



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 50377-8-7:2007

ICS 33.180.20

**CONNECTOR SETS AND INTERCONNECT  
COMPONENTS TO BE USED IN OPTICAL  
FIBRE COMMUNICATION SYSTEMS -  
PRODUCT SPECIFICATIONS -- PART 8-7:  
LSH-PC TERMINATED ON IEC 60793-2-50  
CATEGORY B1.1 AND B1.3 SINGLEMODE  
FIBRE, WITH FULL ZIRCONIA FERRULE  
CATEGORY C**

National Standards  
Authority of Ireland  
Glasnevin, Dublin 9  
Ireland

Tel: +353 1 807 3800  
Fax: +353 1 807 3838  
<http://www.nsai.ie>

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN 50377-8-7**

August 2007

ICS 33.180.20

English version

**Connector sets and interconnect components  
to be used in optical fibre communication systems -  
Product specifications -  
Part 8-7: LSH-PC terminated on IEC 60793-2-50  
category B1.1 and B1.3 singlemode fibre,  
with full zirconia ferrule category C**

Jeux de connecteurs et composants  
d'interconnexion à utiliser  
dans les systèmes de communication par  
fibres optiques -  
Spécifications de produit -  
Partie 8-7: Type LSH-PC câblé  
sur une fibre unimodale des catégories  
B1.1 et B1.3 de la CEI 60793-2-50,  
ferrule tout zirconium, catégorie C

Steckverbindersätze  
und Verbindungselemente  
für Lichtwellenleiter-  
Datenübertragungssysteme -  
Produktnormen -  
Teil 8-7: Bauart LSH-PC zum Anschluss  
an Einmodenfasern der Typen  
B1.1 und B1.3 nach IEC 60793-2-50  
mit Zirkonium-Stift für die Kategorie C

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**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

## Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 86BXA, Fibre optic interconnect, passive and connectorised components.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 50377-8-7 on 2007-03-01.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2008-03-01
  - latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2010-03-01
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<b>Connector sets and interconnect components to be used in optical fibre communication systems - Product specifications</b>			
<b>Part 8-7: LSH-PC terminated on IEC 60793-2-50 category B1.1 and B1.3 singlemode fibre, with full zirconia ferrule category C</b>			
Description		Performance	
Coupling mechanism:	Latched push-pull	Application:	For use in EN category C (controlled environment)
Configuration:	Plug/adaptor/plug	Attenuation grades: (random mate)	B: $\leq 0,12$ dB mean $\leq 0,25$ dB for > 97 % of measurements C: $\leq 0,25$ dB mean $\leq 0,50$ dB for > 97 % of measurements
Fibre category:	EN 60793-2-50 Types B1.1 and B1.3	Return loss grades:	2: $\geq 45$ dB
Cable type:	See Table 3		
Related documents:			
EN 60794-2	Optical fibre cables - Part 2: Indoor cables - Sectional specification (IEC 60794-2)		
EN 61300 series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures (IEC 61300 series)		
EN 61753-1	Fibre optic interconnecting devices and passive components performance standard - Part 1: General and guidance for performance standards (IEC 61753-1)		
EN 61754-15	Fibre optic connector interfaces - Part 15: Type LSH connector family (IEC 61754-15)		
EN 61755-1	Fibre optic connector optical interfaces - Part 1: Optical interfaces for single mode non-dispersion shifted fibres - General and guidance (IEC 61755-1)		
EN 61755-3-1 <sup>1)</sup>	Fibre optic connector optical interfaces - Part 3-1: Optical interface, 2,5 mm and 1,25 mm diameter cylindrical full zirconia PC ferrule, single mode fibre (IEC 61755-3-1, mod.)		
Outline and maximum dimensions:			
<p>The technical drawing shows a side view of the LSH-PC connector assembly. The total length is 60 Ref. (Reference). The distance from the left end to the center of the ferrule is 34 max. The distance from the center of the ferrule to the right end is 38 max. The total length including the ferrule is 66 Ref. The drawing also shows a top view of the ferrule and a side view of the cable with a minimum radius of curvature R 30 min. The drawing is a line drawing with dimensions and reference values.</p>			

<sup>1)</sup> At draft stage.

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