

Nederlandse praktijkrichtlijn

NPR-IEC/TR 61282-3

(en)

Fibre optic communication system design
guides - Part 3: Calculation of link polarization mode
dispersion (IEC/TR 61282-3:2006, IDT)

Preview

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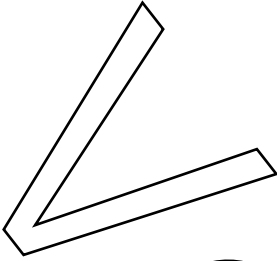
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**TECHNICAL
REPORT**

**IEC
TR 61282-3**

Second edition
2006-10



**Fibre optic communication system design guides –
Part 3:
Calculation of link polarization mode dispersion**

Preview

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IEC TR 61282-3

Second edition
2006-10

Fibre optic communication system design guides – Part 3: Calculation of link polarization mode dispersion

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Part 3: Calculation of link polarization mode dispersion

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IEC 61282-3, which is a technical report, has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics.

This second edition cancels and replaces the first edition published in 2002. It is a technical revision that includes the following significant changes:

- a) the title has been changed to better reflect its applicability to links;
- b) Equations (1) and (2) were simplified in order to align with agreements in the ITU-T.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
86C/701/DTR	86C/720/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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INTRODUCTION

Polarization mode dispersion (*PMD*) is usually described in terms of a differential group delay (*DGD*), which is the time difference between the principal states of polarization of an optical signal at a particular wavelength and time. *PMD* in cabled fibres and optical components causes an optical pulse to spread in the time domain, which may impair the performance of a fibre optic telecommunication system, as defined in IEC 61281-1.

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