



National Standards Authority of Ireland

STANDARD

I.S. EN 50377-7-3:2004

ICS 33.180.20

**CONNECTOR SETS AND INTERCONNECT
COMPONENTS TO BE USED IN OPTICAL
FIBRE COMMUNICATION SYSTEMS -
PRODUCT SPECIFICATIONS PART 7-3: TYPE
LC-APC DUPLEX TERMINATED ON IEC
60793-2 CATEGORY B1.1 SINGLEMODE
FIBRE**

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EUROPEAN STANDARD

EN 50377-7-3

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EUROPÄISCHE NORM

May 2004

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English version

**Connector sets and interconnect components
to be used in optical fibre communication systems –
Product specifications
Part 7-3: Type LC-APC duplex terminated on IEC 60793-2
category B1.1 singlemode fibre**

Jeux de connecteurs et composants
d'interconnexion à utiliser
dans les systèmes de communication
par fibres optiques –
Spécifications de produits
Partie 7-3: Type duplex LC-APC
câblé sur une fibre unimodale
de catégorie B1.1 selon la CEI 60793-2

Steckverbindersätze
und Verbindungselemente
für Lichtwellenleiter-
Datenübertragungssysteme –
Produktnormen
Teil 7-3: Bauart LC-APC-Duplex
zum Anschluss an Einmodenfasern
der Kategorie B1.1 nach IEC 60793-2

This European Standard was approved by CENELEC on 2003-12-02. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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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 50377-7-3 on 2003-12-02.

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) 2004-12-01

 - latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-12-01
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**Connector sets and interconnect components to be used in optical fibre communication systems –
Product specifications**

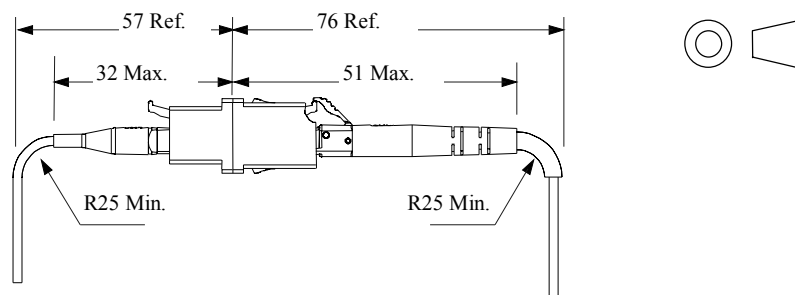
Part 7-3: LC-APC duplex terminated on IEC 60793-2 category B1.1 singlemode fibre

Description		Performance	
Coupling mechanism:	latch push-pull	Application:	IEC 61753-2-1 category U and ES 200-671 environments (see 1.3)
Configuration:	plug/adaptor/plug	Attenuation grade: (Random mate)	P: $\leq 0,35$ dB mean. $\leq 1,0$ dB for > 97 % of measurements
Fibre category:	IEC 60793-2-50 type B1.1	Return loss grade: (Random mate)	Q: $\leq 0,30$ dB mean. $\leq 0,60$ dB for > 99 % of measurements
Cable type	see Clause 4		1: ≥ 55 dB unmated ≥ 60 dB mated

Normative references

EN 60068-2-30	Environmental testing -- Part 2: Tests - Test Db and guidance: Damp heat, cyclic (12 + 12 hour cycle)
EN 61300 Series	Fibre optic interconnection devices and passive components - Basic test and measurement procedures
EN 61753-1-1	Fibre optic interconnecting devices and passive components performance standard - Part 1-1: General and guidance - Interconnecting devices (connectors)
EN 61754-20	Basic standard for interface dimensions - Part 20: Type LC connector family
EN 186000	Generic specification - Connector sets for optical fibres and cables
IEC 60794-2	Optical fibre cables - Part 2: Product specifications (Indoor cable)
ES 200-671	Passive optical components; Optical fibre connectors for single – Mode optical fibre communications system; Common requirements and conformance testing
ES 300 019 Series	Equipment Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment.

Outline and maximum dimensions:



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