INTERNATIONAL STANDARD

IEC 60874-10-2

QC 910003XX0002

First edition
1997-06

Connectors for optical fibres and cables –

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

Reference number
IEC 60874-10-2: 1997(E)

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IEC publications prepared by the same technical committee

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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CONNECTORS FOR OPTICAL FIBRES AND CABLES –

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

FOREWORD

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International Standard IEC 60874-10-2 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/869/FDIS	86B/999/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 10-2: Detail specification for fibre optic connector type BFOC/2,5 terminated to single mode fibre type B1

NATIONAL STANDARDS ORGANIZATION:	..... Date: .....

DETAIL SPECIFICATION IEC QC 910003XX0002.
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)

CONNECTOR SET FOR OPTICAL FIBRES AND CABLES

CLASSIFICATION:
Type: Name: BFOC/2.5
Configuration: plug-adaptor-plug
Coupling: bayonet
Control dimensions:
– Plug: see figures 1, 2 and 3
– Adaptor: see IEC 60874-10-3
Arrangement: patchcord arrangement

Style: Fibre retention: as required
Cable retention: as required
Optical coupling: butting

Variants: see page 6

Climatic category: 10/60/4

Environmental category: 4

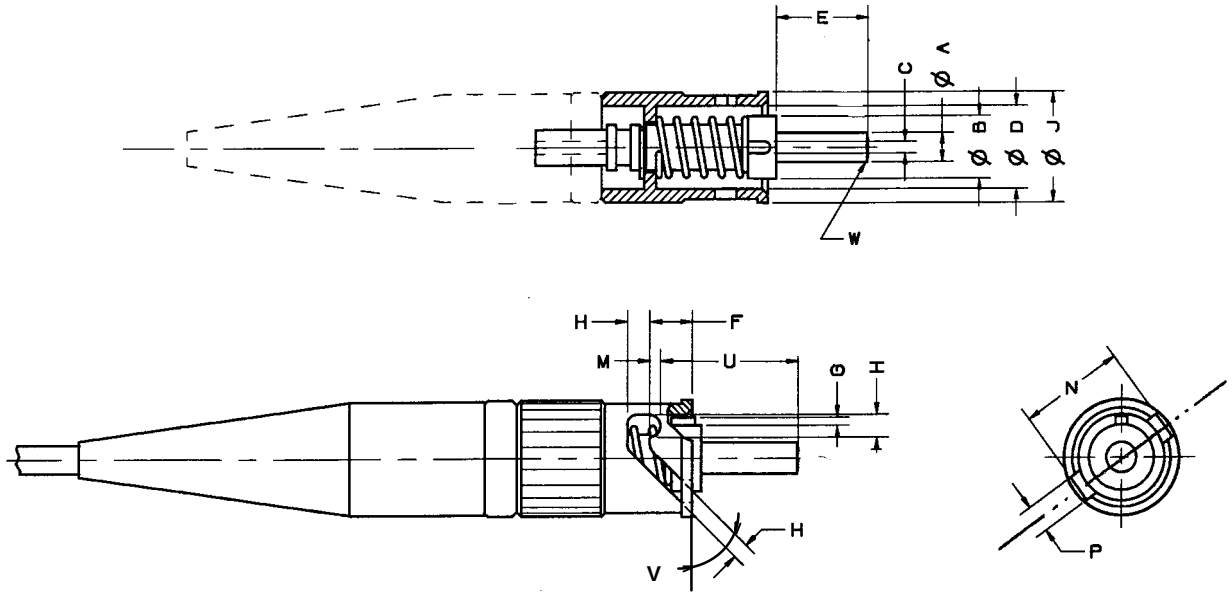
Assessment level: A

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.

Applicable fibre cable information	
Mode field diameter	In accordance with IEC 60793-2
Cladding diameter	In accordance with IEC 60793-2
Buffer diameter	250 ± 15, 500 ± 30, 900 ± 50 µm
Jacket outer diameter	As required per variant
Fibre cut-off wavelength	1 100-1 280

Additional information
– Attenuation in random connection:
• less than 0,80 dB (95 % probability)
• less than 0,40 dB (average)



IEC 666/97

Reference	Dimensions		Notes
	Minimum	Maximum	
A	2,4985 mm	2,4995 mm	
B	5,25 mm	5,46 mm	
C	0,91 mm	1,07 mm	
D	7,06 mm	7,24 mm	
E	7,75 mm	8,00 mm	
F	2,56 mm	4,50 mm	
G	0,58 mm	0,76 mm	
H	1,60 mm	3,2 mm	
J	9,40 mm	9,65 mm	
K	0,59 mm	0,89 mm	
M	0,60 mm	1,12 mm	
N	8,56 mm		
P	1,60 mm	3,2 mm	
U	9,54 mm	11,11 mm	1
V	37°	90°	

NOTES

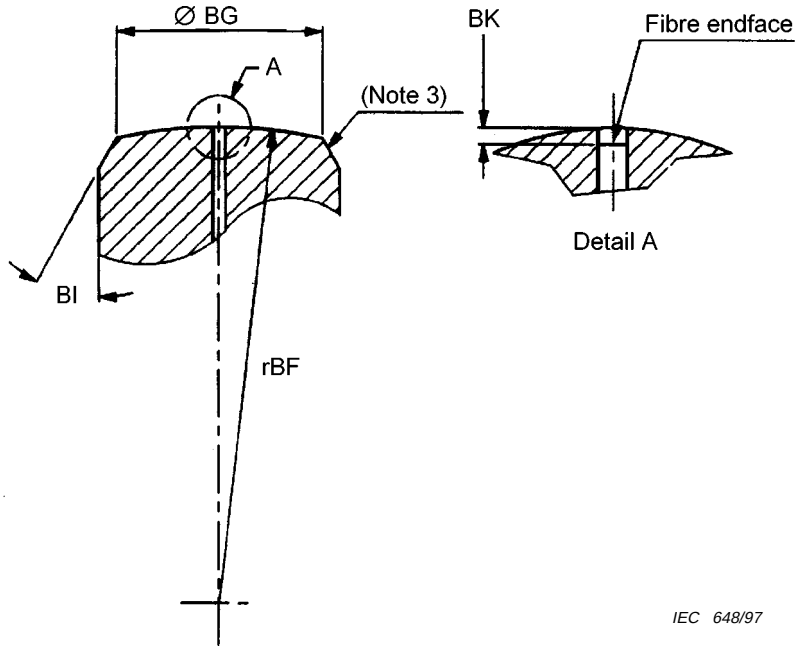
1 Ferrule compression forces shall be from 7,0 to 15,0 N when the ferrule is compressed to a point where U is in the range specified.

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

3 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.

4 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 – Plug outline and mating face dimensions



Reference	Dimensions		Notes
	Minimum	Maximum	
rBF	10 mm	25 mm	1
BK	–0,0001 mm	see graph	2
BG	1,90 mm	2,26 mm	diameter
BI	25°	35°	

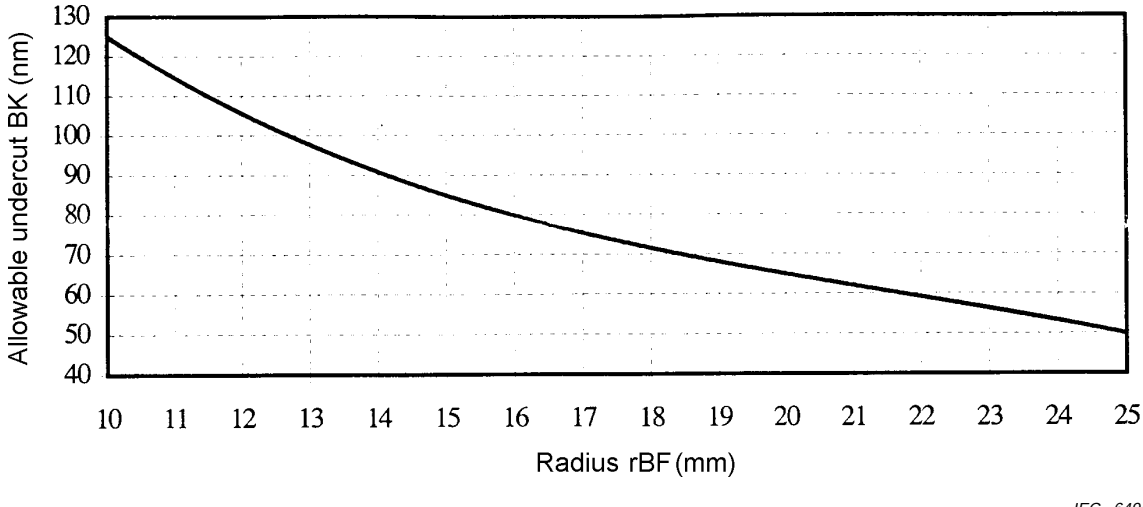
NOTES

1 Eccentricity of a spherical polished ferrule endface is less than 50 µm.

2 The negative dimension refers to the fibre protrusion.

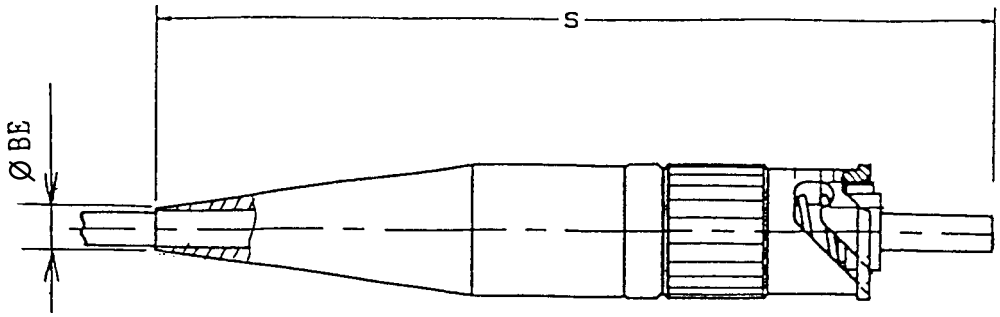
3 Break edge.

Figure 2a – Ferrule endface geometry after termination



Allowable undercut = $-0{,}02*\text{Radius}^3 + 1{,}3*\text{Radius}^2 - 31*\text{Radius} + 325$

Figure 2b – Allowable undercut BK versus radius rBF



IEC 667/97

Reference	Dimensions mm		Notes
	Minimum	Maximum	
S		60	
BE	2,2		1
BE	2,6		2
BE	2,9		3
BE	3,2		4

NOTES

1 This value is applicable to the variant number –1001.

2 This value is applicable to the variant number –1002.

3 This value is applicable to the variant number –1003.

4 This value is applicable to the variant number –1004.

Figure 3 – Plug dimension

VARIANT IDENTIFICATION NUMBERS Number: QC 910X01/0004-ZZZZ			
ZZZZ	Component name	Variant feature	
		Applicable cable jacket diameter	Ferrule material
1001	Plug	2,0 mm	Ceramic
1002	Plug	2,4 mm	Ceramic
1003	Plug	2,7 mm	Ceramic
1004	Plug	3,0 mm	Ceramic

SUPPLEMENTARY INFORMATION
Component marking: The name and manufacturer's identification mark shall be permanently identified.

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)	
Group 1		
– Attenuation	4.4.7 (3-4)	20
– Ferrule compression force	(3-22)	
– Return loss	4.4.12 (3-6)	
Group 2		
– Cold	4.5.17 (2-17)	6
– Dry heat	4.5.18 (2-18)	
– Damp heat, steady state	4.5.19 (2-19)	
Group 3		
– Drop	4.5.14 (2-12)	6
– Engagement and separation force	4.4.5 (3-11)	
– Mechanical endurance	4.5.32 (2-2)	
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
– Cable pulling	4.5.4 (2-4)	
– Cable torsion	4.5.5 (2-5)	
Group 6		
– Fibre or ferrule retention	4.5.2 (2-4)	NA

NOTES

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

2 To satisfy the qualification approval requirements of the detail specification there must be no failures of any in the sample groups for any test parameter. If a failure does occur this must be investigated and the cause of failure identified and corrected. The test which is affected must 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 must be available for inspection. Failures and the corrective action taken to eliminate failures must be documented and evidence must 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	4.4.1 (3-1)	II	4 %
– Radius	4.4.2 (3-1)		
Undercut/protrusion	(3-23)		
Eccentricity of spherical polished endface	(3-25)		
Group B			
– Attenuation	4.4.7 (3-4)	II	4 %
– Return loss	4.4.12 (3-6)		

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 attenuation 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)		
– Ferrule compression force	(3-22)		
Group C1			
– Attenuation	4.4.7 (3-4)	18	24
– Return loss	4.4.12 (3-6)		
Group C2			
– Cold	4.5.17 (2-17)	6	24
– Dry heat	4.5.18 (2-18)		
– 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)		
– Ferrule compression force	(3-22)		
Group D1			
– Attenuation	4.4.7 (3-4)	20	48
Group D2			
– Cold	4.5.17 (2-17)	6	48
– Dry heat	4.5.18 (2-18)		
– Damp heat, steady state	4.5.19 (2-19)		
Group D3			
– Drop	4.5.14 (2-12)	6	48
– Engagement and separation force	4.4.5 (3-11)		
– Mechanical endurance	4.5.2 (2-2)		
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
– Cable pulling	4.5.4 (2-4)		
– Cable torsion	4.5.5 (2-5)		
Group D6			
– Fibre or ferrule retention	4.5.2 (2-4)	NA	NA

NOTES

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

2 To satisfy the quality conformance 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 details, measurements and performance requirements are given in table 4.

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
– Coupling sleeve shall be movable smoothly

Dimensions 4.4.2 (61300-3-1)
(61300-3-15)
(61300-3-18)

Requirements:

– All size dimensions shall be in accordance with this specification.

Attenuation 4.4.7 (61300-3-4)

Details:

– Method No. 7
– Definitions of reference plug are as follows
  • Ferrule outer diameter is 2,499 ± 0,0003 mm
  • Concentricity of the fibre core with the outer diameter of the ferrule is less than 0,6 μm
  • Angular misalignment of ferrule with fibre installed is less than 0,2 degree
  • Eccentricity of a spherical polished ferrule endface is less than 30 μm
– Adaptor shall be in accordance with IEC 60874-10-3
– Number of measurements to be averaged: 5
– Source: LD
– Peak wavelength: 1,3 μm
– Preconditioning procedure: the ferrule endface of the reference plug shall be cleaned using lint free material.

Requirements:

– Allowable attenuation: less than 0,5 dB against reference plug.

Return loss 4.4.12 (61300-3-6)

Details:

– Source: LD
– Peak wavelength: 1,3 μm
– Adaptor shall be in accordance with IEC 60874-10-3

Requirements

– Return loss: 26 dB minimum

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
– Adaptor shall be in accordance with IEC 60874-10-3
– Monitoring method of attenuation shall be in accordance with IEC 61300-3-20
– Change in attenuation during test: less than 0,2 dB
– Return loss during test: 26 dB minimum

(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
– Adaptor shall be in accordance with IEC 60874-10-3
– Monitoring method of attenuation and return loss shall be in accordance with IEC 61300-3-20
– Change in attenuation during test: less than 0,2 dB
– Return loss during test: 26 dB minimum

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
– Adaptor shall be in accordance with IEC 60874-10-3
– Monitoring method of attenuation and return loss shall be in accordance with IEC 61300-3-20
– Change in attenuation during test: less than 0,2 dB
– Return loss during test: 26 dB minimum

Cable pulling 4.5.4 (61300-2-4)

Details:

– Magnitude: 90 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 the connector
– Specimen optically non-functioning
– Preconditioning procedure: clean endface before testing
– Recovery procedure: none
– Deviation: none

Adaptor shall be in accordance with IEC 60874-10-3

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– The specimen has no mechanical damage

(continued)

TABLE 4 (continued)

DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS

Cable torsion 4.5.5 (61300-2-5)

Details:

– Tensile load: 1,5 kg (for the variant No. –1001)
  2,5 kg (for the variants No. –1002 to –1004)
– Application of load: twist the cable 2,5 turns in one direction with specified load applied. Then twist it 5 turns in other direction and back 5 turns for 5 cycles.
– Point of application of the tensile load: 22-28 cm from the connector
– Specimen optically non-functioning
– Preconditioning procedure: none
– Recovery procedure: none
– Deviations: none
– Adaptor shall be in accordance with IEC 60874-10-3

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– The specimen has no mechanical damage

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: none
– Recovery procedure: none
– Deviations: none
– Adaptor shall be in accordance with IEC 60874-10-3

Initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– The specimen has no mechanical damage

Mechanical endurance 4.5.32 (61300-2-2)

Details:

– Cycles: 500
– Specimen optically functioning
– Preconditioning procedure: none
– Recovery procedure: clean plug and blow out adaptor with canned air after every 25 matings
– Deviations: none
– Adaptor shall be in accordance with IEC 60874-10-3
– Change in attenuation during test: less than 0,2 dB
– Return loss: 26 dB minimum

Ferrule compression force (61300-3-22)

Details:

– Position of the ferrule endface relative to mechanical reference plane of the connector when ferrule compression force shall be measured: dimension U (see figure 1) is 9,54 – 11,11 mm

Requirements:

– Allowable ferrule compression force: 7,0 – 15,0 N

(continued)

TABLE 4 (concluded)

DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS

Drop 4.5.14 (61300-2-12)

Details:

– Method: A
– Numbers of drops: 5
– Drop height: 1 000 mm
– Specimen optically non-functioning
– Preconditioning procedure: with dust cap
– Recovery procedure: clean endface before final measurement
– Deviation: none
– Adaptor shall be in accordance with IEC 60874-10-3

initial measurements and performance requirements:

– Attenuation: less than 0,75 dB

Final measurements and performance requirements:

– Attenuation: less than 0,75 dB
– The specimen has no mechanical damage

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

Details:

– Preconditioning procedure: none
– Deviation: as necessary
– Reference adaptor shall be in accordance with IEC 60874-10-3

Requirements:

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

Change of temperature (test Nb) 4.5.22 (61300-2-11)

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 non-functioning
– Preconditioning procedure: with dust cap
– Recovery procedure: after test, specimens shall be maintained at room temperature condition for 2 h
– Clean endface before final measurement
– Deviation: none
– Adaptor shall be in accordance with IEC 60874-10-3
– Monitoring method of attenuation shall be in accordance with IEC 61300-3-20
– Change in attenuation during test: 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: none
– Recovery procedure: clean endface before final measurement
– Deviation: none
– Adaptor shall be in accordance with IEC 60874-10-3
– Monitoring method of attenuation shall be in accordance with IEC 61300-3-20
– Change in attenuation during test: less than 0,2 dB

———————

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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

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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.

61300-3-15 (1995) Partie 3-15: Mesures – Excentricité de la face terminale d'un embout poli convexe.

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

61300-3-17 (1995) Partie 3-17: Examens et mesures – Angle de la face terminale des embouts polis angulairement.

61300-3-18 (1995) Examens et mesures – Précision de clavetage d'un connecteur à face terminale angulaire.

61300-3-19 (1997) Partie 3-19: Influence de la polarisation sur la puissance réfléchie d'un composant à fibres optiques monomodes.

61300-3-22 (1997) Partie 3-22: Force de compression des embouts.

61300-3-25 (1997) Partie 3-25: Concentricité des embouts et des embouts avec fibre.

61300-3-26 (1997) Partie 3-26: Mesure de l'erreur d'alignement angulaire des embouts avec fibre.

61300-3-27 (1997) Partie 3-27: Méthode de mesure pour la localisation du trou sur une fiche de connecteur multivoies.

61313:— Ensembles de câbles et composants passifs à fibres optiques.

61313-1 (1995) Partie 1: Spécification générique: Agrément de savoir-faire.

61314:— Systèmes d'éclatement pour fibres et câbles optiques.

61314-1 (1995) Partie 1: Spécification générique.

61314-1-1 (1996) Partie 1-1: Spécification particulière-cadre – Catégories d'environnement 1, 2, 3, 5 et 99

61315:— Etalonnage des radiomètres pour sources fibrées.

61754:— Interfaces de connecteurs pour fibres optiques.

61754-1 (1996) Partie 1: Généralités et guide.

61754-2 (1996) Partie 2: Famille de connecteurs de type BFOC/2,5.

61754-3 (1996) (Publiée en langue anglaise uniquement)

61754-4 (1997) Partie 4: Famille de connecteurs du type SC.

61754-5 (1996) (Publiée en langue anglaise uniquement)

61754-6 (1997) Partie 6: Famille de connecteurs de type MU.

61754-7 (1996) (Publiée en langue anglaise uniquement)

61754-8 (1996) Partie 8: Famille de connecteurs de type CF08.

61754-9 (1996) (Publiée en langue anglaise uniquement)

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

61300-3-2 (1995) Part 3-2: Examinations and measurements – Polarization dependence of a single-mode fibre optic device.

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61300-3-6 (1997) Part 3-6: Return loss.

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