

INTERNATIONAL STANDARD

IEC
60874-19-1

QC 910005XX0001

First edition
1999-09

Connectors for optical fibres and cables –

Part 19-1:

**Fibre optic patch cord connector type SC-PC
(floating duplex) standard terminated
on multimode fibre type A1a, A1b –
Detail specification**

Connecteurs pour fibres optiques et câbles –

Partie 19-1:

*Connecteur pour câble de liaison de type SC-PC
(duplex flottant) normalisé, terminé sur une fibre
multimode de types A1a, A1b –
Spécification particulière*



Reference number
IEC 60874-19-1:1999(E)

Numbering

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Consolidated publications

Consolidated versions of some IEC publications including amendments are available. For example, edition numbers 1.0, 1.1 and 1.2 refer, respectively, to the base publication, the base publication incorporating amendment 1 and the base publication incorporating amendments 1 and 2.

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- **IEC web site***
- **Catalogue of IEC publications**
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(On-line catalogue)*
- **IEC Bulletin**
Available both at the IEC web site* and as a printed periodical

Terminology, graphical and letter symbols

For general terminology, readers are referred to IEC 60050: *International Electrotechnical Vocabulary* (IEV).

For graphical symbols, and letter symbols and signs approved by the IEC for general use, readers are referred to publications IEC 60027: *Letter symbols to be used in electrical technology*, IEC 60417: *Graphical symbols for use on equipment*, *Index, survey and compilation of the single sheets* and IEC 60617: *Graphical symbols for diagrams*.

* See web site address on title page.

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Commission Electrotechnique Internationale
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PRICE CODE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CONNECTORS FOR OPTICAL FIBRES AND CABLES –

Part 19-1: Fibre optic patch cord connector type SC-PC (floating duplex) standard terminated on multimode fibre type A1a, A1b – Detail specification

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
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International Standard IEC 60874-19-1 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/1220/FDIS	86B/1256/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.

This publication has not been drafted in complete accordance with the ISO/IEC Directives, Part 3.

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.

The committee has decided that the contents of this publication will remain unchanged until 2012. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this standard may be issued at a later date.

Withdrawn
IECNORM.COM : Click to view the full PDF of IEC 60874-19-1:1999

CONNECTORS FOR OPTICAL FIBRES AND CABLES

Part 14-9: Fibre optic patch cord connector type SC-PC (floating duplex) standard terminated on multimode fibre type B1 – Detail specification

NATIONAL STANDARDS

ORGANIZATION:

.....

Date

DETAIL SPECIFICATION IEC QC 910005XX0001

FIBRE OPTIC COMPONENT OF ASSESSED QUALITY IN ACCORDANCE WITH

- GENERIC SPECIFICATION: QC 910000 (IEC 60874-1)
- BLANK DETAIL SPECIFICATION: QC 910004 (IEC 60874-1-1)

CONNECTOR SET FOR OPTICAL FIBRES AND CABLES

CLASSIFICATION:

Type: Name: SC (floating duplex)

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 60874-19-3

Arrangement: patchcord arrangement

Style: Fibre retention: as required

Cable retention: as required

Optical coupling: butting

Alignment: resilient sleeve alignment

Variants: see page 9

Climatic category: 10/60/4

Environmental category: 4

Assessment level: A

QUALIFICATION PROCEDURE: Fixed sample procedure

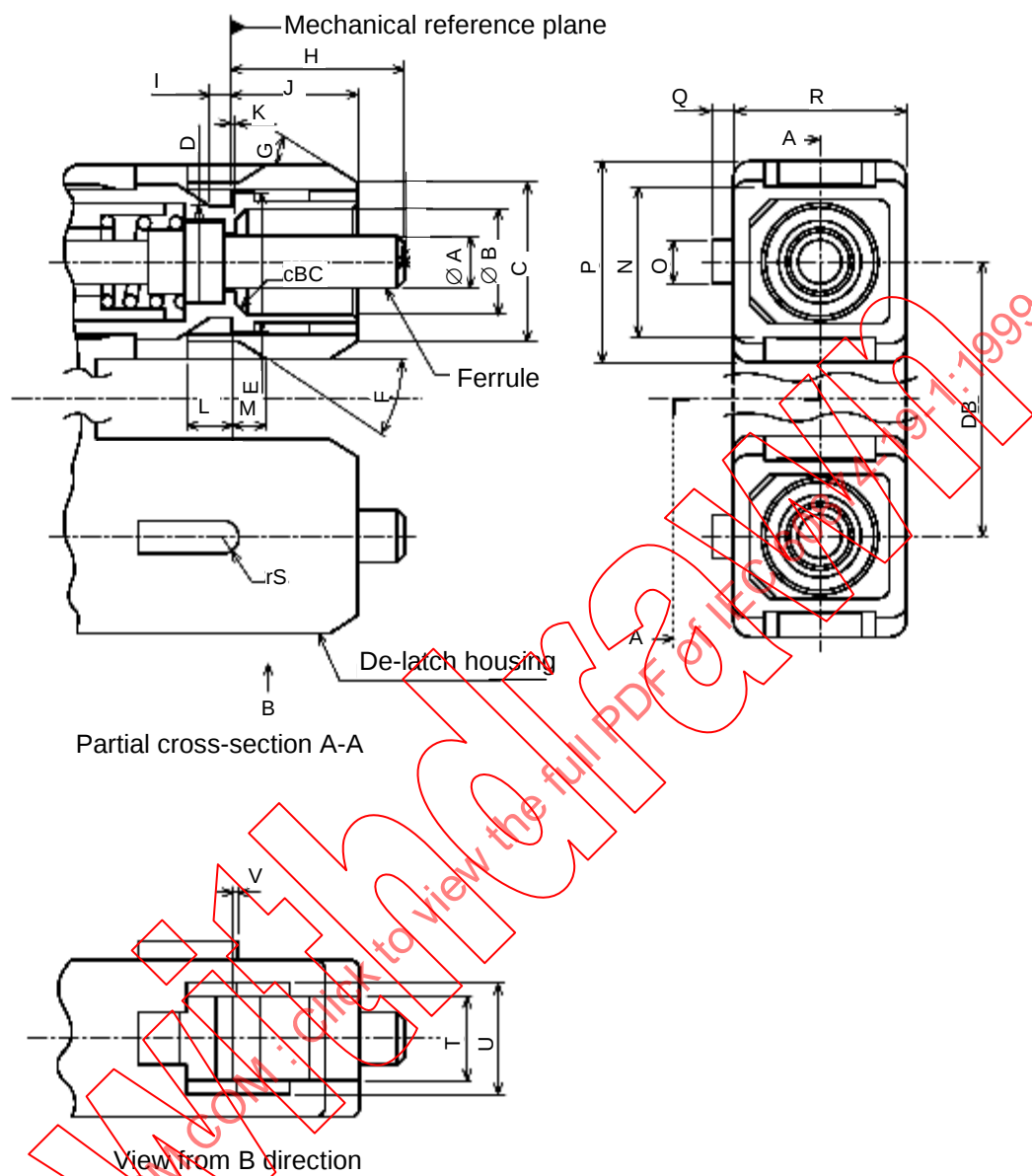
SAFETY WARNING: Take care when handling small diameter optical fibre to prevent puncturing the skin, especially in the eye area. Direct viewing of the end of an optical fibre when it is propagating energy is not recommended unless prior assurance is obtained as to the safe energy output level.

Applicable fibre cable information:

Core diameter	In accordance with IEC 60793-2
Cladding diameter	In accordance with IEC 60793-2
Buffer diameter	(250 ± 15) µm, (500 ± 30) µm, (900 ± 50) µm
Tension member	Aramid strength member
Jacket outer diameter	As required per variant

Additional information

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



IEC 1020/99

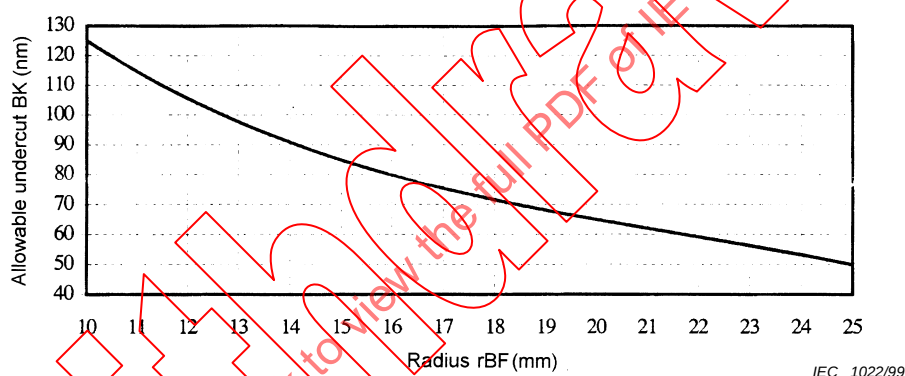
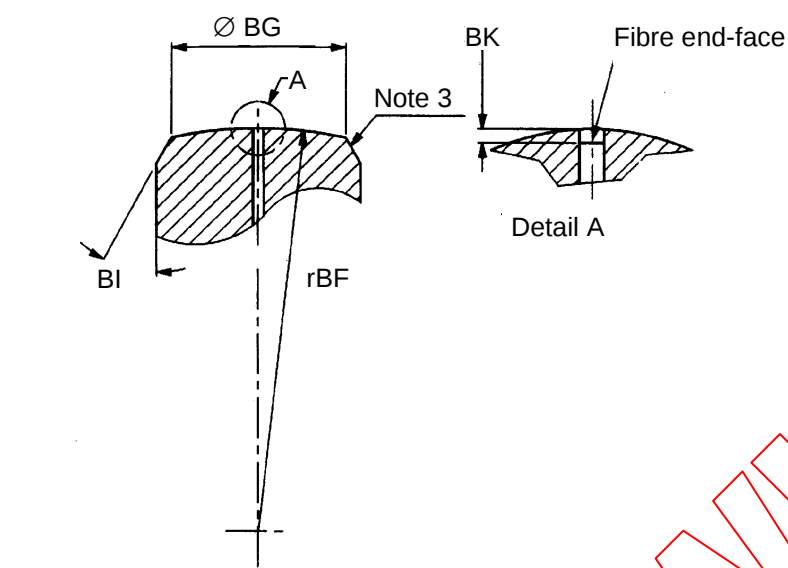
Figure 1 – Plug mating face dimensions

Reference	Dimensions		Notes
	Minimum	Maximum	
A	2,498 mm	2,500 mm	Diameter
B	4,80 mm	4,90 mm	
C	6,80 mm	7,40 mm	
D	4,90 mm	5,30 mm	
E	6,70 mm	6,80 mm	
F	19°	23°	
G	25°	35°	
H	7,15 mm	7,50 mm	
I	0,80 mm	1,20 mm	
J	5,30 mm	5,50 mm	
K	−0,10 mm	0,05 mm	
L	2,11 mm	2,50 mm	
M	2,00 mm	2,80 mm	
N	6,60 mm	6,80 mm	
O	1,60 mm	1,80 mm	
P	8,89 mm	8,99 mm	
Q	0,80 mm	1,00 mm	
R	7,29 mm	7,39 mm	Radius
rS	0,80 mm	0,90 mm	
T	4,05 mm	4,15 mm	
U	5,40 mm	5,60 mm	
V	0 mm	0,50 mm	
cBC	0 mm	0,50 mm	Chamfer
DB	12,25 mm	13,15 mm	

NOTES

- 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 mm ± 0,1 mm.
- This value shows the dimension after the ferrule is polished and in the unmated condition.
- The negative dimension refers that the position of the inside bottom plane is left-direction relative to the plane defined as X.
- Where a tolerance of form is not specified, the limits of the dimensions for a feature control the form as well as the size.
- 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.
- 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.
- Plugs shall be capable of floating between the DB maximum and DB minimum.

Figure 1 – Plug mating face dimensions (concluded)

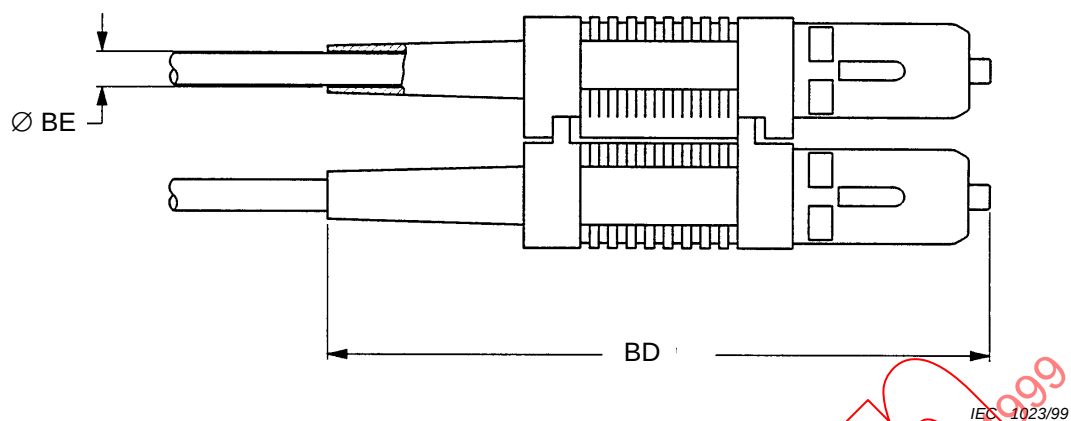


Reference	Dimensions mm		Notes
	Minimum	Maximum	
rBF	10,00 mm	25,00 mm	1, radius
BG	1,76 mm	2,26 mm	Diameter, 2
BG	1,90 mm	2,26 mm	Diameter, 2
BI	25°	35°	
BK	-0,0001	See graph	4, see curve

NOTES

- 1 Eccentricity of a spherical polished ferrule endface is less than 50 µm.
- 2 This value is applicable for variants as per variant table on page 10.
- 3 Break edge.
- 4 The negative dimension refers to the fibre protrusion. Dimension BK shall be measured according to IEC 61300-3-23.

Figure 2 – Ferrule endface geometry after termination



Reference	Dimensions mm		Notes
	Minimum	Maximum	
BD		60	
BE	2,20		1
BE	2,60		2
BE	2,90		3
BE	3,20		4

NOTES

- 1 This value is applicable to the variant number 1001 and 1002.
- 2 This value is applicable to the variant number 1003 and 1004.
- 3 This value is applicable to the variant number 1005 and 1006.
- 4 This value is applicable to the variant number 1007 and 1008.

Figure 3 – Plug dimension

VARIANT IDENTIFICATION NUMBERS				
NUMBER: XXXXXXXXXXXXX				
ZZZZ	Component name	Variant feature		
		Applicable cable jacket diameter	Ferrule material	Dimension BG
1001	Plug	2,00 mm	Zirconia	1,76 – 2,26
1002	Plug	2,00 mm	Zirconia	1,90 – 2,26
1003	Plug	2,40 mm	Zirconia	1,76 – 2,26
1004	Plug	2,40 mm	Zirconia	1,90 – 2,26
1005	Plug	2,70 mm	Zirconia	1,76 – 2,26
1006	Plug	2,70 mm	Zirconia	1,90 – 2,26
1007	Plug	3,00 mm	Zirconia	1,76 – 2,26
1008	Plug	3,00 mm	Zirconia	1,90 – 2,26

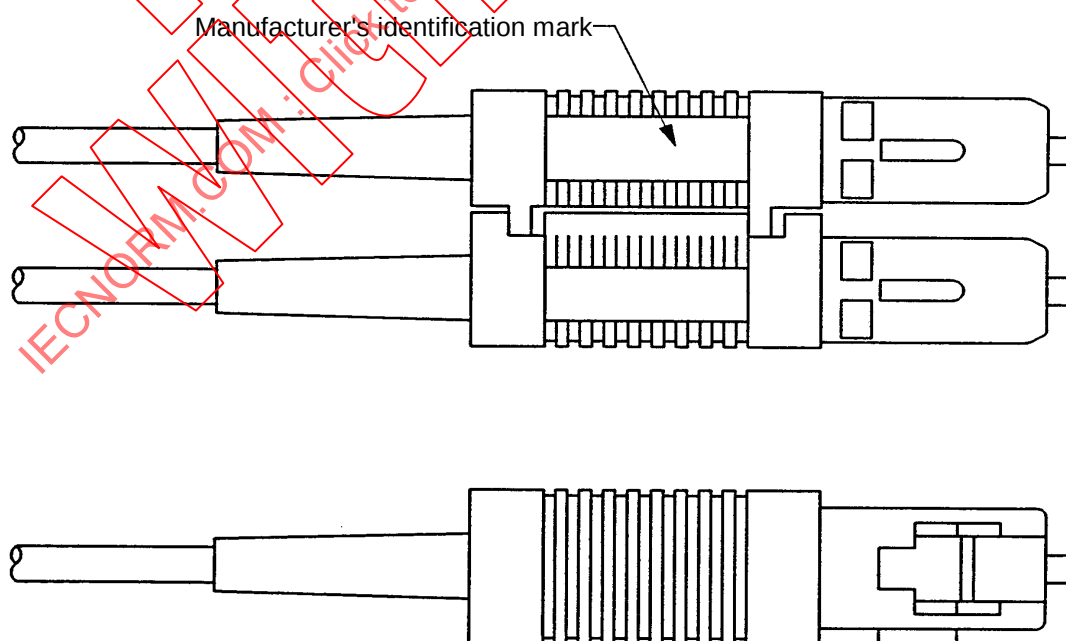
SUPPLEMENTARY INFORMATION

Colour:

Colour of the de-latch housing 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.



IEC 1024/99

Figure 4 – Example of component marking

TABLE 1
FIXED SAMPLE TEST SCHEDULE FOR QUALIFICATION APPROVAL

Test sequence	Reference IEC 60874-1 (IEC QC 910000) (IEC 61300)	<i>n</i>
Group 0 – Visual examination – Dimensions – Ferrule compression force	4.4.1 (3-1) 4.4.2 (3-1) (3-22)	20
Group 1 – Attenuation	4.4.7 (3-4)	20
Group 2 – Cold – Dry heat – Damp heat (steady state)	4.5.17 (2-17) 4.5.18 (2-18) 4.5.19 (2-19)	6
Group 3 – Drop – Engagement and separation force – Mechanical endurance	4.5.14 (2-12) 4.4.5 (3-11) 4.5.32 (2-2)	6
Group 4 – Vibration – Change of temperature (test Nb)	4.5.1 (2-1) 4.5.22 (2-22)	4
Group 5 – Strength of coupling mechanism – Cable pulling – Cable torsion	4.5.6 (2-6) 4.5.4 (2-4) 4.5.5 (2-5)	4
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 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 made available for inspection. Failures and the corrective action taken to eliminate failures shall be documented and evidence 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 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 QC 910000) (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 endfaces	(3-25)		
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 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 QC 910000) (IEC 61300)	Assessment level A	
		<i>n</i>	<i>p</i>
Group C0 – Visual examination – Dimensions – Ferrule compression force	4.4.1 (3-1) 4.4.2 (3-1) (3-22)	18	24
Group C1 – Attenuation	4.4.7 (3-4)	18	24
Group C2 – Cold – Dry heat – Damp heat (steady state)	4.5.17 (2-17) 4.5.18 (2-18) 4.5.19 (2-19)	6	24
Group D0 – Visual examination – Dimensions – Ferrule compression force	4.4.1 (3-1) 4.4.2 (3-1) (3-22)	20	48
Group D1 – Attenuation	4.4.7 (3-4)	20	48
Group D2 – Cold – Dry heat – Damp heat (steady state)	4.5.17 (2-17) 4.5.18 (2-18) 4.5.19 (2-19)	6	48
Group D3 – Drop – Engagement and separation force – Mechanical endurance	4.5.14 (2-12) 4.4.5 (3-11) 4.5.2 (2-2)	6	48
Group D4 – Vibration – Change of temperature (test Nb)	4.5.1 (2-1) 4.5.22 (2-22)	4	48
Group D5 – Strength of coupling mechanism – Cable pulling – Cable torsion	4.5.6 (2-6) 4.5.4 (2-4) 4.5.5 (2-5)	4	48
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 made available for inspection. Failures and the corrective action taken to eliminate failures shall be documented and evidence 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 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
- De-latch housing 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 $2,499 \text{ mm} \pm 0,0005 \text{ mm}$
- Concentricity of the fibre core with the outer diameter of the ferrule is less than $1 \mu\text{m}$
- Eccentricity of a spherical polished ferrule endface is less than $30 \mu\text{m}$
- Reference duplex adaptor shall be in accordance with IEC 60874-19-3
- Number of measurements to be averaged: 5
- Launch mode conditions: equilibrium
- Source: LED
- Peak wavelength: $1,3 \mu\text{m}$
- Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint-free cloth
- Recovery procedure: none

Requirements:

- Allowable attenuation: less than $0,3 \text{ dB}$ against reference plug

Cold 4.5.17 (61300-2-17)

Details:

- Temperature: $-10 \text{ }^{\circ}\text{C}$
- Duration: 96 h
- Specimen optically functioning
- Conditioning procedure: specimen lowered to test temperature and returned to room temperature at a rate not to exceed $1 \text{ }^{\circ}\text{C}/\text{min}$
- Deviations: none
- Duplex adaptor shall be in accordance with IEC 60874-19-3
- 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 cloth
- Recovery procedure: after testing, specimens shall be maintained in room temperature conditions for 2 h. Clean ferrule endface and inside of alignment sleeve using lint-free cloth

Requirements:

- Change in attenuation during test: less than $0,2 \text{ dB}$

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°C/min – Deviations: none – Duplex adaptor shall be in accordance with IEC 60874-19-3 – 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 cloth – Recovery procedure: after testing, specimens shall be maintained in room temperature conditions for 2 h – Clean ferrule endface and inside of alignment sleeve using lint-free cloth Requirements: – 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: 4 days – 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°C/min – Deviations: none – Duplex adaptor shall be in accordance with IEC 60874-19-3 – 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 cloth – Recovery procedure: after testing, specimens shall be maintained in room temperature conditions for 2 h – Clean ferrule endface and inside of alignment sleeve using lint-free cloth before final measurement Requirements: – Change in attenuation during test: less than 0,2 dB

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: 50 N/min < load rate < 250 N/min
- Point of application of the tensile load: 22 cm – 28 cm from connector
- Specimen optically non-functioning
- Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint-free cloth
- Recovery procedure: none
- Deviations: none
- Simplex adaptor shall be in accordance with IEC 60874-14-4
- Each connector shall be tested separately

Initial measurements and performance requirements:

- Attenuation: less than 0,75 dB

Final measurements and performance requirements:

- Attenuation: less than 0,50 dB
- Change in attenuation: less than 0,20 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 the other direction and back 5 turns for 5 cycles
- Point of application of the tensile load: 22 cm – 28 cm from the connector
- Specimen optically non-functioning
- Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint-free cloth
- Recovery procedure: none
- Deviations: none
- Simplex adaptor shall be in accordance with IEC 60874-14-4
- Each connector shall be tested separately

Initial measurements and performance requirements:

- Attenuation: less than 0,75 dB

Final measurements and performance requirements:

- Attenuation: less than 0,50 dB
- Change in attenuation less than 0,2 dB
- The specimen has no mechanical damage

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 cm – 28 cm from connector
- Specimen optically non-functioning
- Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint-free cloth
- Recovery procedure: clean ferrule endface and inside of alignment sleeve using lint-free cloth before final measurement
- Deviations: none
- Simplex adaptor shall be in accordance with IEC 60874-14-3

Initial measurement and performance requirements:

- Attenuation: less than 0,75 dB

Final measurement and performance requirements:

- Attenuation: less than 0,50 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 cloth
- Recovery procedure: clean as necessary, but no more than 25 times during the course of the test
- Deviations: none
- Simplex adaptor shall be in accordance with IEC 60874-14-3
- Monitoring method of attenuation shall be in accordance with IEC 61300-3-30

Requirements:

- Change in attenuation: less than 0,2 dB

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 mm ± 0,1 mm

Requirements:

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

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 cloth
- Recovery procedure: clean ferrule endface and inside of alignment sleeve using lint-free cloth before final measurement
- Deviation: none
- Reference duplex adaptor shall be in accordance with IEC 60874-19-3

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 simplex adaptor shall be in accordance with IEC 60874-14-3
- Each connector shall be tested separately

Requirements:

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