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**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**

**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

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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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