

STN	Vláknové organizátory a kryty pre optovláknové komunikačné systémy. Špecifikácie výrobku. Časť 2-10: Hermetické spojkové kryty typu 2, kategória G, pre optické distribučné siete FTTH.	STN EN 50411-2-10 35 9231
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Fibre organisers and closures to be used in optical fibre communication systems - Product specifications - Part 2-10: Sealed fibre splice closures type 2, category G, for FTTH optical distribution networks

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

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/15

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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, 2015
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EUROPEAN STANDARD

EN 50411-2-10

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January 2015

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English Version

**Fibre organisers and closures to be used in optical fibre
communication systems - Product specifications - Part 2-10:
Sealed fibre splice closures type 2, category G, for FTTH optical
distribution networks**

Organiseurs et boîtiers de fibres à utiliser dans les
systèmes de communication par fibres optiques -
Spécifications de produits - Partie 2-10: Boîtiers à épissure
de fibres scellés Type 2, catégorie G, pour réseaux de
distribution optiques FttH

LWL-Spleißkassetten und -Muffen für die Anwendung in
LWL-Kommunikationssystemen - Produktnormen - Teil 2-
10: Abgedichtete LWL-Muffen Typ 2 für die Kategorie G für
optische FTTH-Verteilnetze

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 50411-2-10:2015) 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) 2015-11-11
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2017-11-11

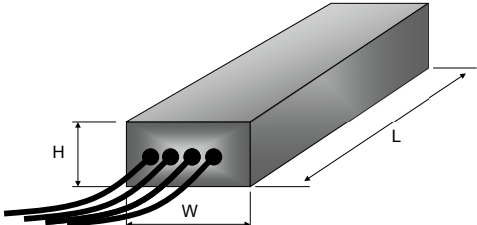
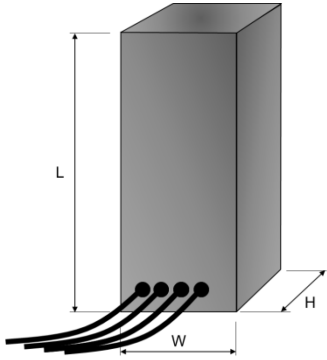
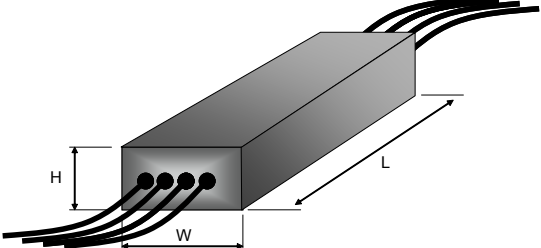
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Fibre organisers and closures to be used in optical fibre communication systems – Product specifications
Part 2-10: Sealed fibre splice closures type 2, category G, for FTTH optical distribution networks

Description	Performance
Construction: Sealed closures IP67 Fibre management: Single Circuit, Single Element, Multiple Element and/or Single/Multiple Ribbon	Applications: Optical fibre cable networks for ground level EN 61753-1, category G

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 – 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)

Construction and splice capacity:	Closure size and minimum total splice capacity					
	Closure size	Fibre management system separation level				
		Single Circuit (SC)	Single Element (SE)	Single Ribbon (SR)	Multiple Element (ME)	Multiple Ribbon (MR)
 Dome type	R	4	12	-	-	-
 Pan type	A	8	12	-	24	-
B	B	16	24	12	48	24
C	C	32	48	24	96	48
D	D	48	72	48	144	96
E	E	96	144	96	288	192
F	F	144	216	144	432	288
G	G	192	288	192	576	384
H	H	288	432	288	864	576
 In-line type						

1 Scope

1.1 Product definition

This specification contains the dimensional, optical, mechanical and environmental performance requirements of a fully installed splice closure for use in optical distribution networks at ground level (category G) in order for it to be categorised as an EN standard product. This type of sealed closure is intended for easy and/or frequent opening and closing in FTTH distribution and drop cable networks.

NOTE The sealing performance requirements and test severities of these closures are selected to obtain an IP 67 intrusion protection performance as defined in EN 60529.

1.2 Operating environment

The tests selected combined with the severity and duration are representative of an outside plant for ground level environment defined by EN 61753-1, category G: ground level. This corresponds with:

- operating temperature range: -40 °C to +65 °C;
- direct exposure to non weather protected outside plant conditions;
- deployment at ground level up to 3 metres above ground level;
- additionally to the category G environment, a deployment till 1 metre below ground level is added. Direct buried applications are allowed, however additional protection will be required when the locations are intended for passage of cars or other heavy vehicles.

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 containing dispersion unshifted single mode 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 single mode and multimode fibre to be used and covers IEC 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 documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 Series	Fibre optic interconnecting devices and passive components – Basic test and measurement procedures (IEC 61300 Series)
EN 61300-2-1	Part 2-1: Tests – Vibration (sinusoidal) (IEC 61300-2-1)
EN 61300-2-4	Part 2-4: Tests – Fibre/cable retention (IEC 61300-2-4)
EN 61300-2-5	Part 2-5: Tests – Torsion (IEC 61300-2-5)

EN 61300-2-10	Part 2-10: Test – Crush resistance (IEC 61300-2-10)
EN 61300-2-12	Part 2-12: Tests – Impact (IEC 61300-2-12)
EN 61300-2-22	Part 2-22: Tests – Change of temperature (IEC 61300-2-22)
EN 61300-2-23	Part 2-23: Tests – Sealing for non-pressurised closures of fibre optic devices (IEC 61300-2-23)
EN 61300-2-26	Part 2-26: Tests – Salt mist (IEC 61300-2-26)
EN 61300-2-33	Part 2-33: Tests – Assembly and disassembly of fibre optic mechanical splices, fibre management systems and closures (IEC 61300-2-33)
EN 61300-2-34	Part 2-34: Tests – Resistance to solvents and contaminating fluids of interconnecting components and closures (IEC 61300-2-34)
EN 61300-2-37	Part 2-37: Tests – Cable bending for fibre optic closures (IEC 61300-2-37)
EN 61300-2-38	Part 2-38: Tests – Sealing for pressurized fibre optic closures (IEC 61300-2-38)
EN 61300-3-1	Part 3-1: Examinations and measurements – Visual examination (IEC 61300-3-1)
EN 61300-3-3	Part 3-3: Examinations and measurements – Active monitoring of changes in attenuation and return loss (IEC 61300-3-3)
EN 61300-3-28	Part 3-28: Examinations and measurements – Transient loss (IEC 61300-3-28)
EN 61753-1	Fibre optic interconnecting devices and passive components performance standard – Part 1: General and guidance for performance standards (IEC 61753-1)

koniec náhľadu – text ďalej pokračuje v platenej verzii STN