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Standards

Irish Standard  
I.S. EN 50377-4-2:2011

Connector sets and interconnect components to be used in optical fibre communication systems - Product specifications -- Part 4-2: Type SC/APC simplex 8° terminated on IEC 60793-2-50 of types B1.1 and B1.3 singlemode fibre, with full zirconia ferrule category U

## I.S. EN 50377-4-2:2011

*Incorporating amendments/corrigenda issued since publication:*

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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EUROPEAN STANDARD

**EN 50377-4-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2011

ICS 33.180.20

English version

**Connector sets and interconnect components to be used in optical fibre communication systems -  
Product specifications -  
Part 4-2: Type SC/APC simplex 8° terminated on IEC 60793-2-50 of types B1.1 and B1.3 singlemode fibre, with full zirconia ferrule category U**

Jeux de connecteurs et composants d'interconnexion à utiliser dans les systèmes de communication par fibres optiques -  
Spécifications de produits -  
Partie 4 2: Type simplex SC/APC à 8 degrés câblé sur une fibre unimodale de types B1.1 et B1.3 selon la CEI 60793-2-50, avec férule en zircone plein de catégorie U

Steckverbindersätze und Verbindungselemente für Lichtwellenleiter-Datenübertragungssysteme -  
Produktnormen -  
Teil 4 2: Bauart SC-APC-Simplex, 8°, zum Anschluss an Einmodenfasern der Typen B1.1 und B1.3 nach IEC 60793-2-50 mit Zirkoniumdioxid-Ferrule für die Kategorie U

This European Standard was approved by CENELEC on 2011-01-02. 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.

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**CENELEC**

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

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## 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 formal vote and was approved by CENELEC as EN 50377-4-2 on 2011-01-02.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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) 2012-01-02
  - latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2014-01-02
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**Connector sets and interconnect components to be used in optical fibre communication systems –  
Product specifications**

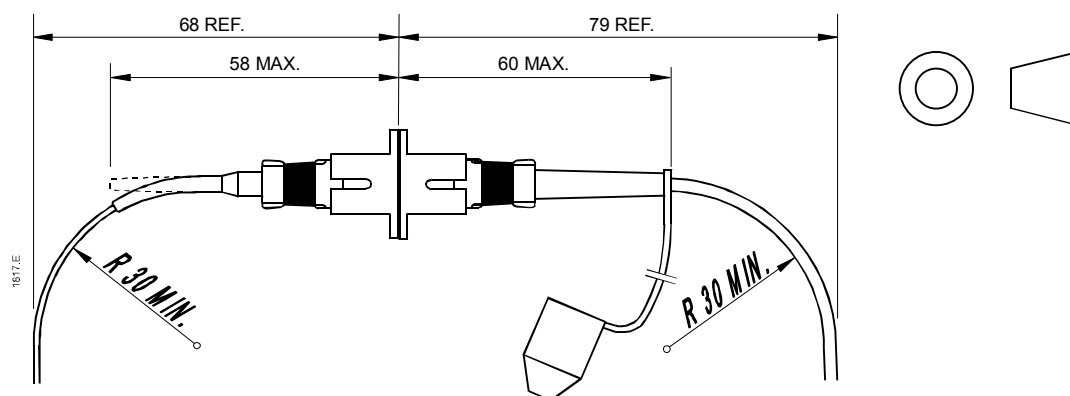
**Part 4-2: Type SC/APC simplex 8° terminated on IEC 60793-2-50 of types B1.1 and B1.3 singlemode  
fibre, with full zirconia ferrule category U**

Description		Performance	
Coupling mechanism:	Push-pull	Application:	For use in EN Category U (uncontrolled environment)
Configuration:	Plug/adaptor/plug	Attenuation grades: (random mate)	B: $\leq 0,12$ dB mean $\leq 0,25$ dB for 97 % of measurements
Fibre category:	EN 60793-2-50 Types B1.1 and B1.3		C: $\leq 0,25$ dB mean $\leq 0,50$ dB for 97 % of measurements
Cable type:	See Table 3	Return loss grade: (random mate)	1: $\geq 60$ dB mated $\geq 55$ dB unmated

**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 61754-4	Fibre optic connector interfaces – Part 4: Type SC connector family (IEC 61754-4)
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 61755-3-2:2009	Fibre optic connector optical interfaces – Part 3-2: Optical interface, 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules for 8 degrees angled-PC single mode fibres (IEC 61755-3-2:2006, mod. + corr. Jan. 2009)
ETSI EN 300 019 series	Environmental Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment
ETSI TS 100 671	Transmission and Multiplexing (TM); Passive optical components; Optical fibre connectors for single mode optical fibre communication systems; Common requirements and conformance testing

**Outline and maximum dimensions:**



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