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SPECIFICATION

IEC  
PAS 60794-2-21

Pre-Standard

First edition  
2004-03

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**Optical fibre cables –**

**Part 2-21:**

**Indoor optical fibre cables –  
Detailed specification for multi-fibre  
optical distribution cables for use  
in premises cabling**

IEC/PAS 60794-2-21:2004

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## OPTICAL FIBRE CABLES –

**Part 2-21: Indoor optical fibre cables –  
Detailed specification for multi-fibre optical distribution cables  
for use in premises cabling**

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IEC-PAS 60794-2-21 has been processed by subcommittee 86A: Fibre and cables, 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
86A/862/NP	86A/884/RVN

Following publication of this PAS, which is a pre-standard publication, the technical committee or subcommittee concerned will transform it into an International Standard.

## OPTICAL FIBRE CABLES –

### Part 2-21: Indoor optical fibre cables – Detailed specification for multi-fibre optical distribution cables for use in premises cabling

#### 1 Scope

This document presents the detailed requirements specific to this type of cable to ensure compatibility with ISO 11801. The requirements of IEC 60794-2-20 are applicable to cables covered by this standard.

#### 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 60793-2-10: *Optical fibres – Part 2-10: Product specifications – Sectional specification for category A1 multimode fibres* <sup>1)</sup>

IEC 60793-2-50: *Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres*

IEC 60794-2-20: *Optical fibre cables – Part 2-20: Indoor optical fibre cables – Family specification for multi-fibre optical distribution cables*

ISO 11801: *Information technology – Generic cabling for customer premises*

#### 3 General requirements

The cable shall meet the requirements of IEC 60794-2-20, along with the normative requirements defined in it.

The optical fibre contained in the cable shall meet the requirements of one of the following, along with the normative requirements defined within them:

- IEC 60793-2-50, Annex A (single-mode B1.1 fibre)
- IEC 60793-2-50, Annex C (single-mode B1.3 fibre)
- IEC 60793-2-10, Annex A (multimode A1a, 50 µm core fibre)
- IEC 60793-2-10, Annex B (multimode A1b, 62.5 µm core fibre)

To ensure compatibility with ISO 11801, optical performance level requirements are presented in terms of the performance classification codes found there. These codes are informative from the perspective of the requirements defined in the following clauses. The codes are:

- OS1        Single-mode B1.1 or B1.3 fibre
- OM1        Multimode A1a or A1b fibre
- OM2        Multimode A1a or A1b fibre
- OM3        Multimode A1a fibre defined in 86A/845/CD [2] as A1a.2

1) Second edition to be published.