

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**

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

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Commission Electrotechnique Internationale
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Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION



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.

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 <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none"> - Attenuation in random connection: <ul style="list-style-type: none"> • less than 0,75 dB (97 % probability) • less than 0,35 dB (average) 	

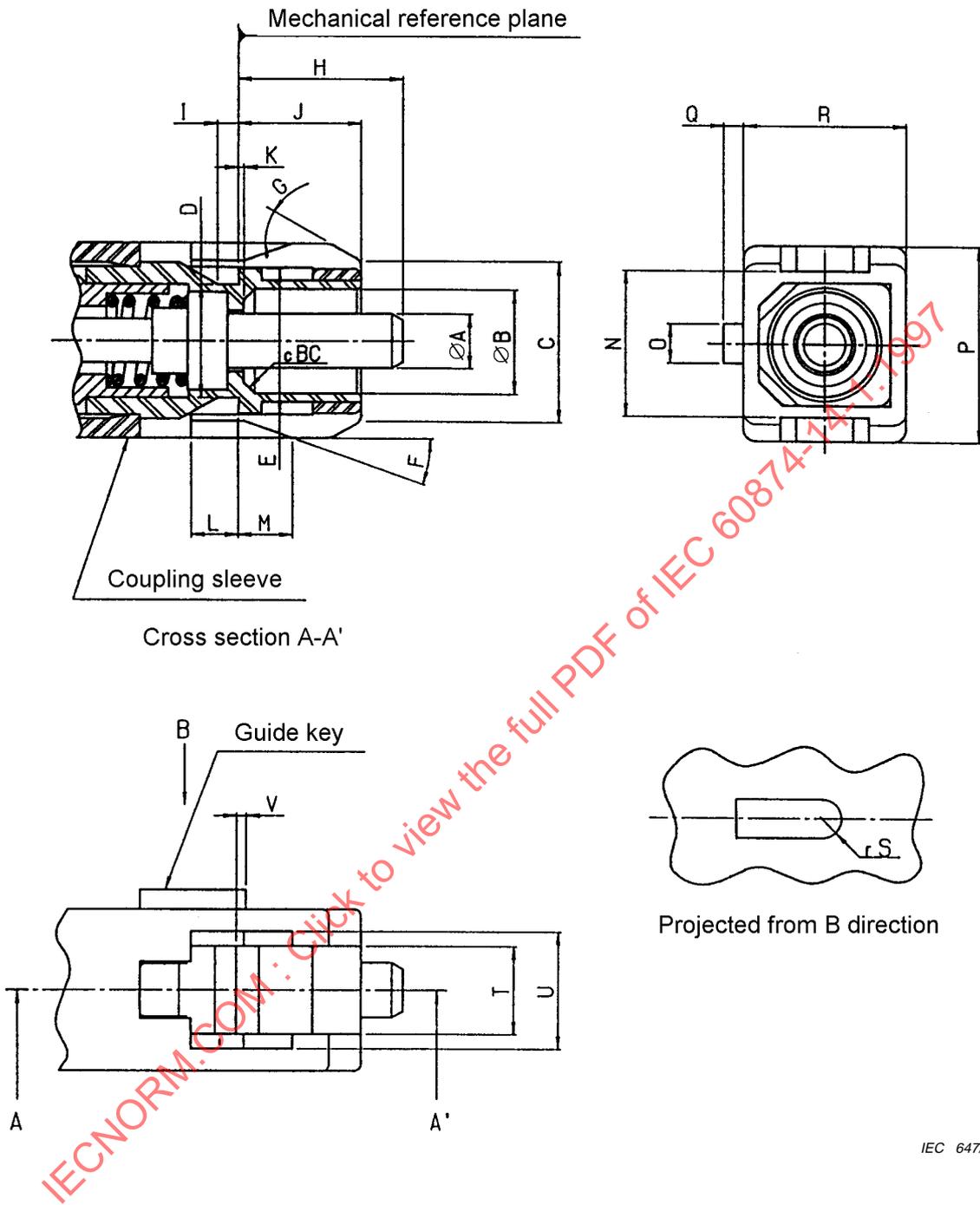


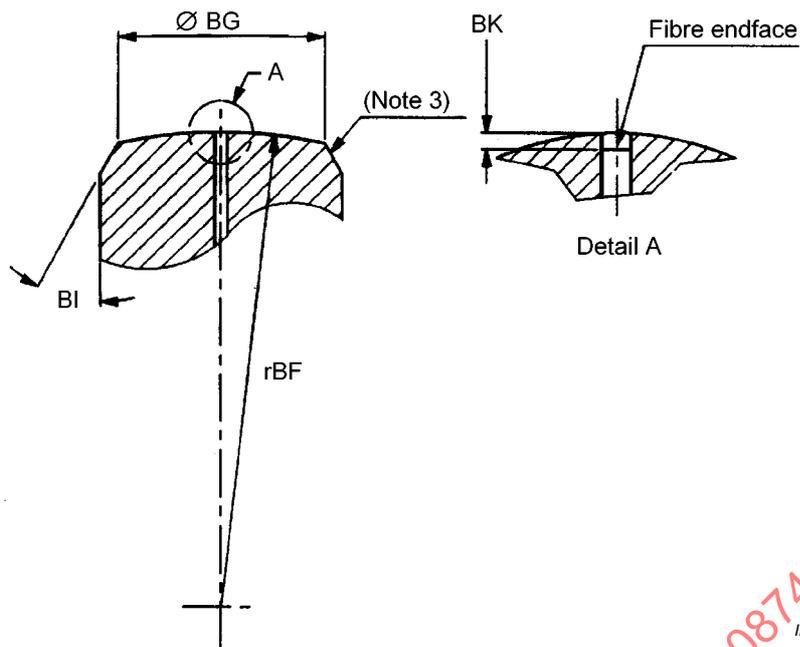
Figure 1 – Plug mating face dimensions

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

- Ferrule compression force shall be from 7,8 N to 11,8 N, when the ferrule is compressed to a point where H is $7 \pm 0,1$ mm.
- This value shows the dimension after the ferrule is polished and in the unmated condition.
- The negative dimension refers to the position of the inside bottom plane left-direction relative to the mechanical reference plane.
- 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.

Figure 1 – Plug mating face dimensions (continued)

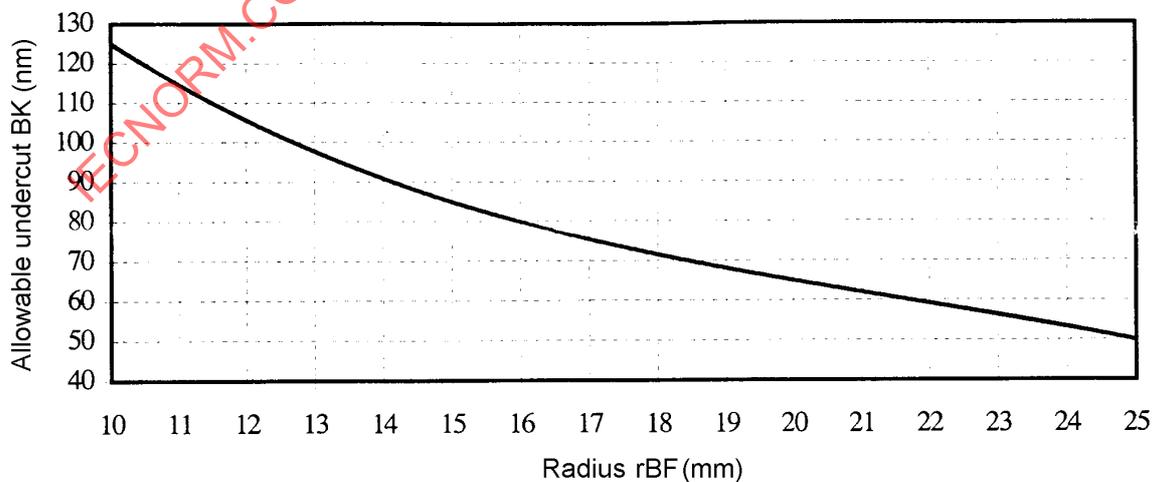


Reference	Dimensions		Notes
	Minimum	Maximum	
rBF	10 mm	25 mm	1, radius
BK	-0,0001 mm	see graph	2
BG	1,76 mm	2,26 mm	diameter, 4
BG	1,90 mm	2,26 mm	diameter, 5
BI	25°	35°	

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.

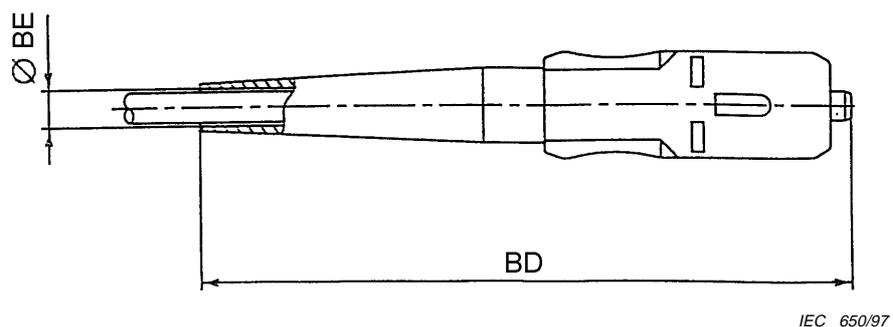
Figure 2a – Ferrule endface geometry after termination



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

IEC 649/97

Figure 2b – Allowable undercut BK versus radius rBF



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

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.

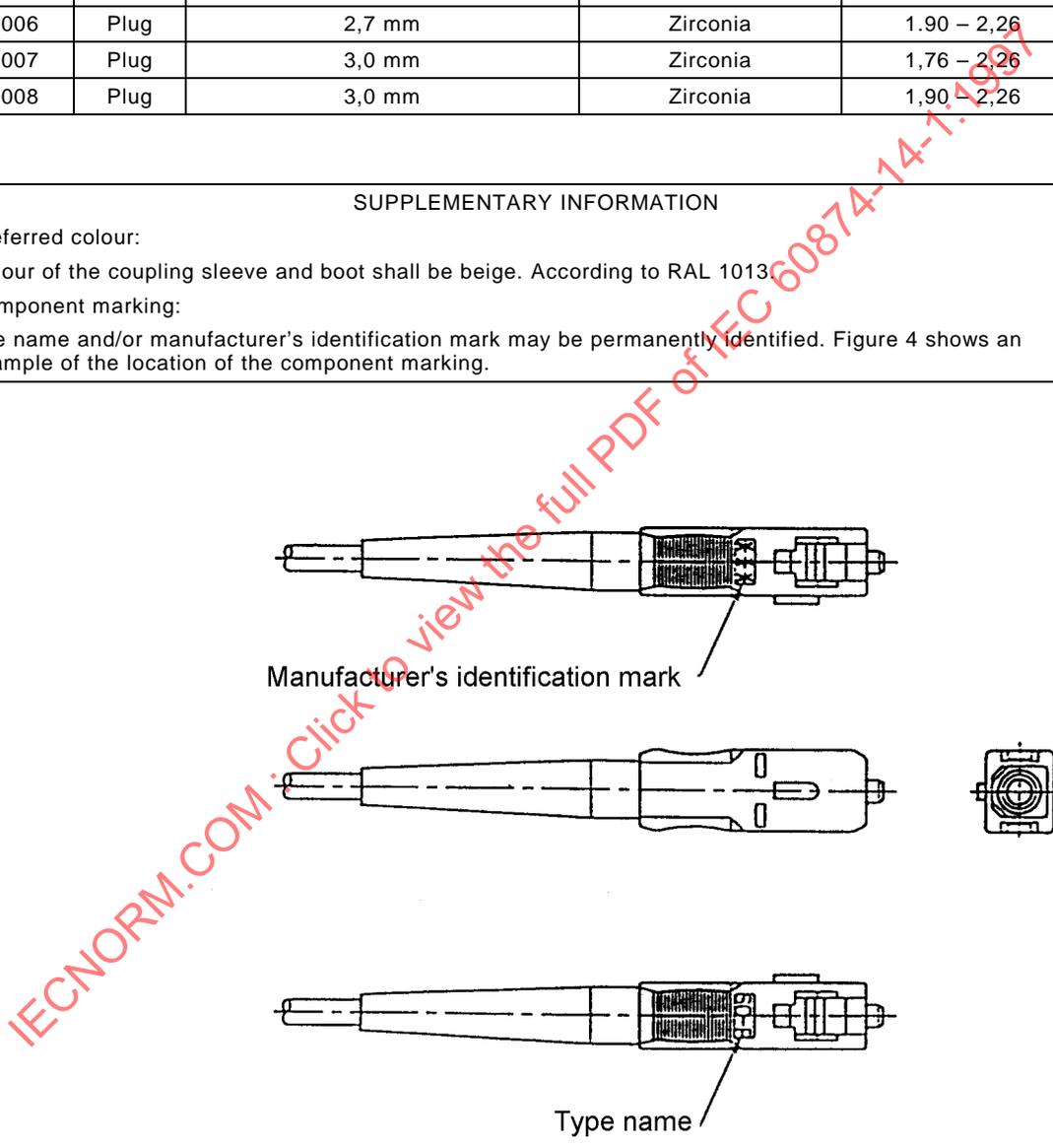


Figure 4 – Example of component marking

TABLE 1 FIXED SAMPLE TEST SCHEDULE FOR QUALIFICATION APPROVAL		
Test sequence	Reference IEC 60874-1 (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
<p>NOTES</p> <p>1 <i>n</i> = sample size (number of plugs).</p> <p>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.</p> <p>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.</p> <p>3 Unless otherwise indicated, the test details, measurements and performance requirements are given in table 4.</p> <p>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.</p>		

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	
		<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 <i>n</i> = sample size (number of plugs); <i>p</i> = 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.			

TABLE 4
DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS
<p><i>Visual examination</i> 4.4.1 (61300-3-1)</p> <p>Requirements:</p> <ul style="list-style-type: none"> - Marking shall be clear. - Coupling sleeve shall be movable smoothly.
<p><i>Dimensions</i> 4.4.2 (61300-3-1)</p> <p>Requirements:</p> <ul style="list-style-type: none"> - All size dimensions shall be in accordance with this specification
<p><i>Attenuation</i> 4.4.7 (61300-3-4)</p> <p>Details:</p> <ul style="list-style-type: none"> - Method No. 7 - Definitions of reference plug are as follows: <ul style="list-style-type: none"> • Ferrule outer diameter is $2,499 \pm 0,001$ 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 $30 \mu\text{m}$ - 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: $1,3 \mu\text{m}$ - Preconditioning procedure: clean ferrule endface and inside of alignment sleeve using lint free material - Recovery procedure: none <p>Requirements:</p> <ul style="list-style-type: none"> - Allowable attenuation: less than 0,5 dB against reference plug using reference adaptor
<p><i>Cold</i> 4.5.17 (61300-2-17)</p> <p>Details:</p> <ul style="list-style-type: none"> - 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 $1^\circ/\text{min}$ - 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. <p>Initial measurements and performance requirements:</p> <ul style="list-style-type: none"> - Attenuation: less than 0,75 dB <p>Measurements and performance requirements during test:</p> <ul style="list-style-type: none"> - Attenuation: less than 0,75 dB - Change in attenuation during test: less than 0,2 dB

(continued)

TABLE 4 (continued) DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS
<p><i>Dry heat</i> 4.5.18 (61300-2-18)</p> <p>Details:</p> <ul style="list-style-type: none"> – 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 <p>Initial measurements and performance requirements:</p> <ul style="list-style-type: none"> – Attenuation: less than 0,75 dB <p>Measurements and performance requirements during test:</p> <ul style="list-style-type: none"> – Attenuation: less than 0,75 dB – Change in attenuation during test: less than 0,2 dB
<p><i>Damp heat (steady state)</i> 4.5.19 (61300-2-19)</p> <p>Details:</p> <ul style="list-style-type: none"> – 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 <p>Initial measurements and performance requirements:</p> <ul style="list-style-type: none"> – Attenuation: less than 0,75 dB <p>Measurements and performance requirements during test:</p> <ul style="list-style-type: none"> – Attenuation: less than 0,75 dB – Change in attenuation during test: less than 0,2 dB

(continued)

TABLE 4 (continued) DETAILS, MEASUREMENTS AND PERFORMANCE REQUIREMENTS
<p><i>Cable pulling</i> 4.5.4 (61300-2-4)</p> <p>Details:</p> <ul style="list-style-type: none"> - 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 <p>Initial measurements and performance requirements:</p> <ul style="list-style-type: none"> - Attenuation: less than 0,75 dB <p>Final measurements and performance requirements:</p> <ul style="list-style-type: none"> - Attenuation: less than 0,75 dB - Change in attenuation: less than 0,2 dB - The specimen has no mechanical damage
<p><i>Cable torsion</i> 4.5.5 (61300-2-5)</p> <p>Details:</p> <ul style="list-style-type: none"> - 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 <p>Initial measurements and performance requirements:</p> <ul style="list-style-type: none"> - Attenuation: less than 0,75 dB <p>Final measurements and performance requirements:</p> <ul style="list-style-type: none"> - Attenuation: less than 0,75 dB - Change in attenuation: less than 0,2 dB - The specimen has no mechanical damage

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