of inspection requirements for zones C and D;
- f) insertion of a generic cleanliness specification for whole rectangular ferrule and 250 µm area around every fibre;
- g) adding a cleaning recommendation for rectangular and cylindrical ferrules;
- h) outer edge of inspection zone B has changed from 115 µm to 110 µm to meet manufacturing tolerances of fixture for microscopes;
- i) change that defects that are partly in core are only to be judged for the part they are in the core. The remainder of the defect is considered to be located in the cladding.
- j) adding a statement that a connector cannot be rejected by just failing visual inspection. Meeting the specified optical performance determines the use of this connector.

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

Draft	Report on voting
86B/4643/FDIS	86B/4665/RVD

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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A list of all parts in the IEC 61300 series, published under the general title *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures*, can be found on the IEC website.

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