



**SLOVENSKI STANDARD**  
**SIST EN 186260:1999**

**01-maj-1999**

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**Sectional Specification: Connector sets for optical fibres and cables - Type SC**

Sectional Specification: Connector sets for optical fibres and cables - Type SC

Rahmenspezifikation: Steckverbindersätze für Lichtwellenleiter und Lichtwellenleiterkabel - Bauart SC

Spécification intermédiaire: Jeux de connecteurs pour fibres et câbles optiques - Type SC

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**ICS:**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 186260**

November 1997

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Descriptors: Quality, electronic components, connectors

English version

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Connector sets for optical fibres and cables  
Type SC**

Spécification intermédiaire:  
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Rahmenspezifikation:  
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This European Standard was approved by CENELEC on 1994-02-07. 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 Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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## CENELEC

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

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FOREWORD

This European Standard was prepared by the Technical Committee CENELEC TC 86BXA (former WG 26 of CLC/TC CECC), Fibre optic connectors.

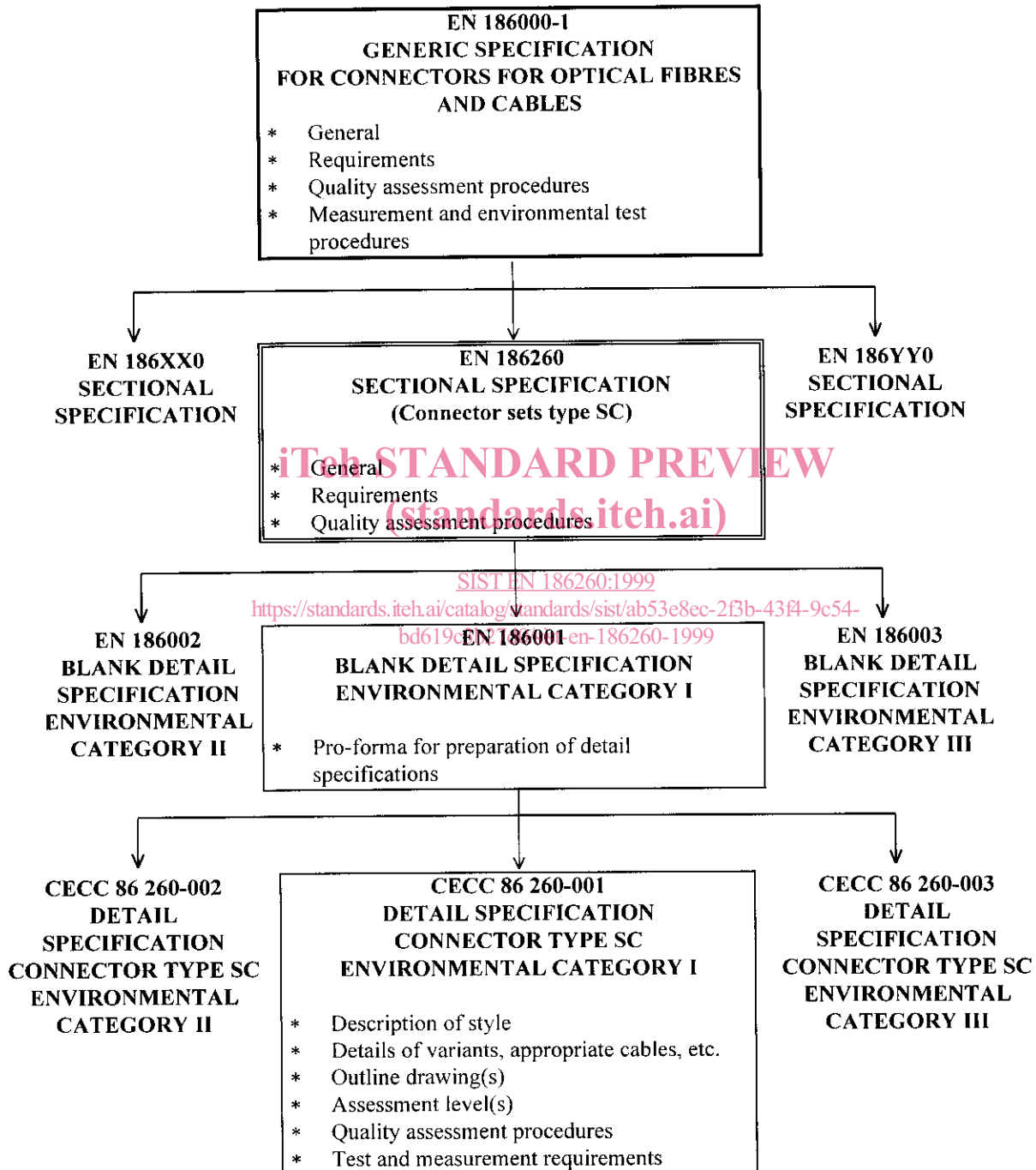
The text of the draft based on document CECC(Secretariat)3401 was submitted to the formal vote; together with the voting report, circulated as document CECC(Secretariat)3485, it was approved as EN 186260 on 1994-02-07.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1998-08-15
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 1999-08-15

Document numbering for fibre optic connector specifications follows 2.2(1) of CECC 00 700, Sect. IV, in order to permit the issue of more than nine sectional specifications. The approved numbering system applicable to fibre optic connector specifications is illustrated in the following diagram:

### CECC - SPECIFICATION SYSTEM



## 1 General

### 1.1 Scope

This sectional specification covers a family of single way fibre optic connector sets which are classified as type SC. Type SC is a connector set of the plug-adaptor-plug configuration. It features a push-pull coupling mechanism and cylindrical butting ferrules. The optical alignment mechanism is a split sleeve contained within the adaptor.

The specification contains the requirements for type SC connector sets.

Detail specifications (DS's) shall be prepared using the following pro forma general blank detail specifications (BDS's) associated with the generic specification. For example:

- EN 186005 for environmental category V.

When completed, the DS(s) applicable to this SS shall be numbered in accordance with CECC 00 700 (Section IV) Issue 1, clause 4.2, as follows. For example:

- CECC 86 265-000,  
Type SC,  
environmental category V.

### 1.2 Related documents

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below.

References made to a specific clause or sub-clause of a standard includes all sub-clauses to the reference unless otherwise specified.

EN 186000-1:	Generic specification for connectors for optical fibres and cables.
IEC 825-1:	Safety of laser products - Part 1: Equipment classification, requirements and user's guide.
IEC 825-2:	Safety of laser products - Part 2: Safety of optical fibre communication systems.

### 1.3 Definitions

All necessary definitions are given in EN 186000-1.

## 1.4 Safety

**1.4.1** Optical Fibre Connectors, when used as part of an Optical Fibre System, may emit/produce potentially hazardous radiation. The manufacturers of connectors are not obliged to mark them as such, but sufficient information should be made available in the manufacturer's literature to enable the system designer to assess the degree of hazard. This information shall be given prominence in the detail specification (DS).

**1.4.2** The assembly instructions, included in the connector package, shall give a prominent warning to the assembler, of the necessary safe work practices.

**1.4.3** The responsibility for the safe application of the connector lies with the system design engineer, who should refer to IEC 825-1. As there is no safety guide for light emitting diodes (LED's), IEC 825-1 shall apply to systems using these also.

**1.4.4** DS's should give the following information in a prominent position :

### **WARNING**

"Care should be taken when handling small diameter optical fibre, to prevent it puncturing the skin, especially in the eye area."

Direct viewing of the end of an optical fibre or a terminated optical fibre, while it is propagating energy is not recommended unless prior assurance has been obtained as to the safe energy of the output level.

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## 1.5 Marking

See 2.6 of EN 186000-1.

## 2 Requirements

The requirements specified in sections two and three of EN 186000-1 apply.

The requirements for connector sets components covered by this specification are as specified herein and in the relevant DS.

### 2.1 Classification

The connector sets covered by this specification are classified as :

Type :

- type 1: SC,
- coupling mechanism: push-pull,
- configurations: plug / adaptor / plug

Arrangements :

- kit,
- pigtail,
- patchcord.

Environmental categories: the DS-writer shall select the appropriate BDS for the chosen environmental category.

Assessment levels :

- level A,
- level B,
- level C

The single limit (maximum or minimum) mating face dimensions for connector set configurations are given in Figures 1 and 2.

The applicable configuration, arrangement, style, variants, climatic category and assessment levels shall be specified in the DS.



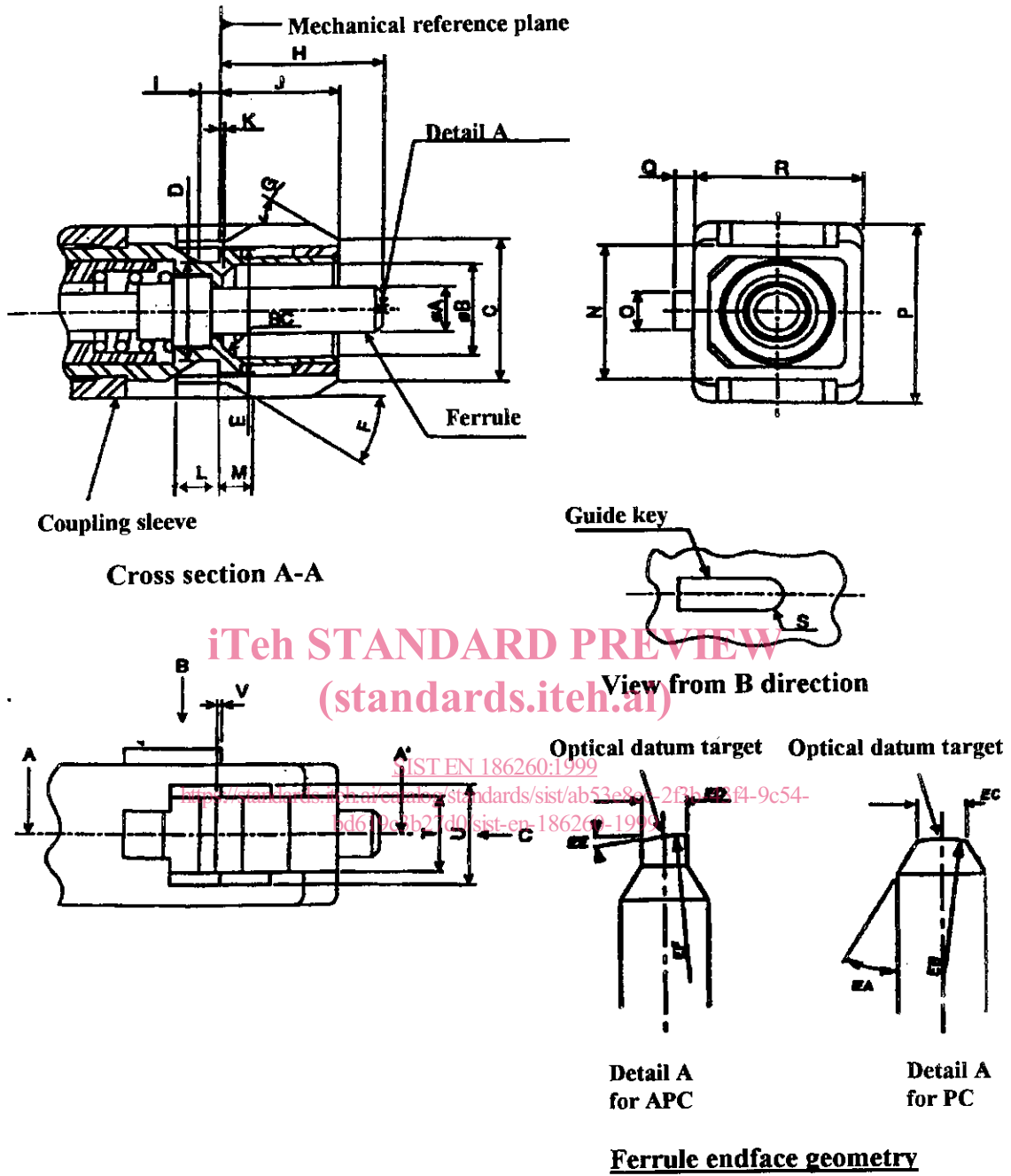


Figure 1 - Plug mating-face limit dimensions