

BS EN 61753-022-2:2013



BSI Standards Publication

# Fibre optic interconnecting devices and passive components — Performance standard

Part 022-2: Fibre optic connectors  
terminated on multimode fibre for  
category C — Controlled environment  
(IEC 61753-022-2:2012)

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### National foreword

This British Standard is the UK implementation of EN 61753-022-2:2013. It is identical to IEC 61753-022-2:2012. It supersedes BS EN 61753-022-2:2003, which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee GEL/86, Fibre optics, to Subcommittee GEL/86/2, Fibre optic interconnecting devices and passive components.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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### Compliance with a British Standard cannot confer immunity from legal obligations.

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### Amendments issued since publication

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

# EN 61753-022-2

February 2013

ICS 33.180.20

Supersedes EN 61753-022-2:2003

English version

**Fibre optic interconnecting devices and passive components -  
Performance standard -  
Part 022-2: Fibre optic connectors terminated on multimode fibre for  
category C -  
Controlled environment  
(IEC 61753-022-2:2012)**

Dispositifs d'interconnexion et composants  
passifs à fibres optiques -  
Norme de performance -  
Partie 022-2: Connecteurs à fibres  
optiques raccordés à une fibre  
multimodale pour la catégorie C -  
Environnement contrôlé  
(CEI 61753-022-2:2012)

Lichtwellenleiter -  
Verbindungselemente und passive  
Bauteile - Betriebsverhalten -  
Teil 022-2: Lichtwellenleiter-  
Steckverbinder zum Anschluss an  
Mehrmodenfasern für die Kategorie C -  
Kontrollierte Umgebung  
(IEC 61753-022-2:2012)

This European Standard was approved by CENELEC on 2012-12-20. 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 CEN-CENELEC Management Centre or to any CENELEC member.

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## CENELEC

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

**Management Centre: Avenue Marnix 17, B - 1000 Brussels**

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## Foreword

The text of document 86B/3493/FDIS, future edition 2 of IEC 61753-022-2, 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 61753-022-2:2013.

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) 2013-09-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2013-12-20

This document supersedes EN 61753-022-2:2003.

EN 61753-022-2:2013 includes the following significant technical changes with respect to EN 61753-022-2:2003:

– reconsideration of test requirements and details.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

## Endorsement notice

The text of the International Standard IEC 61753-022-2:2012 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61753-1:2007 NOTE Harmonized as EN 61753-1:2007 (not modified).

## Annex ZA (normative)

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated

|                |   |                                                                                                                                                                           |               |   |
|----------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---|
|                |   | Optical fibres -<br>Part 2-10: Product specifications - Sectional<br>specification for category A1 multimode<br>fibres                                                    | EN 60793-2-10 | - |
| IEC 61300-1    | - | Fibre optic interconnecting devices and<br>passive components - Basic test and<br>measurement procedures -<br>Part 1: General and guidance                                | EN 61300-1    | - |
| IEC 61300-2-1  | - | Fibre optic interconnecting devices and<br>passive components - Basic test and<br>measurement procedures -<br>Part 2-1: Tests - Vibration (sinusoidal)                    | EN 61300-2-1  | - |
| IEC 61300-2-2  | - | Fibre optic interconnecting devices and<br>passive components - Basic test and<br>measurement procedures -<br>Part 2-2: Tests - Mating durability                         | EN 61300-2-2  | - |
| IEC 61300-2-4  | - | Fibre optic interconnecting devices and<br>passive components - Basic test and<br>measurement procedures -<br>Part 2-4: Tests - Fibre/cable retention                     | EN 61300-2-4  | - |
| IEC 61300-2-6  | - | Fibre optic interconnecting devices and<br>passive components - Basic test and<br>measurement procedures -<br>Part 2-6: Tests - Tensile strength of coupling<br>mechanism | EN 61300-2-6  | - |
| IEC 61300-2-12 | - | Fibre optic interconnecting devices and<br>passive components - Basic test and<br>measurement procedures -<br>Part 2-12: Tests - Impact                                   | EN 61300-2-12 | - |
| IEC 61300-2-17 | - | Fibre optic interconnecting devices and<br>passive components - Basic test and<br>measurement procedures -<br>Part 2-17: Tests - Cold                                     | EN 61300-2-17 | - |
| IEC 61300-2-18 | - | Fibre optic interconnecting devices and<br>passive components - Basic test and<br>measurement procedures -<br>Part 2-18: Tests - Dry heat - High<br>temperature endurance | EN 61300-2-18 | - |

|                |   |                                                                                                                                                                                                               |               |   |
|----------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---|
| IEC 61300-2-19 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -<br>Part 2-19: Tests - Damp heat (steady state)                                                           | EN 61300-2-19 | - |
| IEC 61300-2-22 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -<br>Part 2-22: Tests - Change of temperature                                                              | EN 61300-2-22 | - |
| IEC 61300-2-42 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -<br>Part 2-42: Tests - Static side load for connectors                                                    | EN 61300-2-42 | - |
| IEC 61300-2-44 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -<br>Part 2-44: Tests - Flexing of the strain relief of fibre optic devices                                | EN 61300-2-44 | - |
| IEC 61300-3-3  | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -<br>Part 3-3: Examinations and measurements - Active monitoring of changes in attenuation and return loss | EN 61300-3-3  | - |
| IEC 61300-3-4  | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -<br>Part 3-4: Examinations and measurements - Attenuation                                                 | EN 61300-3-4  | - |
| IEC 61300-3-6  | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -<br>Part 3-6: Examinations and measurements - Return loss                                                 | EN 61300-3-6  | - |
| IEC 61300-3-28 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -<br>Part 3-28: Examinations and measurements - Transient loss                                             | EN 61300-3-28 | - |
| IEC 61300-3-34 | - | Fibre optic interconnecting devices and passive components - Basic test and measurement procedures -<br>Part 3-34: Examinations and measurements - Attenuation of random mated connectors                     | EN 61300-3-34 | - |