



NSAI
Standards

Irish Standard
I.S. EN 50411-2-2:2012

Fibre organisers and closures to be used in optical fibre communication systems - Product specifications -- Part 2-2: Sealed pan fibre splice closures Type 1, for category S & A

I.S. EN 50411-2-2:2012

Incorporating amendments/corrigenda issued since publication:

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English version

**Fibre organisers and closures to be used in optical fibre communication systems -
Product specifications -
Part 2-2: Sealed pan fibre splice closures Type 1, for category S & A**

Organiseurs et boîtiers de fibres à utiliser dans les systèmes de communication par fibres optiques -
Spécifications de produits -
Partie 2-2: Boîtiers à épissure de fibres dans un support fermé Type 1, pour catégories S & A

LWL-Spleißkassetten und -Muffen für die Anwendung in LWL-Kommunikationssystemen -
Produktnorm -
Teil 2-2: LWL-Muffen Bauart 1 mit abgedichteter Schale für die Kategorien S und A

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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 document (EN 50411-2-2:2012) has been prepared by CLC/TC 86BXA, "Fibre optic interconnect, passive and connectorised components".

The following dates are fixed:

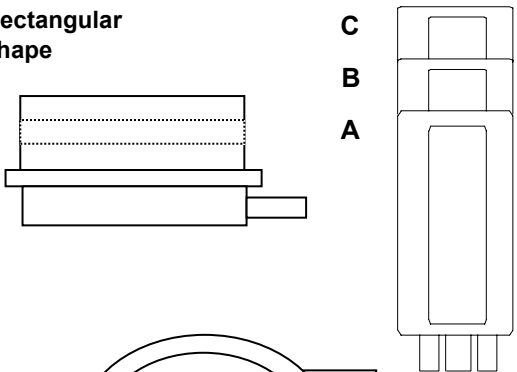
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2012-12-21
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This document supersedes EN 50411-2-2:2007.

EN 50411-2-2:2012 includes the following significant technical changes with respect to EN 50411-2-2:2007:

- the variant XX2 additional distribution closures with more cable entrance ports were defined (new versions D2, D3 and D4 were added);
- no other technical changes were made to the document.

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Fibre Organisers and closures to be used in optical fibre communication systems – Product specifications							
Part 2-2: Sealed pan fibre splice Closures Type.1, for category S & A							
Description Construction: Sealed Pan closure Cable seals: Heat activated and or cold applied Fibre management: Single Circuit, Single Element, Multiple Element and/or Single/Multiple Ribbon			Performance Applications: Optical fibre cable networks for underground; for aerial;				
			EN 61753-1 category S EN 61753-1 category A				
Related documents: EN 60793-2-50 Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres (IEC 60793-2-50) EN 60794-2 Optical fibre cables – Part 2: Indoor cables – Sectional specification (IEC 60794-2) EN 60794-3 Optical fibre cables – Part 3: Sectional specification – Outdoor cables (IEC 60794-3) EN 61753-1 Fibre optic interconnecting devices and passive components performance standard – Part 1: General and guidance for performance standard (IEC 61753-1) EN 61300 Series Fibre optic interconnecting devices and passive components – Basic test and measurement procedures (IEC 61300 Series) ETSI EN 300 019 Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment							
Construction and splice capacity:			Variant: Number Fibre Splices - Maximum capacity & Fibre management system – SC, SE, SR, ME and MR				
Rectangular shape			Single Circuit (SC)	Single Element (SE)	Single Ribbon (SR)	Multiple Element (ME) (24/36 f/tray)	Multiple Ribbon (MR) (144 f/tray)
			A 16 splices	A 96 splices	A 72 splices		
			B 36 splices	B 216 splices	B 144 splices	B 96 splices	
			C 60 splices	C 360 splices	C 288 splices	C 432 splices	
Circular shape			D 16 splices	D 96 splices	D 48 splices	D 144/192 splices	D 1152 splices
			E 24 splices	E 144 splices	E 72 splices	E 216/288 splices	E 1728 splices
			F 48 splices	F 288 splices	F 120 splices	F 360/576 splices	F 1440 splices
			G 96 splices	G 576 splices	G 192 splices	G 576/1152 splices	G 2304 splices
			H 144 splices	H 864 splices	H 360 splices	H 1080/1728 splices	H 4320 splices
Elliptical shape				J 144 splices	J 144 splices	J 144/432 splices	J 1728 splices
				K 288 splices	K 288 splices	K 288/864 splices	K 3456 Splices

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EN 50411-2-2:2012 (E)

1 Scope

1.1 Product definition

This specification contains the initial, start of life dimensional, optical, mechanical and environmental performance requirements of a fully installed splice closure in order for it to be categorised as an EN standard product.

1.2 Operating environment

The tests selected, combined with the severity and duration, are representative of an outside plant for subterranean and/or aerial environments defined by:

ETSI EN 300 019 class 8.1: underground locations (without earthquake requirement)

EN 61753-1 category S: subterranean environment
category A: aerial environment

1.3 Reliability

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

1.4 Quality assurance

Compliance with this specification does not guarantee the manufacturing consistency of the product. This should be maintained using a recognised quality assurance programme.

1.5 Allowed fibre and cable types

Although the performance tests are carried out on test samples with dispersion unshifted fibre (see Annex A), the closure, once tested according to this product specification, will be also suited for other fibre types like dispersion shifted, non-zero dispersion shifted and multi-mode fibres.

This closure standard allows both singlemode and multimode fibre to be used and covers all IEC standard optical fibre cables with their various fibre capacities, types and designs. This includes, but is not limited to, optical fibre cable standards IEC 60794-2 (indoor), IEC 60794-3 (outdoor).

2 Normative references

The following referenced documents are indispensable for the application 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 60793-2-50, *Optical fibres — Part 2-50: Product specification — Sectional specification for class B single mode fibres (IEC 60793-2-50)*

EN 61300 (all parts) *Fibre optic interconnecting devices and passive components — Basic test and measurement procedures (IEC 61300 all parts)*

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

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