INTERNATIONAL STANDARD

IEC 60874-14-1

QC 910004XX0001

First edition
1997-06

Connectors for optical fibres and cables –

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

Reference number
IEC 60874-14-1: 1997(E)

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Connectors for optical fibres and cables –

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

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CONNECTORS FOR OPTICAL FIBRES AND CABLES –

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

FOREWORD

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International Standard IEC 60874-14-1 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/871/FDIS	86B/1000/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.

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CONNECTORS FOR OPTICAL FIBRES AND CABLES

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

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

DETAIL SPECIFICATION IEC QC 910004XX0001.

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: 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
- Adaptor: See IEC 60874-14-1

Arrangement: Patchcord arrangement

Style: Fibre retention: as required
Cable retention: as required
Optical coupling: butting
Alignment: resilient sleeve alignment

Variants: see page 7

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
Core/cladding concentricity error	In accordance with IEC 60793-2
Buffer diameter	250 ± 15, 500 ± 30, 900 ± 50 µm
Jacket outer diameter	As required per variant

Additional information

– Attenuation in random connection:
  - less than 0,75 dB (97 % probability)
  - less than 0,35 dB (average)

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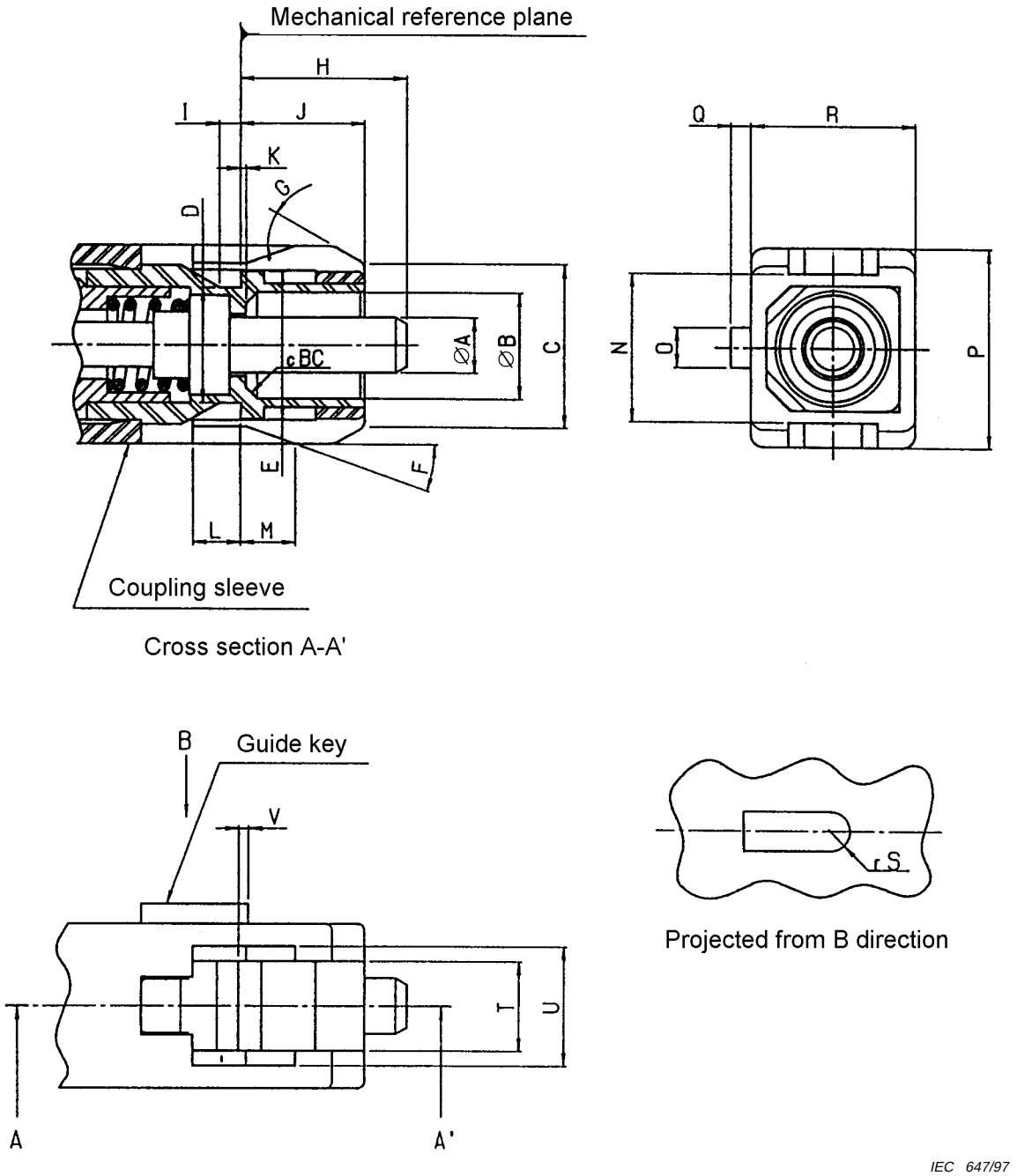

Figure 1 – Plug mating face dimensions

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Reference	Dimensions		Notes
	Minimum	Maximum	
A	2,498 mm	2,500 mm	
B	4,8 mm	4,9 mm	
C	6,8 mm	7,4 mm	
D	4,9 mm	5,3 mm	
E	6,7 mm	6,8 mm	
F	19°	23°	
G	25°	35°	
H	7,15 mm	7,50 mm	1, 2
I	0,8 mm	1,2 mm	
J	5,3 mm	5,5 mm	
K	- 0,1 mm	0,05 mm	3
L	2,11 mm	2,5 mm	
M	2,0 mm	2,8 mm	
N	6,6 mm	6,8 mm	
O	1,6 mm	1,8 mm	
P	8,89 mm	8,99 mm	
Q	0,8 mm	1,0 mm	
R	7,29 mm	7,39 mm	
rS	0,8 mm	0,9 mm	radius
T	4,05 mm	4,15 mm	
U	5,4 mm	5,6 mm	
V	0 mm	0,5 mm	
cBC	0 mm	0,5 mm	chamfer

NOTES

1 Ferrule compression force shall be from 7,8 N to 11,8 N, when the ferrule is compressed to a point where H is 7 ± 0,1 mm.

2 This value shows the dimension after the ferrule is polished and in the unmated condition.

3 The negative dimension refers to the position of the inside bottom plane left-direction relative to the mechanical reference plane.

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

5 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.

6 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 mating face dimensions *(continued)*

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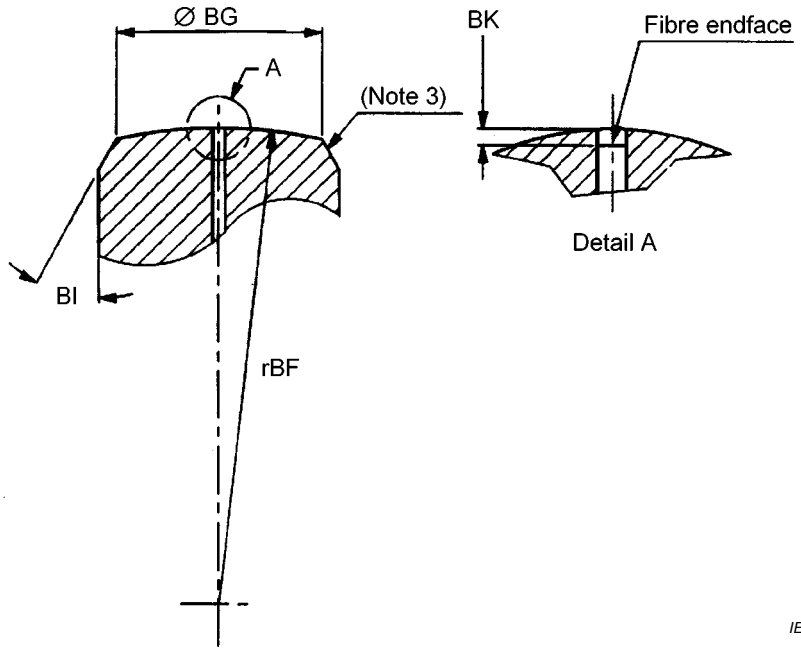


Reference	Dimensions		Notes
	Minimum	Maximum	
rBF	10 mm	25 mm	1, radius
BK	–0,0001 mm	see graph	2
BG	1,76 mm	2,26 mm	diameter, 4
BG	1,90 mm	2,26 mm	diameter, 5
BI	25°	35°	

NOTES

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

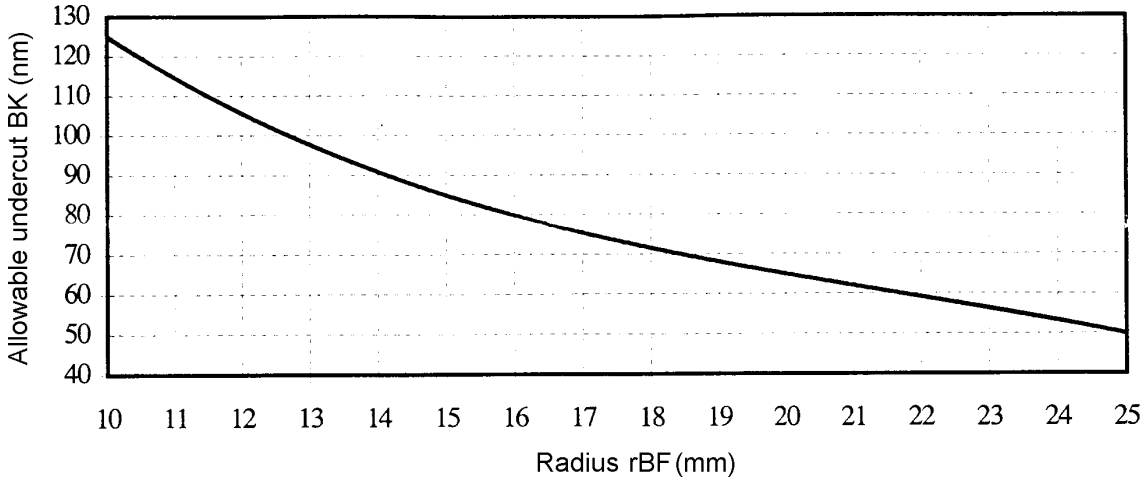
2 The negative dimension refers to the fibre protrusion.

3 Break edge.

4 This value is applicable to the variant numbers 1001, 1002, 1003, 1005 and 1007.

5 This value is applicable to the variant numbers 1002, 1004, 1006 and 1008.

Figure 2a – Ferrule endface geometry after termination



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

IEC 649/97

Figure 2b – Allowable undercut BK versus radius rBF

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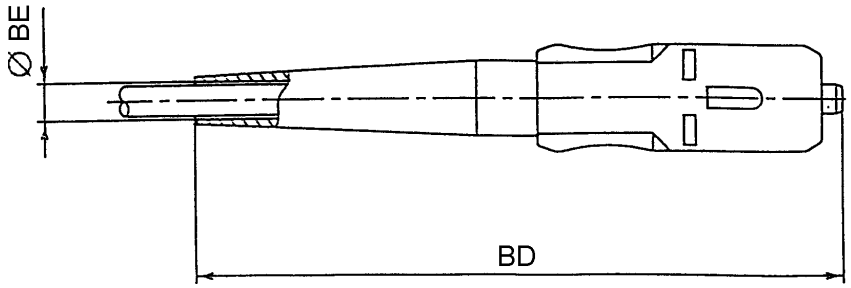

IEC 650/97

Reference	Dimensions mm		Notes
	Minimum	Maximum	
BD		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 numbers –1001 and 1002.

2 This value is applicable to the variant numbers –1003 and 1004.

3 This value is applicable to the variant numbers –1005 and 1006.

4 This value is applicable to the variant numbers –1007 and 1008.

Figure 3 – Plug dimension

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VARIANT IDENTIFICATION NUMBERS Number: QC 910X01/0002-ZZZZ				
ZZZZ		Variant feature		
		Applicable cable jacket diameter	Ferrule material	Dimension BG
1001	Plug	2,0 mm	Zirconia	1,76 – 2,26
1002	Plug	2,0 mm	Zirconia	1,90 – 2,26
1003	Plug	2,4 mm	Zirconia	1,76 – 2,26
1004	Plug	2,4 mm	Zirconia	1,90 – 2,26
1005	Plug	2,7 mm	Zirconia	1,76 – 2,26
1006	Plug	2,7 mm	Zirconia	1.90 – 2,26
1007	Plug	3,0 mm	Zirconia	1,76 – 2,26
1008	Plug	3,0 mm	Zirconia	1,90 – 2,26

SUPPLEMENTARY INFORMATION
Preferred colour:
Colour of the coupling sleeve and boot shall be beige. According to RAL 1013.
Component marking:
The name and/or manufacturer's identification mark may be permanently identified. Figure 4 shows an example of the location of the component marking.

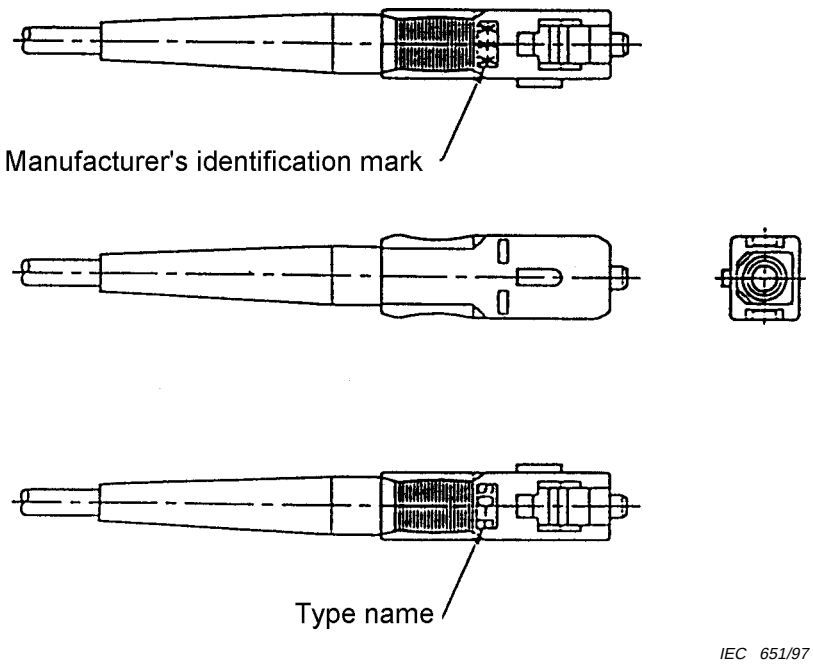

Figure 4 – Example of component marking

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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)	
– Ferrule compression force	(3-22)	
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		
– Drop	4.5.14 (2-12)	
– Engagement and separation force	4.4.5 (3-11)	6
– 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 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.

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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 Radius Undercut/Protrusion Eccentricity of spherical polished endface	4.4.1 (3-1) 4.4.2 (3-1) (3-23) (3-25)	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.

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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
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)		
– Ferrule compression force	(3-22)		
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			
– Drop	4.5.14 (2-12)		
– Engagement and separation force	4.4.5 (3-11)	6	48
– 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)		
– Cable pulling	4.5.4 (2-4)	4	48
– 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 conformance inspection requirements of the detail specification there shall be no failures 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.

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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)

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 ± 0,001 mm
• Concentricity of the fibre core with the outer diameter of the ferrule is less than 1 µm
• Eccentricity of a spherical polished ferrule endface is less than 30 µm

– Adaptor (simplex) shall be in accordance with IEC 60874-14-4
– Number of measurements to be averaged: 5
– Launch mode conditions: equilibrium
– Source: LED
– Peak wavelength: 1,3 µm
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: none

Requirements:

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

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 simplex shall be in accordance with IEC 60874-14-4
– 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 testing, specimens shall be maintained at room temperature conditions 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 during test: less than 0,2 dB

(continued)

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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 (simplex) shall be in accordance with IEC 60874-14-4
– 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 testing, specimens shall be maintained at room temperature conditions 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 during test: 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
– Adaptor (simplex) shall be in accordance with IEC 60874-14-4
– 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 testing, specimens shall be maintained at room temperature conditions 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 during test: less than 0,2 dB

(continued)

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TABLE 4 (continued)

DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS

Cable pulling 4.5.4 (61300-2-4)

Details:

– Magnitude: 90 N
– Rate of application of the tensile load: 50N/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 ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: none
– Deviations: none
– Adaptor (simplex) shall be in accordance with IEC 60874-14-4

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

Cable torsion 4.5.5 (61300-2-5)

Details:

– Tensile load: 1,5 kg (for the variants No. –1001 and 1002)
  2,5 kg (for the variants No. –1003 to 1008)
– 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: clean ferrule endface and inside of alignment sleeve using lint free material
– Recovery procedure: none
– Deviations: none
– Adaptor (simplex) shall be in accordance with IEC 60874-14-4

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.

(continued)

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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
– Adaptor (simplex) shall be in accordance with IEC 60874-14-4

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
– Adaptor (simplex) shall be in accordance with IEC 60874-14-4

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
– The specimen has no mechanical damage

Ferrule compression force (61300-3-22)

Details:

– Position of the ferrule endface relative to mechanical reference plane of the connector while ferrule compression force shall be measured:
  Dimension H (See figure 1) is 7 ± 0,1 mm.

Requirements:

– Allowable ferrule compression force: 7,8-11,8 N

(continued)

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TABLE 4 (continued)

DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS

Drop 4.5.14 (61300-2-12)

Details:

– Method: A
– Number of drops: 5
– Drop height: 1 000 mm
– Specimen optically non-functioning
– Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material. The plug shall be with dust cap
– Recovery procedure: clean ferrule endface and inside of alignment sleeve using lint free material before final measurement
– Deviation: none
– Adaptor (simplex) shall be in accordance with IEC 60874-14-4

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

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

Details:

– Preconditioning procedure: none
– Deviation: as necessary
– Adaptor (simplex) shall be in accordance with IEC 60874-14-4

Requirements:

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

(continued)

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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
– Adaptor (simplex) shall be in accordance with IEC 60874-14-4
– Monitoring method of attenuation 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 tests:

– 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: none
– Recovery procedure: clean endface before final measurement
– Deviation: none
– Adaptor (simplex) shall be in accordance with IEC 60874-14-4

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

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4.

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

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- ☐ paper
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- ☐ floppy disk
- ☐ on line

10A.

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- ☐ raster image
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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

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company: .....

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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.

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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.

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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.

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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).

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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.

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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.

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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.

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