

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Fibre optic interconnecting devices and passive components – Performance standard –

Part 021-02: Single-mode fibre optic connectors terminated as pigtails and patchcords for category C – Controlled environment

Dispositifs d'interconnexion et composants passifs fibroniques – Norme de performance –

Partie 021-02: Connecteurs à fibres optiques unimodales raccordés comme des fibres amorces ou des cordons de brassage pour la catégorie C – Environnement contrôlé





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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 33.180.20

ISBN 978-2-8322-7612-9

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES
AND PASSIVE COMPONENTS – PERFORMANCE STANDARD –****Part 021-02: Single-mode fibre optic connectors terminated as pigtails
and patchcords for category C – Controlled environment**

FOREWORD

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IEC 61753-021-02 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics. It is an International Standard.

This first edition cancels and replaces the second edition of IEC 61753-021-2 published in 2007. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC 61753-021-2:2007:

- a) changed scope to remove restrictions on attenuation and return loss grades;
- b) included provisions for rectangular ferrule connectors;

- c) changed the terms and definitions of the different types of test samples (pigtail test samples and patchcord test samples) used in the various tests to avoid confusion;
- d) updated fibre naming conventions according to IEC 60793-2-50 and added provisions for B-657 fibres;
- e) added all the attenuation and return loss grades defined in IEC 61753-1;
- f) test severities updated according to IEC 61753-1;
- g) reduced flexing of strain relief cycles from 100 cycles to 50 cycles;
- h) added the torsion test;
- i) reduced the duration of the fibre/cable retention test on reinforced cables from 120 s to 60 s minimum;
- j) removed the static side load test;
- k) reduced the number of mating durability cycles from 500 cycles to 200 cycles and added provisions for rectangular ferrule connectors;
- l) added Annex B for visual examination of the outer cable sheath movement of reinforced cables as an additional requirement for change of temperature, cable retention and flexing of the strain relief tests.

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

Draft	Report on voting
86B/4793/FDIS	86B/4812/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/publications.

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