INTERNATIONAL STANDARD

IEC 60874-14-3

QC 910004XX0003

First edition
1997-06

Connectors for optical fibres and cables –

Part 14-3:
Detail specification for fibre optic adaptor (simplex) type SC for single-mode fibre

Reference number
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Validité de la présente publication

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and for medical electrical equipment,

– IEC 60878: *Graphical symbols for electromedical equipment in medical practice.*

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The attention of readers is drawn to the end pages of this publication which list the IEC publications issued by the technical committee which has prepared the present publication.

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International Electrotechnical Commission
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CONNECTORS FOR OPTICAL FIBRES AND CABLES –

Part 14-3: Detail specification for fibre optic adaptor (simplex) type SC for single-mode fibre

FOREWORD

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International Standard IEC 60874-14-3 has been prepared by subcommittee 86B: Fibre optic interconnecting devices and passive components, of IEC technical committee 86: Fibre optics.

The text of this standard is based on the following documents:

FDIS	Report on voting
86B/873/FDIS	86B/1002/RVD

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

The QC number that appears on the front cover of this publication is the specification number in the IEC Quality Assessment System for Electronic Components (IECQ).

The references to clauses or subclauses of IEC 60874-1 indicated in this part apply to the third edition of IEC 60874-1.

CONNECTORS FOR OPTICAL FIBRES AND CABLES **Part 14- 3: Detail specification for fibre optic adaptor (simplex) type SC for single-mode fibre**	
NATIONAL STANDARDS ORGANIZATION:	..... Date: .....
DETAIL SPECIFICATION IEC QC 910004XX0003. FIBRE OPTIC COMPONENT OF ASSESSED QUALITY IN ACCORDANCE WITH • GENERIC SPECIFICATION: QC 910000 (IEC 60874-1) • BLANK DETAIL SPECIFICATION: QC 910001 (IEC 60874-1-1)	
FIBRE OPTIC ADAPTOR	
CLASSIFICATION: Type: Name: SC For use in datacom applications as specified in ISO/IEC International Standard 11801: "Generic cabling for customer premises" Configuration: plug-adaptor-plug Coupling: push-pull Control dimensions: – Plug: see figures 1, 2 and 3 – Gauge: see figure 4 Variants: see page 9 Climatic category: 10/60/4 Environmental category: 4 Assessment level: A	
QUALIFICATION PROCEDURE: Fixed sample procedure	
SAFETY WARNING: Take care when handling small diameter optical fibre to prevent puncturing the skin, especially in the eye area. Direct viewing of the end of an optical fibre when it is propagating energy is not recommended unless prior assurance is obtained as to the safe energy output level.	

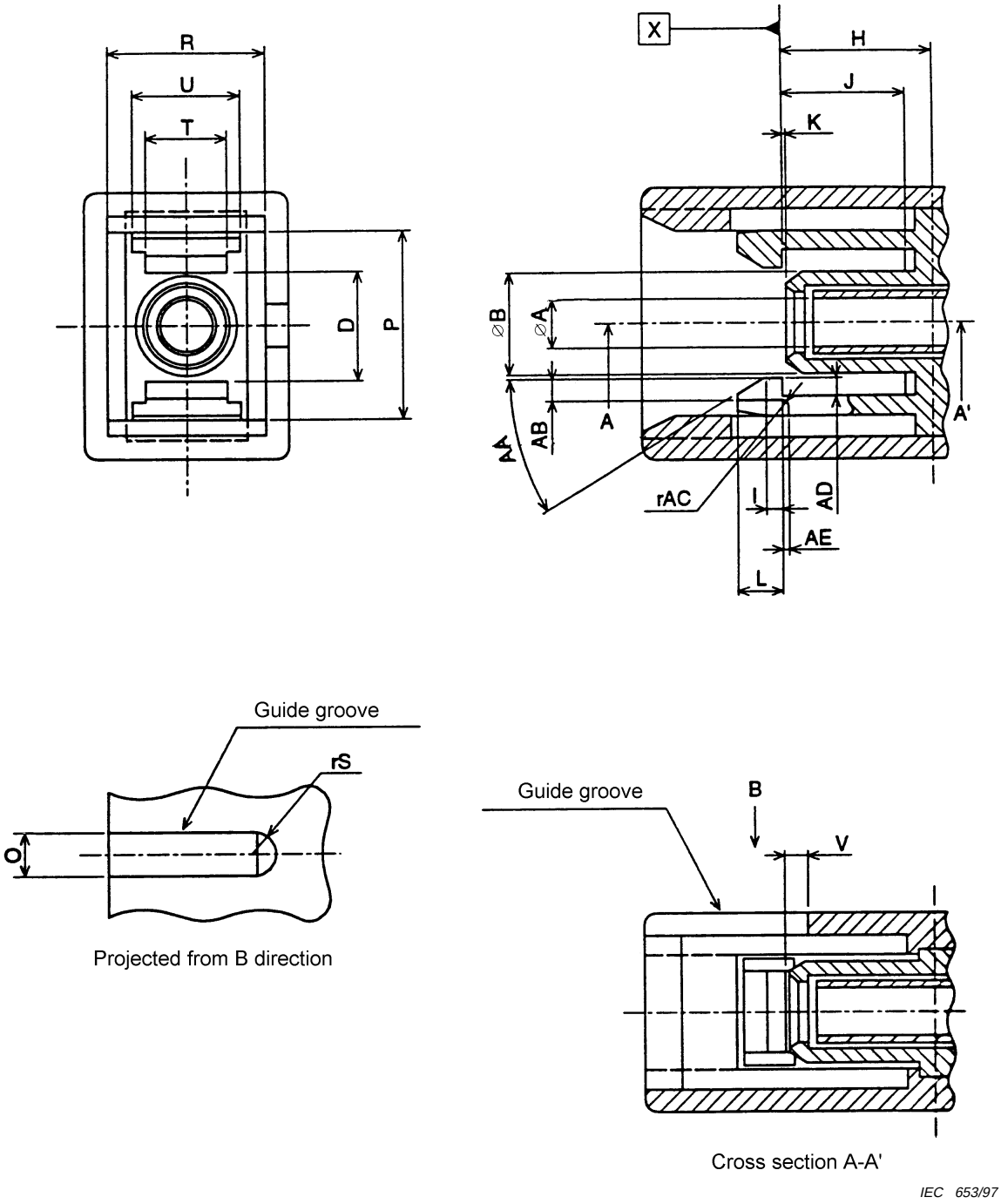


Figure 1 – Adaptor mating face dimensions

Reference	Dimensions		Notes
	Minimum	Maximum	
A	–	–	1
B	4,69 mm	4,79 mm	
D	4,9 mm	5,5 mm	
H	6,9 mm	7,1 mm	
I	0,4 mm	0,8 mm	
J	5,51 mm	5,9 mm	
K	0,06 mm	1 mm	
L	1,9 mm	2,1 mm	
O	2,0 mm	2,2 mm	2
P	9,0 mm	9,1 mm	
R	7,4 mm	7,5 mm	
rS	1,0 mm	1,1 mm	radius
T	3,80 mm	4,04 mm	
U	5,0 mm	5,3 mm	
V	0,6 mm	1,6 mm	
AA	27°	33°	degrees
AB	0,9 mm	1,0 mm	
rAC	0,4 mm	0,6 mm	radius
AD	0,7 mm	0,8 mm	
AE	0,4 mm	0,6 mm	

NOTES

1 The connector alignment feature is an alignment sleeve. The gauge retention force shall be measured with two gauge pins, each inserted to the middle of the alignment feature. The gauge retention force shall be from 2,0 N to 5,9 N.

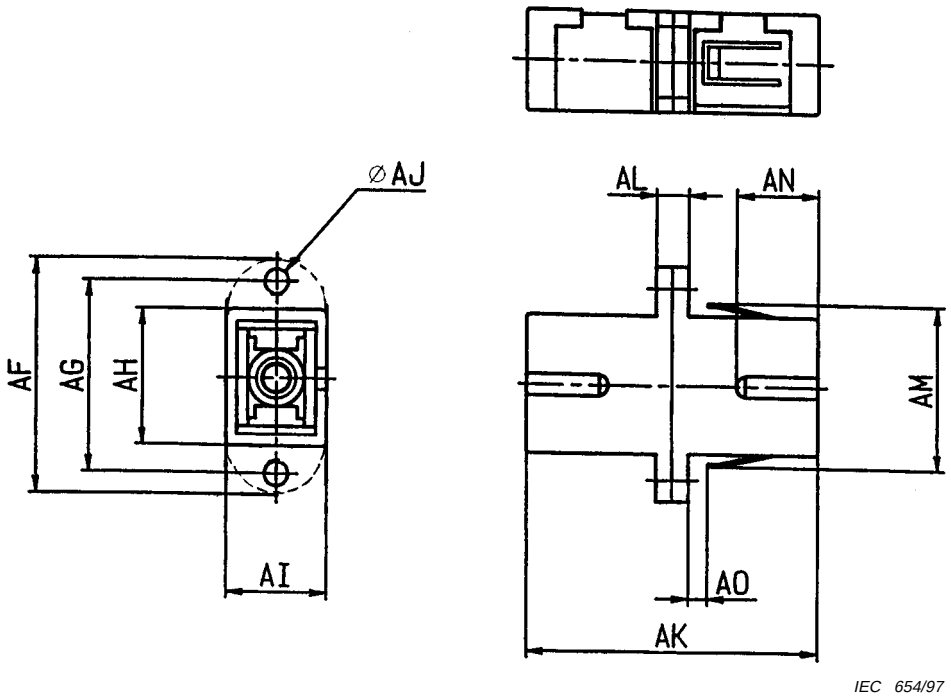
2 For the angled PC variants (Nos. 1005 to 1008) the two slots “O” shall be symmetric within ± 0,03 mm.

3 Where a tolerance of form is not specified, the limits of the dimensions for a feature control the form as well as the size.

4 Where interrelated features of size (features shown with a common axis or centre plane) have no geometric tolerance of location or run out specified, the limits of the dimensions for a feature control the location tolerance as well as the size.

5 Where perpendicular features (features shown at right angles) have no geometric tolerance of orientation or run out specified, the limits of the dimensions for a feature control the orientation tolerance as well as the size.

Figure 1 – Adaptor mating face dimensions *(continued)*



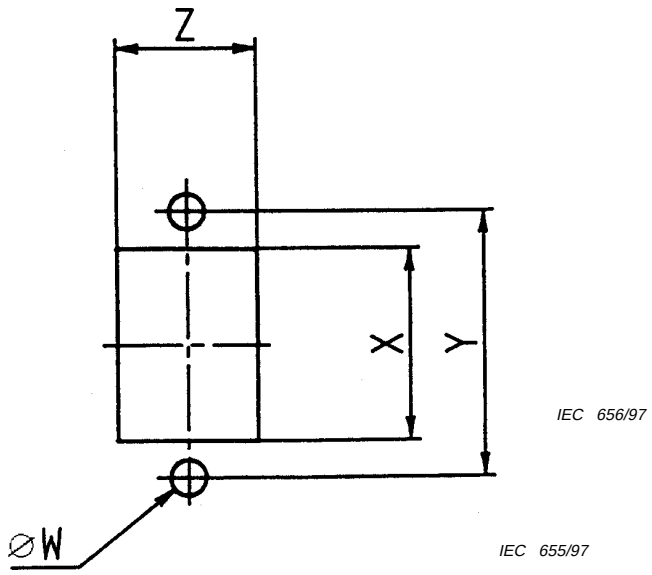
Reference	Dimensions mm		Notes
	Minimum	Maximum	
AF	21,5	22,5	1
AG	17,5	18,5	
AH	12,6	13,0	
AI	9,2	9,4	1
AJ	2,2	2,5	
AK	27,0	27,8	
AL	2,8	3,2	
AM	14,4	16,4	
AN	7,7	8,0	
AO	1,7	2,0	2

NOTES

1 The dotted lines indicate an example of the shape of the mounting flange. The mounting flange shall be within these dimensions.

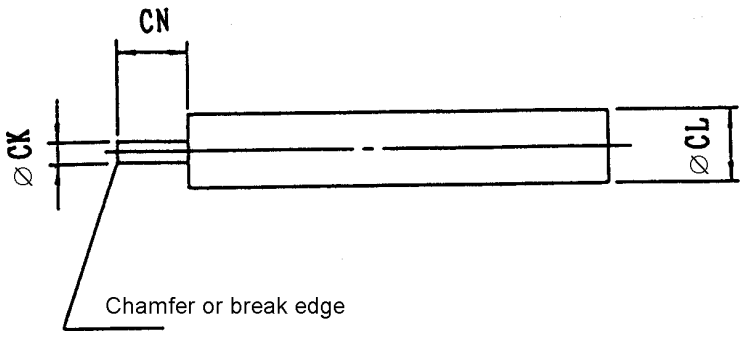
2 If the adaptor is mounted using this hook, the thickness of the panel shall be 1,6 mm.

Figure 2 – Adaptor dimensions



Reference	Dimensions mm		Notes
	Minimum	Maximum	
W	2,4	2,6	
X	13,1	13,6	
Y	17,9	18,1	
Z	9,5	10,0	

Figure 3 – Panel piercing and mounting detail



Reference	Dimensions mm		Notes
	Minimum	Maximum	
CK	2,4985	2,4995	1
CL	2,8	4,8	
CN	7	15	

NOTE

1 Surface roughness grade N4 (0,2 µm Ra).

Figure 4 – Dimension of a pin gauge for an adaptor

VARIANT IDENTIFICATION NUMBERS Number: QC 910X01/0003-ZZZZ				
ZZZZ	Component name	Variant feature		
		Housing part material	Sleeve material	Preferred housing colour/indicator
1001	Adaptor SMF	Plastic	Zirconia	Blue
1002	Adaptor SMF	Plastic	Phosphor bronze	Blue
1003	Adaptor SMF	Metal	Zirconia	Blue
1004	Adaptor SMF	Metal	Phosphor bronze	Blue
1005	Adaptor APC	Plastic	Zirconia	Green
1006	Adaptor APC	Plastic	Phosphor bronze	Green
1007	Adaptor APC	Metal	Zirconia	Green
1008	Adaptor APC	Metal	Phosphor bronze	Green

SUPPLEMENTARY INFORMATION

Preferred colour:

For SMF: blue according to: RAL 5015.

For APC: green according to RAL 6029

NOTE – The variants 1001, 1003, 1005 and 1007 are recommended for APC connectors

Component marking:

The name and/or manufacturer's identification mark may be permanently identified. Figure 5 shows an example of the location of the component marking.

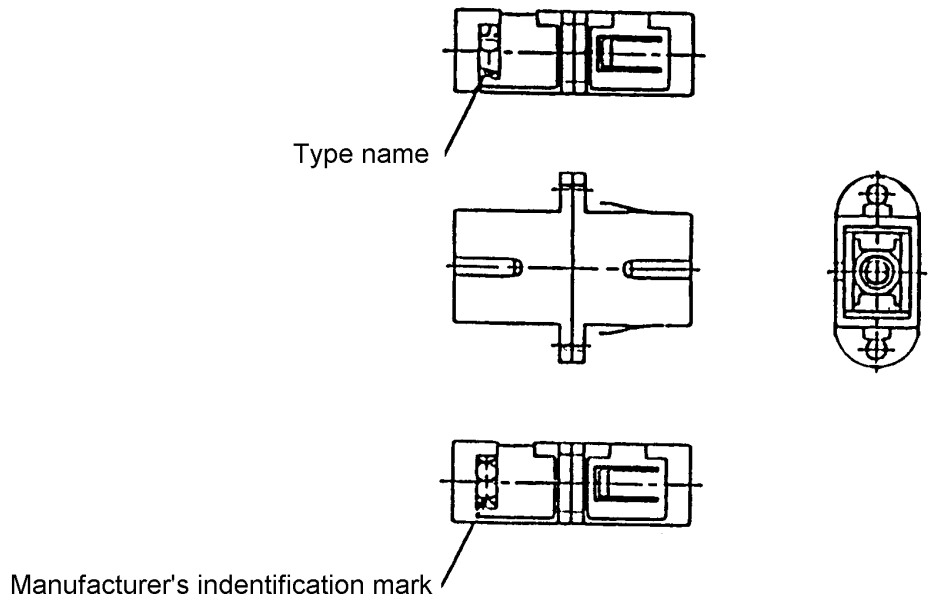


Figure 5 – Example of component marking

TABLE 1

FIXED SAMPLE TEST SCHEDULE FOR QUALIFICATION APPROVAL

Test sequence	Reference IEC 60874-1 (IEC 61300)	*n*
Group 0		
– Visual examination	4.4.1 (3-1)	20
– Dimensions	4.4.2 (3-1)	
– Gauge retention force	(3-33)	
Group 1		
– Attenuation	4.4.7 (3-4)	20
Group 2		
– Cold	4.5.17 (2-17)	
– Dry heat	4.5.18 (2-18)	6
– Damp heat (steady state)	4.5.19 (2-19)	
Group 3		
– Engagement and separation force	4.4.5 (3-11)	
– Mechanical endurance	4.5.32 (2-2)	6
Group 4		
– Vibration	4.5.1 (2-1)	4
– Change of temperature (test Nb)	4.5.22 (2-22)	
Group 5		
– Strength of coupling mechanism	4.5.6 (2-6)	4

NOTES

1 *n* = sample size (number of plugs).

2 To satisfy the qualification approval requirements of the detail specification there shall be no failures of any in the sample groups for any test parameter. If a failure does occur this shall be investigated and the cause of failure identified and corrected. The test which is affected shall then be repeated using the minimum sample size stated in this detail specification.

A fully documented test report and supporting data shall be prepared and shall be available for inspection. Failures and the corrective action taken to eliminate failures shall be documented and evidence shall be presented to show that the corrective action will have no detrimental effect on the performance in any of the other tests. Design changes, as opposed to improvements in quality control, will usually be deemed to necessitate a repeat of the full qualification programme.

3 Unless otherwise indicated, the test details, measurements and performance requirements are given in table 4.

4 Only group 1 tests shall be carried out using a reference connector. All other tests shall be carried out using the samples from the relevant group at random.

TABLE 2

LOT-BY-LOT QUALITY CONFORMANCE INSPECTION SCHEDULE
GROUPS A AND B

Test sequence	Reference IEC 60874-1 (IEC 61300)	Assessment level A	
		IL	AQL
Group A – Visual examination – Gauge retention force	 4.4.1 (3-1) 4.4.2 (3-33)	 II	 4 %
Group B – Attenuation	 4.4.7 (3-4)	 II	 4 %

NOTES

1 Unless otherwise indicated, the details, measurements and performance requirements are given in table 4.

2 IL = Inspection level; AQL = Acceptable quality level.

3 Only group B tests shall be carried out using a reference connector. All other tests shall be carried out using the samples from the relevant group at random.

TABLE 3

PERIODIC QUALITY CONFORMANCE INSPECTION SCHEDULE
GROUPS C AND D

Test sequence	Reference IEC 60874-1 (IEC 61300)	Assessment level A	
		n	*p*
Group C0			
– Visual examination	4.4.1 (3-1)	18	24
– Dimensions	4.4.2 (3-1)		
– Gauge retention force	(3-33)		
Group C1			
– Attenuation	4.4.7 (3-4)	18	24
Group C2			
– Cold	4.5.17 (2-17)		
– Dry heat	4.5.18 (2-18)	6	24
– Damp heat (steady state)	4.5.19 (2-19)		
Group D0			
– Visual examination	4.4.1 (3-1)	20	48
– Dimensions	4.4.2 (3-1)		
– Gauge retention force	(3-33)		
Group D1			
– Attenuation	4.4.7 (3-4)	20	48
Group D2			
– Cold	4.5.17 (2-17)		
– Dry heat	4.5.18 (2-18)	6	48
– Damp heat (steady state)	4.5.19 (2-19)		
Group D3			
– Engagement and separation force	4.4.5 (3-11)		
– Mechanical endurance	4.5.2 (2-2)	6	48
Group D4			
– Vibration	4.5.1 (2-1)	4	48
– Change of temperature (test Nb)	4.5.22 (2-22)		
Group D5			
– Strength of coupling mechanism	4.5.6 (2-6)	4	48

NOTES

1 Unless otherwise indicated, the details, measurements and performance requirements are given in table 4.

2 To satisfy the qualification approval requirements of the detail specification there shall be no failures of any in the sample groups for any test parameter. If a failure does occur this shall be investigated and the cause of failure identified and corrected. The test which is affected shall then be repeated using the minimum sample size stated in this detail specification.

A fully documented test report and supporting data shall be prepared and shall be available for inspection. Failures and the corrective action taken to eliminate failures shall be documented and evidence shall be presented to show that the corrective action will have no detrimental effect on the performance in any of the other tests. Design changes, as opposed to improvements in quality control, will usually be deemed to necessitate a repeat of the full qualification programme.

3 *n* = sample size (number of plugs); *p* = periodicity in months.

4 Only group C1 and D1 tests shall be carried out using a reference connector. All other tests shall be carried out using the samples from the relevant group at random.

TABLE 4

DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS

Visual examination 4.4.1 (61300-3-1)

Requirements:

– Marking shall be clear

Dimensions 4.4.2 (61300-3-1)

Gauge retention force (61300-3-33)

Requirements:

– All size dimensions shall be in accordance with this specification

Attenuation 4.4.7 (61300-3-4)

Details:

– Method No. 8
– Definitions of reference components are as follows:

Reference plug

Reference plug shall be in accordance with IEC 60874-14-5 (SC PC untuned) for variants 1001 to 1004
IEC 60874-14-6 (SC APC 9° untuned)
IEC 60874-14-10 (SC APC 8° untuned) for variants 1005 to 1008

Reference adaptor

The reference adaptor is a selected low-loss adaptor. The selection criterion that must be met is: using two reference plugs and the adaptor, 10 repeated measurements of attenuation with direction insertion of the plugs alternated between measurements will give a maximum attenuation less than 0,1 dB.

– Number of measurements to be averaged: 5
– Source: LD
– Peak wavelength: 1,3 μm
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material
– Length L1: 2 m
– Length L2: 2 m
– Recovery procedure: none

Requirements:

– Allowable attenuation: less than 0,2 dB against two reference plugs

Cold 4.5.17 (61300-2-17)

Details:

– Temperature: –10 °C
– Duration: 96 h
– Specimen optically functioning
– Conditioning procedure: specimen lowered to test temperature and returned to room temperature at a rate not to exceed 1°/min
– Deviations: none
– Plug shall be in accordance with:
  IEC 60874-14-5 (SC-PC untuned) for variants 1001 to 1004
  IEC 60874-14-6 (SC-APC 9° untuned) or
  IEC 60874-14-10 (SC-APC 8° untuned) for variants 1005 to 1008
– Monitoring method of attenuation and return loss shall be in accordance with IEC 61300-3-20
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: after tests, specimens shall be maintained at room temperature condition for 2 h
– Clean ferrule endface and inside of alignment sleeve using lint free material before final measurement

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Measurements and performance requirements during test:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

(continued)

TABLE 4 (continued)

DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS

Dry heat 4.5.18 (61300-2-18)

Details:

– Temperature: 60 °C
– Duration: 96 h
– Specimen optically functioning.
– Conditioning procedure: specimen raised to test temperature and returned to room temperature at a rate not to exceed 1°/min.
– Deviations: none
– Plug shall be in accordance with:
  IEC 60874-14-5 (SC-PC untuned) for variants 1001 to 1004
  IEC 60874-14-6 (SC-APC 9° untuned) or
  IEC 60874-14-10 (SC-APC 8° untuned) for variants 1005 to 1008
– Monitoring method of attenuation and return loss shall be in accordance with IEC 61300-3-20
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: after tests, specimens shall be maintained at room temperature condition for 2 h
  Clean ferrule endface and inside of alignment sleeve using lint free material before final measurement

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Measurements and performance requirements during test:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

Damp heat (steady state) 4.5.19 (61300-2-19)

Details:

– Temperature: 40 °C
– Relative humidity: 90-95 %
– Duration: 96 h
– Precautions regarding surface moisture removal: none
– Specimen optically functioning
– Conditioning procedure: specimen raised to test temperature and returned to room temperature at a rate not to exceed 1°/min
– Deviations: none
– Plug shall be in accordance with:
  IEC 60874-14-5 (SC-PC untuned) for variants 1001 to 1004
  IEC 60874-14-6 (SC-APC 9° untuned) or
  IEC 60874-14-10 (SC-APC 8° untuned) for variants 1005 to 1008
– Monitoring method of attenuation and return loss shall be in accordance with IEC 61300-3-20
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: after tests, specimens shall be maintained at room temperature condition for 2 h.
  Clean ferrule endface and inside of alignment sleeve using lint free material before final measurement

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Measurements and performance requirements during test:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

(continued)

TABLE 4 (continued)

DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS

Strength of coupling mechanism 4.5.6 (61300-2-6)

Details:

– Magnitude: 68,6 N
– Rate of application of the tensile load: 50 N/min < load rate < 250 N/min
– Point of application of the tensile load: 22-28 cm from connector
– Specimen optically non-functioning
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: clean ferrule endface and inside of alignment sleeve using lint free material before final measurement
– Deviations: none
– Plug shall be in accordance with:
  IEC 60874-14-5 (SC-PC untuned) for variants 1001 to 1004
  IEC 60874-14-6 (SC-APC 9° untuned) or
  IEC 60874-14-10 (SC-APC 8° untuned) for variants 1005 to 1008
– Both sides of adaptor shall be tested

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB
– The specimen has no mechanical damage

Mechanical endurance 4.5.32 (61300-2-2)

Details:

– Cycles: 500
– Specimen optically functioning
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: clean ferrule endface and inside of alignment sleeve using lint free material after 25 matings
– Deviations: none
– Plug shall be in accordance with:
  IEC 60874-14-5 (SC-PC untuned) for variants 1001 to 1004
  IEC 60874-14-6 (SC-APC 9° untuned) or
  IEC 60874-14-10 (SC-APC 8° untuned) for variants 1005 to 1008
– Both sides of adaptor shall be tested
– Monitoring method of attenuation and return loss shall be in accordance with IEC 61300-3-20

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Measurements and performance requirements during test:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

Engagement and separation force 4.5.4 (61300-3-11)

Details:

– Preconditioning procedure: none
– Deviation: as necessary
– Plug shall be in accordance with:
  IEC 60874-14-5 (SC-PC untuned) for variants 1001 to 1004
  IEC 60874-14-6 (SC-APC 9° untuned) or
  IEC 60874-14-10 (SC-APC 8° untuned) for variants 1005 to 1008
– Both side of adaptor shall be measured

Requirements:

– Allowable engagement force: max. 19,6 N
– Allowable separation force: max. 19,6 N

(continued)

TABLE 4 (concluded)

DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS

Change of temperature (test Nb) 4.5.22 (61300-2-22)

Details:

– Test method: Nb
– High temperature: 60 °C
– Low temperature: –10 °C
– Duration of extreme temperature: 30 min
– Changeover time: 0,5 min
– Number of cycles: 5
– Specimen optically functioning
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: after test, specimens shall be maintained at room temperature condition for 2 h. Clean ferrule endface and inside of alignment sleeve using lint free material before final measurement
– Deviation: none
– Monitoring method of attenuation and return loss shall be in accordance with IEC 61300-3-20
– Plug shall be in accordance with:
  IEC 60874-14-5 (SC-PC untuned) for variants 1001 to 1004
  IEC 60874-14-6 (SC-APC 9° untuned) or
  IEC 60874-14-10 (SC-APC 8° untuned) for variants 1005 to 1008

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Measurements and performance requirements during test:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

Vibration 4.5.1 (61300-2-1)

Details:

– Frequency range: 10-55 Hz
– Vibration amplitude: 0,75 mm constant displacement
– Sweep time: 1 octave/min
– Endurance duration per axis: 30 min
– Method of mounting: an adaptor shall be mounted rigidly to the mounting fixture
– Specimen optically non-functioning
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: clean ferrule endface and inside of alignment sleeve using lint free material before final measurement
– Deviation: none
– Plug shall be in accordance with:
  IEC 60874-14-5 (SC-PC untuned) for variants 1001 to 1004
  IEC 60874-14-6 (SC-APC 9° untuned) or
  IEC 60874-14-10 (SC-APC 8° untuned) for variants 1005 to 1008

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– Change in attenuation: less than 0,2 dB

———————

Standards Survey

We at the IEC want to know how our standards are used once they are published.

The answers to this survey will help us to improve IEC standards and standard related information to meet your future needs

Would you please take a minute to answer the survey on the other side and mail or fax to:

Customer Service Centre (CSC)

International Electrotechnical Commission
3, rue de Varembé
Case postale 131

1211 Geneva 20
Switzerland

or

Fax to: CSC at +41 22 919 03 00

Thank you for your contribution to the standards making process.

Nicht frankieren
Ne pas affranchir

Non affrancare
No stamp required

A Prioritaire

RÉPONSE PAYÉE

SUISSE

Customer Service Centre (CSC)
International Electrotechnical Commission
3, rue de Varembé
Case postale 131
1211 GENEVA 20
Switzerland

1.

No. of IEC standard:

.....

2.

Tell us why you have the standard. (check as many as apply). I am:

- ☐ the buyer
- ☐ the user
- ☐ a librarian
- ☐ a researcher
- ☐ an engineer
- ☐ a safety expert
- ☐ involved in testing
- ☐ with a government agency
- ☐ in industry
- ☐ other.....

3.

This standard was purchased from?

.....

4.

This standard will be used (check as many as apply):

- ☐ for reference
- ☐ in a standards library
- ☐ to develop a new product
- ☐ to write specifications
- ☐ to use in a tender
- ☐ for educational purposes
- ☐ for a lawsuit
- ☐ for quality assessment
- ☐ for certification
- ☐ for general information
- ☐ for design purposes
- ☐ for testing
- ☐ other.....

5.

This standard will be used in conjunction with (check as many as apply):

- ☐ IEC
- ☐ ISO
- ☐ corporate
- ☐ other (published by.....)
- ☐ other (published by.....)
- ☐ other (published by.....)

6.

This standard meets my needs (check one)

- ☐ not at all
- ☐ almost
- ☐ fairly well
- ☐ exactly

7.

Please rate the standard in the following areas as (1) bad, (2) below average, (3) average, (4) above average, (5) exceptional, (0) not applicable:

- ☐ clearly written
- ☐ logically arranged
- ☐ information given by tables
- ☐ illustrations
- ☐ technical information

8.

I would like to know how I can legally reproduce this standard for:

- ☐ internal use
- ☐ sales information
- ☐ product demonstration
- ☐ other.....

9.

In what medium of standard does your organization maintain most of its standards (check one):

- ☐ paper
- ☐ microfilm/microfiche
- ☐ mag tapes
- ☐ CD-ROM
- ☐ floppy disk
- ☐ on line

9A.

If your organization currently maintains part or all of its standards collection in electronic media, please indicate the format(s):

- ☐ raster image
- ☐ full text

10.

In what medium does your organization intend to maintain its standards collection in the future (check all that apply):

- ☐ paper
- ☐ microfilm/microfiche
- ☐ mag tape
- ☐ CD-ROM
- ☐ floppy disk
- ☐ on line

10A.

For electronic media which format will be chosen (check one)

- ☐ raster image
- ☐ full text

11.

My organization is in the following sector (e.g. engineering, manufacturing)

.....

12.

Does your organization have a standards library:

- ☐ yes
- ☐ no

13.

If you said yes to 12 then how many volumes:

.....

14.

Which standards organizations published the standards in your library (e.g. ISO, DIN, ANSI, BSI, etc.):

.....

15.

My organization supports the standards-making process (check as many as apply):

- ☐ buying standards
- ☐ using standards
- ☐ membership in standards organization
- ☐ serving on standards development committee
- ☐ other.....

16.

My organization uses (check one)

- ☐ French text only
- ☐ English text only
- ☐ Both English/French text

17.

Other comments:

.....

.....

.....

.....

.....

.....

18.

Please give us information about you and your company

name: .....

job title:.....

company: .....

address:.....

.....

.....

.....

No. employees at your location:.....

turnover/sales:.....

Publications de la CEI préparées par le Comité d'Etudes n° 86

60793:— Fibres optiques.

60793-1 (1992) Partie 1: Spécification générique.

60793-1-1 (1995) Partie 1: Spécification générique – Section 1: Généralités.

60793-1-2 (1995) Partie 1: Spécification générique – Section 2: Méthodes de mesure des dimensions.
Amendement 1 (1996).

60793-1-3 (1995) Partie 1: Spécification générique – Section 3: Méthodes de mesure des caractéristiques mécaniques.
Amendement 1 (1996).

60793-1-4 (1995) Partie 1: Spécification générique – Section 4: Méthodes de mesure des caractéristiques optiques et de transmission.
Amendement 1 (1996).

60793-1-5 (1995) Partie 1: Spécification générique – Section 5: Méthodes de mesure des caractéristiques d'environnement.

60793-2 (1992) Partie 2: Spécifications de produit.
Amendement 1 (1995).

60794:— Câbles à fibres optiques.

60794-1 (1996) Partie 1: Spécification générique.

60794-2 (1989) Deuxième partie: Spécifications de produit.

60794-3 (1994) Partie 3: Câbles de télécommunication – Spécification intermédiaire.

60869:— Atténuateurs à fibres optiques.

60869-1 (1994) Partie 1: Spécification générique.

60869-1-1 (1994) Partie 1-1: Spécification particulière-cadre.

60874-0 (1988) Connecteurs pour fibres et câbles optiques. Partie zéro: Guide pour l'élaboration des spécifications intermédiaires.

60874-1 (1993) Partie 1: Spécification générique.
Amendement 1 (1994).

60874-1-1 (1994) Partie 1-1: Spécification particulière cadre – Catégories d'environnement.

60874-2 (1993) Partie 2: Spécification intermédiaire pour connecteur pour fibres optiques – Type F-SMA.

60874-3 (1993) Partie 3: Spécification intermédiaire pour connecteur pour fibres optiques – Type CFO3.

60874-4 (1993) Partie 4: Spécification intermédiaire pour connecteur pour fibres optiques – Type CFO4.

60874-5 (1993) Partie 5: Spécification intermédiaire pour connecteur pour fibres optiques – Type BAM.

60874-6 (1993) Partie 6: Spécification intermédiaire pour connecteur pour fibres optiques – Type LSA.

60874-7 (1993) Partie 7: Spécification intermédiaire pour connecteur pour fibres optiques – Type FC.

60874-8 (1993) Partie 8: Spécification intermédiaire pour connecteur pour fibres optiques – Type D.

60874-9 (1993) Partie 9: Spécification intermédiaire pour connecteur pour fibres optiques de type OF-2.

60874-10 (1992) Partie 10: Spécification intermédiaire pour connecteur pour fibres optiques – Type BFOC/2,5.

60874-10-1 (1997) (Publiée en langue anglaise uniquement).

60874-10-2 (1997) (Publiée en langue anglaise uniquement).

60874-10-3 (1997) (Publiée en langue anglaise uniquement).

60874-11 (1993) Partie 11: Spécification intermédiaire pour connecteur pour fibres optiques – Type OCCA-PC.

(suite)

IEC publications prepared by Technical Committee No. 86

60793:— Optical fibres.

60793-1 (1992) Part 1: Generic specification.

60793-1-1 (1995) Part 1: Generic specification – Section 1: General.

60793-1-2 (1995) Part 1: Generic specification – Section 2: Measuring methods for dimensions.
Amendment 1 (1996).

60793-1-3 (1995) Part 1: Generic specification – Section 3: Measuring methods for mechanical characteristics.
Amendment 1 (1996).

60793-1-4 (1995) Part 1: Generic specification – Section 4: Measuring methods for transmission and optical characteristics.
Amendment 1 (1996).

60793-1-5 (1995) Part 1: Generic specification – Section 5: Measuring methods for environmental characteristics.

60793-2 (1992) Part 2: Product specifications.
Amendment 1 (1995).

60794:— Optical fibre cables.

60794-1 (1996) Part 1: Generic specification.

60794-2 (1989) Part 2: Product specifications.

60794-3 (1994) Part 3: Telecommunication cables – Sectional specification.

60869:— Fibre optic attenuators.

60869-1 (1994) Part 1: Generic specification.

60869-1-1 (1994) Part 1-1: Blank detail specification.

60874-0 (1988) Connectors for optical fibres and cables. Part 0: Guide for the construction of sectional specifications.

60874-1 (1993) Part 1: Generic specification.
Amendment 1 (1994).

60874-1-1 (1994) Part 1-1: Blank detail specification – Environmental categories.

60874-2 (1993) Part 2: Sectional specification for fibre optic connector – Type F-SMA.

60874-3 (1993) Part 3: Sectional specification for fibre optic connector – Type CFO3.

60874-4 (1993) Part 4: Sectional specification for fibre optic connector – Type CFO4.

60874-5 (1993) Part 5: Sectional specification for fibre optic connector – Type BAM.

60874-6 (1993) Part 6: Sectional specification for fibre optic connector – Type LSA.

60874-7 (1993) Part 7: Sectional specification for fibre optic connector – Type FC.

60874-8 (1993) Part 8: Sectional specification for fibre optic connector – Type D.

60874-9 (1993) Part 9: Sectional specification for fibre optic connector – Type OF-2.

60874-10 (1992) Part 10: Sectional specification for fibre optic connector – Type BFOC/2,5.

60874-10-1 (1997) Part 10-1: Detail specification for fibre optic connector type BFOC/2,5 terminated to multimode fibre type A1.

60874-10-2 (1997) Part 10-2: Detail specification for fibre optic connector type BFOC/2,5 terminated to single-mode fibre type B1.

60874-10-3 (1997) Part 10-3: Detail specification for fibre optic adaptor type BFOC/2,5 for single and multimode fibre.

60874-11 (1993) Part 11: Sectional specification for fibre optic connector – Type OCCA-PC.

(continued)

Publications de la CEI préparées par le Comité d'Etudes n° 86 *(suite)*

60874-12 (1993) Partie 12: Spécification intermédiaire pour connecteur pour fibres optiques – Type OCCA-BU.

60874-13 (1993) Partie 13: Spécification intermédiaire pour connecteur pour fibres optiques – Type CFO8.

60874-14 (1993) Partie 14: Spécification intermédiaire pour connecteur pour fibres optiques – Type SC.

60874-14-1 (1997) (Publiée en langue anglaise uniquement).

60874-14-2 (1997) (Publiée en langue anglaise uniquement).

60874-14-3 (1997) (Publiée en langue anglaise uniquement).

60874-14-4 (1997) (Publiée en langue anglaise uniquement).

60874-14-5 (1997) (Publiée en langue anglaise uniquement).

60874-14-6 (1997) (Publiée en langue anglaise uniquement).

60874-14-7 (1997) (Publiée en langue anglaise uniquement).

60874-15 (1994) Partie 15: Spécification intermédiaire pour connecteur pour fibres optiques – Type DS.

60874-16 (1994) Partie 16: Spécification intermédiaire pour connecteur pour fibres optiques – Type MT.

60874-17 (1995) Partie 17: Spécification intermédiaire pour connecteur pour fibres optiques – Type F-05 (verrouillage par friction).

60874-19 (1995) Partie 19: Spécification intermédiaire pour connecteur pour fibres optiques – Type SC-D(uplex).

60875:— Dispositifs de couplage pour fibres optiques.

60875-1 (1996) Partie 1: Spécification générique.

60875-1-1 (1996) Partie 1-1: Spécification particulière cadre.

60875-2 (1992) Partie 2: Spécification intermédiaire: Dispositifs de couplage ne dépendant pas de la longueur d'onde.

60875-3 (1992) Partie 3: Spécification intermédiaire: Dispositifs de couplage dépendant de la longueur d'onde.

60876:- Commutateurs à fibres optiques.

60876-1 (1994) Première partie: Spécification générique.

61073: — Epissures pour câbles et fibres optiques.

61073-1 (1994) Partie 1: Spécification générique – Matériel de montage et accessoires.

61073-2 (1993) Partie 2: Spécification intermédiaire de répartiteurs et boîtiers pour fibres et câbles optiques.

6173-3 (1993) Partie 3: Spécification intermédiaire – Epissures par fusion pour fibres et câbles optiques.

61073-4 (1994) Partie 4: Spécification intermédiaire – Epissures mécaniques pour fibres et câbles optiques.

61202: — Isolateurs pour fibres optiques.

61202-1 (1994) Partie 1 : Spécification générique.

61202-1-1 (1994) Partie 1-1: Spécification particulière cadre

61218 (1993) Fibres optiques – Guide de sécurité.

61269: — Jeux d'embouts pour fibres optiques.

61269-1 (1994) Partie 1: Spécification générique.

61269-1-1 (1994) Partie 1-1: Spécification particulière cadre.

61274: — Raccords pour fibres optiques.

61274-1 (1994) Partie 1: Spécification générique.

61274-1-1 (1994) Partie 1-1: Spécification particulière cadre.

(suite)

IEC publications prepared by Technical Committee No. 86 *(continued)*

60874-12 (1993) Part 12: Sectional specification for fibre optic connector – Type OCCA-BU.

60874-13 (1993) Part 13: Sectional specification for fibre optic connector – Type CFO8.

60874-14 (1993) Part 14: Sectional specification for fibre optic connector – Type SC.

60874-14-1 (1997) Part 14-1: Detail specification for fibre optic connector type SC-PC standard terminated to multimode fibre type A1a, A1b.

60874-14-2 (1997) Part 14-2: Detail specification for fibre optic connector type SC-PC tuned terminated to single-mode fibre type B1.

60874-14-3 (1997) Part 14-3: Detail specification for fibre optic adaptor (simplex) type SC for single-mode fibre.

60874-14-4 (1997) Part 14-4: Detail specification for fibre optic adaptor (simplex) type SC for multimode fibre.

60874-14-5 (1997) Part 14-5: Detail specification for fibre optic connector type SC-PC untuned terminated to single-mode fibre type B1.

60874-14-6 (1997) Part 14-6: Detail specification for fibre optic connector type SC-APC 9° untuned terminated to single-mode fibre type B1.

60874-14-7 (1997) Part 14-7: Detail specification for fibre optic connector type SC-APC 9° tuned terminated to single-mode fibre type B1.

60874-15 (1994) Part 15: Sectional specification for fibre optic connector – Type DS.

60874-16 (1994) Part 16: Sectional specification for fibre optic connector – Type MT.

60874-17 (1995) Part 17: Sectional specification for fibre optic connector – Type F-05 (friction lock).

60874-19 (1995) Part 19: Sectional specification for fibre optic connector – Type SC-D(uplex).

60875:— Fibre optic branching devices.

60875-1 (1996) Part 1: Generic specification.

60875-1-1 (1996) Part 1-1: Blank detail specification.

60875-2 (1992) Part 2: Sectional specification: Non-wavelength selective branching device.

60875-3 (1992) Part 3: Sectional specification: Wavelength selective branching devices.

60876:— Fibre optic switches.

60876-1 (1994) Part 1: Generic specification.

61073: — Splices for optical fibres and cables.

61073-1 (1994) Part 1: Generic specification – Hardware and accessories.

61073-2 (1993) Part 2: Sectional specification for splice organizer and closures for optical fibres and cables.

61073-3 (1993) Part 3: Sectional specification – Fusion splices for optical fibres and cables.

61073-4 (1994) Part 4: Sectional specification – Mechanical splices for optical fibres and cables.

61202: — Fibre optic isolators.

61202-1 (1994) Part 1 : Generic specification.

61202-1-1 (1994) Part 1-1: Blank detail specification.

61218 (1993) Fibre optic – Safety guide.

61269: — Fibre optic terminus sets.

61269-1 (1994) Part 1: Generic specification.

61269-1-1 (1994) Part 1-1: Blank detail specification.

61274: — Fibre optic adaptors.

61274-1 (1994) Part 1: Generic specification.

61274-1-1 (1994) Part 1-1: Blank detail specification.

(continued)

Publications de la CEI préparées par le Comité d'Etudes n° 86 *(suite)*

61300:— Dispositifs d'interconnexion et composants passifs à fibres optiques – Méthodes fondamentales d'essais et de mesures.

61300-1 (1995) Partie 1: Généralités et guide.

61300-2-1 (1995) Partie 2-1: Essais – Vibrations (sinusoïdales).

61300-2-2 (1995) Partie 2-2: Essais – Durabilité de l'accouplement.

61300-2-3 (1995) Partie 2-3: Essais – Charge statique de cisaillement.

61300-2-4 (1995) Partie 2-4: Essais – Rétention de la fibre ou du câble.

61300-2-5 (1995) Partie 2-5: Essais – Torsion/rotation.

61300-2-6 (1995) Partie 2-6: Essais – Résistance à la traction du mécanisme de verrouillage.

61300-2-7 (1995) Partie 2-7: Essais – Moment de flexion.

61300-2-8 (1995) Partie 2-8: Essais – Secousses.

61300-2-9 (1995) Partie 2-9: Essais – Chocs.

61300-2-10 (1995) Partie 2-10: Essais – Résistance à la compression.

61300-2-11 (1995) Partie 2-11: Essais – Compression axiale.

61300-2-12 (1995) Partie 2-12: Essais – Impact.

61300-2-13 (1995) Partie 2-13: Essais – Accélération.

61300-2-14 (1997) Partie 2-14: Essais – Puissance d'entrée maximale.

61300-2-15 (1995) Partie 2-15: Essais – Robustesse du mécanisme de verrouillage aux efforts de torsion.

61300-2-16 (1995) Partie 2-16: Essais – Moisissures.

61300-2-17 (1995) Partie 2-17: Essais – Froid.

61300-2-18 (1995) Partie 2-18: Essais – Chaleur sèche – Résistance à haute température.

61300-2-19 (1995) Partie 2-19: Essais – Chaleur humide (essai continu).

61300-2-20 (1995) Partie 2-20: Essais – Séquence climatique.

61300-2-21 (1995) Partie 2-21: Essais – Essai cyclique composite de température et d'humidité.

61300-2-22 (1995) Partie 2-22: Essais – Variations de température.

61300-2-23 (1995) Partie 2-23: Essais – Etanchéité pour les boîtiers non pressurisés de dispositifs à fibres optiques.

61300-2-25 (1995) Partie 2-25: Essais – Résistance de l'étanchéité pour les boîtiers.

61300-2-26 (1995) Partie 2-26: Essais – Brouillard salin.

61300-2-27 (1995) Partie 2-27: Essais – Poussière – Ecoulement laminaire.

61300-2-28 (1995) Partie 2-28: Essais – Atmosphère industrielle (anhydride sulfureux).

61300-2-29 (1995) Partie 2-29: Essais – Basse pression atmosphérique.

61300-2-30 (1995) Partie 2-30: Essais – Rayonnement solaire.

61300-2-31 (1995) Partie 2-31: Essais – Rayonnement nucléaire.

61300-2-32 (1995) Partie 2-32: Essais – Résistance à la vapeur d'eau.

61300-2-33 (1995) Partie 2-33: Essais – Montage et démontage des boîtiers.

61300-2-34 (1995) Partie 2-34: Essais – Résistance aux solvants et aux fluides contaminants.

61300-2-35 (1995) Partie 2-35: Essais – Rotation du câble.

61300-2-36 (1995) Partie 2-36: Essais – Inflammabilité (risques d'incendie).

61300-2-37 (1995) Partie 2-37: Essais – Efforts de flexion sur le câble pour les boîtiers.

61300-2-38 (1995) Partie 2-38: Essais – Etanchéité pour les boîtiers pressurisés de dispositifs à fibres optiques.

61300-2-39 (1997) Partie 2-39: Essais – Sensibilité aux champs magnétiques externes.

61300-3-1 (1995) Partie 3-1: Examens et mesures – Examen visuel

(suite)

IEC publications prepared by Technical Committee No. 86 *(continued)*

61300:— Fibre optic interconnecting devices and passive components – Basic test and measurement procedures.

61300-1 (1995) Part 1: General and guidance.

61300-2-1 (1995) Part 2-1: Tests – Vibration (sinusoidal).

61300-2-2 (1995) Part 2-2: Tests – Mating durability.

61300-2-3 (1995) Part 2-3: Tests – Static shear load.

61300-2-4 (1995) Part 2-4: Tests – Fibre/cable retention.

61300-2-5 (1995) Part 2-5: Tests – Torsion/twist.

61300-2-6 (1995) Part 2-6: Tests – Tensile strength of coupling mechanism.

61300-2-7 (1995) Part 2-7: Tests – Bending moment.

61300-2-8 (1995) Part 2-8: Tests – Bump.

61300-2-9 (1995) Part 2-9: Tests – Shock.

61300-2-10 (1995) Part 2-10: Tests – Crush resistance.

61300-2-11 (1995) Part 2-11: Tests – Axial compression.

61300-2-12 (1995) Part 2-12: Tests – Impact.

61300-2-13 (1995) Part 2-13: Tests – Acceleration.

61300-2-14 (1997) Part 2-14: Tests – Maximum input power.

61300-2-15 (1995) Part 2-15: Tests – Torque strength of coupling mechanism.

61300-2-16 (1995) Part 2-16: Tests – Mould growth.

61300-2-17 (1995) Part 2-17: Tests – Cold.

61300-2-18 (1995) Part 2-18: Tests – Dry heat – High temperature endurance.

61300-2-19 (1995) Part 2-19: Tests – Damp heat (steady state).

61300-2-20 (1995) Part 2-20: Tests – Climatic sequence.

61300-2-21 (1995) Part 2-21: Tests – Composite temperature-humidity composite test.

61300-2-22 (1995) Part 2-22: Tests – Change of temperature.

61300-2-23 (1995) Part 2-23: Tests – Sealing for non-pressurized closures of fibre optic devices.

61300-2-25 (1995) Part 2-25: Tests – Sealing endurance for closures.

61300-2-26 (1995) Part 2-26: Tests – Salt mist.

61300-2-27 (1995) Part 2-27: Tests – Dust – Laminar flow.

61300-2-28 (1995) Part 2-28: Tests – Industrial atmosphere (sulphur di-oxide).

61300-2-29 (1995) Part 2-29: Tests – Low air pressure.

61300-2-30 (1995) Part 2-30: Tests – Solar radiation.

61300-2-31 (1995) Part 2-31: Tests – Nuclear radiation.

61300-2-32 (1995) Part 2-32: Tests – Water vapour permeation.

61300-2-33 (1995) Part 2-33: Tests – Assembly and disassembly of closures.

61300-2-34 (1995) Part 2-34: Tests – Resistance to solvents and contaminating fluids.

61300-2-35 (1995) Part 2-35: Tests – Cable nutation.

61300-2-36 (1995) Part 2-36: Tests – Flammability (fire hazard).

61300-2-37 (1995) Part 2-37: Tests – Cable bending for closures.

61300-2-38 (1995) Part 2-38: Tests – Sealing for pressurized closures of fibre optic devices.

61300-2-39 (1997) Part 2-39: Tests – Susceptibility to external magnetic fields.

61300-3-1 (1995) Part 3-1: Examinations and measurements – Visual examination.

(continued)

Publications de la CEI préparées par le Comité d'Etudes n° 86 *(suite)*

61300-3-2 (1995) Partie 3-2: Examens et mesures – Dépendance de la polarisation d'un dispositif pour fibres optiques monomodes.

61300-3-3 (1997) Partie 3-3: Examens et mesures – Contrôle de la variation de l'affaiblissement et de la puissance réfléchie (voies multiples).

61300-3-6 (1997) Partie 3-6: Puissance réfléchie.

61300-3-8 (1995) Partie 3-8: Examens et mesures – Immunité à l'éclairement extérieur.

61300-3-9 (1997) Partie 3-9: Télédiaphonie.

61300-3-10 (1995) Partie 3-10: Examens et mesures – Force de rétention du calibre.

61300-3-11 (1995) Partie 3-11: Examens et mesures – Force d'accouplement et de désaccouplement.

61300-3-12 (1997) Partie 3-12: Sensibilité à la polarisation de l'affaiblissement d'un composant à fibres optiques monomodes: Méthode de calcul matriciel.

61300-3-13 (1995) Partie 3-13: Examens et mesures – Stabilité de contrôle d'un interrupteur pour fibres optiques.

61300-3-14 (1995) Partie 3-14: Examens et mesures – Précision et répétabilité des positions d'affaiblissement d'un atténuateur variable.

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61300-3-16 (1995) Partie 3-16: Examens et mesures – Rayon de la face terminale des embouts polis sphériquement.

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