



NSAI
Standards

Irish Standard
I.S. EN 50411-2-3:2012

Fibre organisers and closures to be used in optical fibre communication systems - Product specifications -- Part 2-3: Sealed inline fibre splice closures Type 1, for category S & A

I.S. EN 50411-2-3:2012

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ICS 33.180.20

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English version

**Fibre organisers and closures to be used in optical fibre communication systems -
Product specifications -
Part 2-3: Sealed inline 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 2-3: Boîtiers à épissures de fibres alignées scellés Type 1, pour catégories S & A

LWL-Spleißkassetten und -Muffen für die Anwendung in LWL-Kommunikationssystemen -
Produktnormen -
Teil 2-3: Abgedichtete LWL-Muffen Bauart 1 für die Kategorien S & A

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre 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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Foreword

This document (EN 50411-2-3:2012) 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 (dop) 2012-12-21 to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national (dow) 2012-12-21 standards conflicting with this document have to be withdrawn

This document supersedes EN 50411-2-3:2007.

EN 50411-2-3:2012 includes the following significant technical changes with respect to EN 50411-2-3:2007:

- 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.

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

Fibre organisers and closures to be used in optical fibre communication systems - Product specifications

Part 2-3: Sealed inline fibre splice closures Type 1, for category S & A

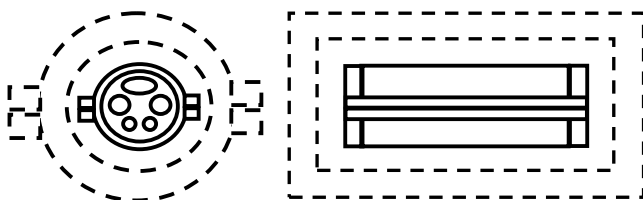
Description		Performance	
Construction:	Sealed Inline	Applications:	
Cable seals:	Heat activated and/or cold applied	Optical fibre cable networks	
Fibre management:	Single circuit, Single element, Multiple element and/or Single/Multiple Ribbon	for underground:	EN 61753-1 category S
		for aerial:	EN 61753-1 category A

Related documents:

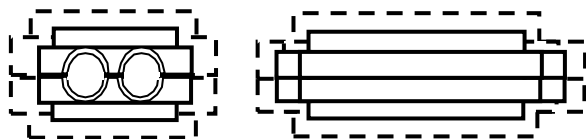
EN 60793-2-50	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres (IEC 60793-2-50)
EN 60794-2	Optical fibre cables - Part 2: Indoor cables - Sectional specification (IEC 60794-2)
EN 60794-3	Optical fibre cables - Part 3: Sectional specification - Outdoor cables (IEC 60794-3)
EN 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)
ETSI EN 300 019-1-4	Environmental Engineering (EE) - Environmental conditions and environmental tests for telecommunications equipment - Part 1-4: Classification of environmental conditions - Stationary use at non-weather protected locations

Construction and splice capacity:

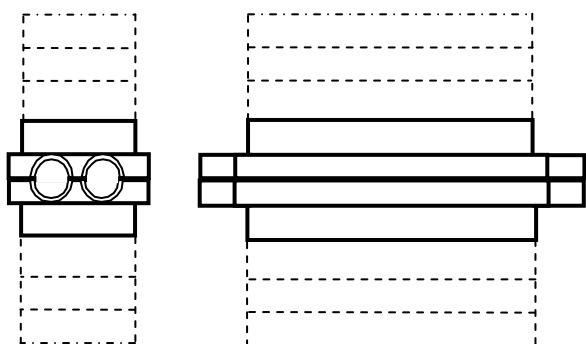
Closure Type 1 (A-E):



Closure Type 2A (F-G):



Closure Type 2B (H-L):



Variant: Number Fibre Splices - Maximum capacity & fibre management system – SC, SE, SR, ME and MR

S organiser			M organiser	
Single Circuit (SC)	Single Element (SE)	Single Ribbon (SR)	Multiple Element (ME)	Multiple Ribbon (MR)
A 8 Splice	A 48 Splice	A 48 Splice	A 144 Splice	A 288 Splice
B 16 Splice	B 96 Splice	B 96 Splice	B 288 Splice	B 1152 Splice
C 24 Splice	C 144 Splice	C 120 Splice	C 360 Splice	C 1728 Splice
D 48 Splice	D 288 Splice	D 288 Splice	D 864 Splice	D 3456 Splice
E 144 Splice	E 432 Splice	-	E 864 Splice	E 5184 splice
F 6 Splice	F 36 Splice	-	F 216 Splice	-
G 12 Splice	G 72 Splice	G 72 Splice	G 144 Splice	G 24 Splice
H 16 Splice	H 96 Splice	H 96 Splice	H 384 Splice	H 1152 Splice
J 22 Splice	J 132 Splice	J 132 Splice	J 528 Splice	J 1584 splice
K 40 Splice	K 240 Splice	-	K 480 Splice	
L 96 Splice	L 288 Splice	-	L 648 Splice	L 1152 Splice

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 is representative of outside plant for subterranean and/or aerial environments defined by:

ETSI EN 300 019-1-4 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 un-shifted singlemode 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 multimode fibres.

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

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