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SPECIFICATION

IEC
PAS 61753-081-2

Pre-Standard

First edition
2005-02

**Fibre optic interconnecting devices and
passive components performance standard –**

**Part 081-2:
Non-connectorized single-mode fibre optic
middle-scale 1 × N DWDM devices for category C –
Controlled environments**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FIBRE OPTIC INTERCONNECTING DEVICES AND
PASSIVE COMPONENTS PERFORMANCE STANDARD –****Part 081-2: Non-connectorized single-mode fibre optic middle-scale 1 × N
DWDM devices for category C – Controlled environments****FOREWORD**

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IEC-PAS 61753-081-2 has been processed by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics

The text of this PAS is based on the
following document:

This PAS was approved for
publication by the P-members of the
committee concerned as indicated in
the following document

| Draft PAS | Report on voting |
|--------------|------------------|
| 86B/1885A/NP | 86B/1908/RVN |

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FIBRE OPTIC INTERCONNECTING DEVICES AND PASSIVE COMPONENTS PERFORMANCE STANDARD –

Part 081-2: Non-connectorized single-mode fibre optic middle-scale 1 × N DWDM devices for category C – Controlled environments

1 Scope

This specification contains the minimum initial test and measurement requirements and severities which a fibre optic middle-scale 1 × N ($16 \leq N \leq 64$) DWDM (Dense Wavelength Division Multiplexing) device shall satisfy in order to be categorized as meeting the IEC standard category C-controlled environments. The requirements cover devices with single-mode non-connectorized pigtails and no circuit-board. There is also a distinction between small-scale ($N < 16$) and large-scale ($N > 64$) 1 × N DWDM devices for the purpose of standards.

2 Normative references

The following referenced documents are indispensable for the application 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.

IEC 60793-1-42:2001, *Optical fibres – Part 1-42: Measurement methods and test procedures – Chromatic dispersion*

IEC 61300-2-1, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-1: Tests – Vibration (sinusoidal)*

IEC 61300-2-4, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-4: Tests – Fibre/cable retention*

IEC 61300-2-9, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-9: Tests – Shock*

IEC 61300-2-14, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-14: Tests – Maximum input power*

IEC 61300-2-17, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-17: Tests – Cold*

IEC 61300-2-18, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-18: Tests – Dry heat – High temperature endurance*

IEC 61300-2-22, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-22: Tests – Change of temperature*

IEC 61300-2-42, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 2-42: Tests – Static side load for connectors*

IEC 61300-3-2, *Fibre optic interconnecting devices and passive components – Basic test and measurement procedures – Part 3-2: Examinations and measurements – Polarization dependence of attenuation in a single-mode fibre optic device*