

STN	Súbory konektorov a spájacie prvky pre optovláknové komunikačné systémy Špecifikácie výrobku Časť 4-3: Typ SC/APC simplex 9° na pripájanie na jednovidové vlákna kategórie B-652.D a B-657.A podľa IEC 60793-2-50 so zirkóniovým ochranným krúžkom, kategória OP	STN EN 50377-4-3 35 9242
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Connector sets and interconnect components to be used in optical fibre communication systems - Product specifications - Part 4-3: Type SC/APC simplex 9 terminated on EN 60793-2-50 of type B-652.D and B-657.A singlemode fibre with full zirconia ferrule, category OP

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

**Connector sets and interconnect components to be used in
optical fibre communication systems - Product specifications -
Part 4-3: Type SC/APC simplex 9° terminated on EN 60793-2-50
of type B-652.D and B-657.A singlemode fibre with full zirconia
ferrule, category OP**

Jeux de connecteurs et composants d'interconnexion à utiliser dans les systèmes de communication par fibres optiques - Spécifications de produit - Partie 4-3: Type SC/APC simplex 9° raccordé sur fibres unimodales de types B-652.D et B-657.A de l'EN 60793-2-50 avec une ferrule en zircone pleine, catégorie OP

Steckverbindersätze und Verbindungselemente für Lichtwellenleiter- Datenübertragungssysteme - Produktnormen - Teil 4-3: Bauart SC-APC-Simplex, 9°, zum Anschluss an Einmodenfasern der Typen B-652.D und B-657.A nach EN 60793-2-50 mit Zirkoniumdioxid-Ferrule für die Kategorie OP

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EN 50377-4-3:2022 (E)**European foreword**

This document (EN 50377-4-3:2022) has been prepared by CLC/TC 86BXA “Fibre optic interconnect, passive and connectorised components”.

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-06-06
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2025-06-06

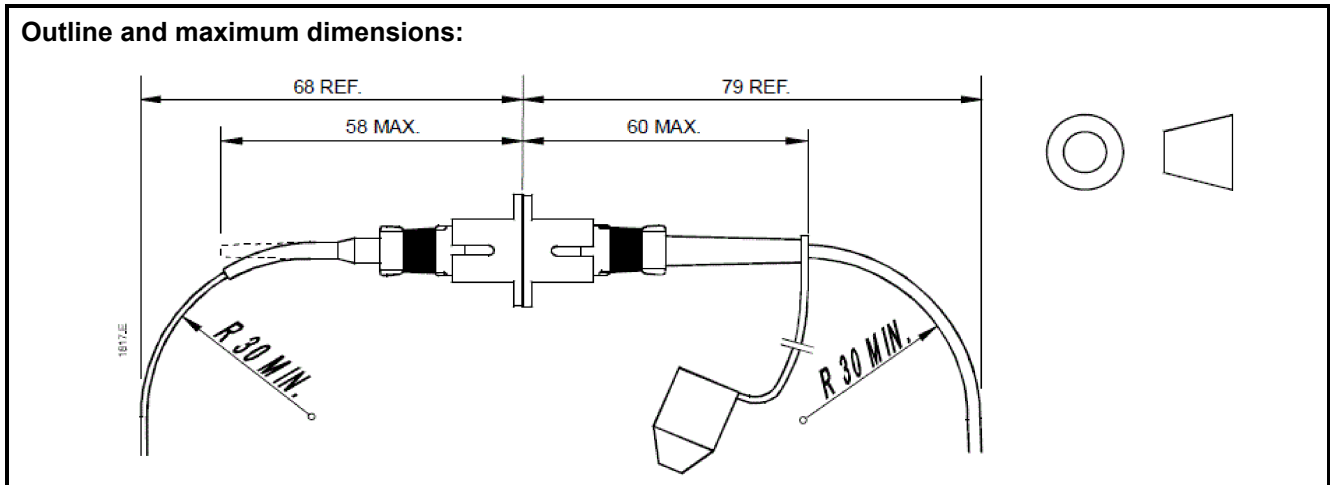
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Introduction

Connector sets and interconnect components to be used in optical fibre communication systems — Product specifications			
Part 4-3: Type SC/APC simplex 9° terminated on EN 60793-2-50 of type B-652.D and B-657.A singlemode fibre with full zirconia ferrule, category OP			
Description		Performance	
Coupling mechanism:	Push-pull	Application:	For use in EN Category OP (outdoor protected environment)
Configuration:	Plug/adaptor/plug	Attenuation grade: (random mate)	B: $\leq 0,12$ dB mean $\leq 0,25$ dB for 97 % of measurements
Fibre category:	EN 60793-2-50 Types — B-652.D and B-657.A		
Cable type:	See Table 3	Return loss grade: (random mate)	1: ≥ 60 dB mated ≥ 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 IEC 61753-1:2018	Fibre optic interconnecting devices and passive components performance standard — Part 1: General and guidance (IEC 61753-1:2018)		
EN IEC 61754-4	Fibre optic interconnecting devices and passive components — 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)		
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		

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1 Scope

1.1 Product definition

This document contains the initial, start of life dimensional, optical, mechanical and environmental performance requirements which a connector terminated with cylindrical zirconia 9° angled PC ferrule and assembled singlemode resilient alignment sleeve SC-APC simplex connector set (plug/adaptor/plug), adaptor and patchcord meet in order for it to be categorized as an EN standard product. This document is intended to replace CECC 86 265-803.

Since different variants are permitted, product marking details are given in 4.6.

1.2 Intermateability

Products conforming to the requirements of this document are intended to intermate, and it is expected that the specified level of random attenuation performance will be met. The intention is that this will be true irrespective of the manufacturing source(s) of the product.

1.3 Operating environment

The tests selected, combined with the severities and durations, are representative of a category OP environment described in EN IEC 61753-1.

1.4 Reliability

Whilst the anticipated service life expectancy of the product in this environment is 20 years, compliance with this document does not guarantee the reliability of the product. This is expected to be predicted using a recognized reliability assessment programme.

1.5 Quality assurance

Compliance with this document does not guarantee the manufacturing consistency of the product. This is expected to be maintained using a recognized quality assurance programme.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 61300-2-1, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal) (IEC 61300-2-1)*

EN 61300-2-2, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-2: Tests - Mating durability (IEC 61300-2-2)*

EN IEC 61300-2-4, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre/cable retention (IEC 61300-2-4)*

EN 61300-2-5, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests – Torsion (IEC 61300-2-5)*

EN 61300-2-6, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-6: Tests - Tensile strength of coupling mechanism (IEC 61300-2-6)*

EN 61300-2-7, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-7: Tests - Bending moment (IEC 61300-2-7)*

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EN 61300-2-12, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-12: Tests - Impact (IEC 61300-2-12)*

EN 61300-2-17, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-17: Tests – Cold (IEC 61300-2-17)*

EN 61300-2-18, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-18: Tests - Dry heat - High temperature endurance (IEC 61300-2-18)*

EN 61300-2-22, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-22: Tests - Change of temperature (IEC 61300-2-22)*

EN 61300-2-26, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist (IEC 61300-2-26)*

EN 61300-2-27, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-27: Tests - Dust - Laminar flow (IEC 61300-2-27)*

EN 61300-2-42, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-42: Tests - Static side load for strain relief (IEC 61300-2-42)*

EN 61300-2-44, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices (IEC 61300-2-44)*

EN IEC 61300-2-46, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-46: Tests - Damp heat cyclic (IEC 61300-2-46)*

EN 61300-2-50, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-50: Tests - Fibre optic connector proof test with static load - Singlemode and multimode (IEC 61300-2-50)*

EN 61300-3-6, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-6: Examinations and measurements - Return loss (IEC 61300-3-6)*

EN 61300-3-10, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-10: Examinations and measurements - Gauge retention force (IEC 61300-3-10)*

EN 61300-3-34, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-34: Examinations and measurements - Attenuation of random mated connectors (IEC 61300-3-34)*

EN 61300-3-42, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-42: Examinations and measurements - Attenuation of single mode alignment sleeves and or adaptors with resilient alignment sleeves (IEC 61300-3-42)*

EN 61300-3-47, *Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-47: Examinations and measurements - End face geometry of PC/APC spherically polished ferrules using interferometry (IEC 61300-3-47)*

ISO 8015, *Geometrical product specifications (GPS) - Fundamentals - Concepts, principles and rules*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN