

Irish Standard I.S. EN 50411-3-5:2015

Fibre organisers and closures to be used in optical fibre communication systems - Product specifications - Part 3-5: Wall outlet

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I.S. EN 50411-3-5:2015

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National Foreword

I.S. EN 50411-3-5:2015 is the adopted Irish version of the European Document EN 50411-3-5:2015, Fibre organisers and closures to be used in optical fibre communication systems - Product specifications - Part 3-5: Wall outlet

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English Version

Fibre organisers and closures to be used in optical fibre communication systems - Product specifications - Part 3-5: Wall outlet

Organiseurs et boîtiers de fibres à utiliser dans les systèmes de communication par fibres optiques -Spécifications de produits - Partie 3-5: Prise murale LWL-Spleißkassetten und Muffen für die Anwendung in LWL-Kommunikationssystemen - Produktspezifikationen - Teil 3-5: Wandanschlussdose

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

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European foreword

This document (EN 50411-3-5:2015) 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 (dop) 2016-06-11 to be implemented at national level by publication of an identical national standard or by endorsement

 | latest data by which the national (dow) 2018-06-15
- latest date by which the national standards conflicting with this document have to be withdrawn

(dow) 2018-06-15

EN 50411, Fibre organisers and closures to be used in optical fibre communication systems — Product specifications, is currently composed of the following parts:

- Part 2: General and guidance for optical fibre cable joint closures, protected microduct closures, and microduct connectors:
- Part 2-2: Sealed pan fibre splice closures Type 1, for category S & A;
- Part 2-3: Sealed inline fibre splice closures Type 1, for category S & A;
- Part 2-4: Sealed dome fibre splice closures Type 1, for category S & A;
- Part 2-5: Sealed closures for air blown fibre microduct, type 1, for category S & A;
- Part 2-8: Microduct connectors, for air blown optical fibres, Type 1;
- Part 2-9: Non-sealed closures for air blown fibre microduct cable, for category S & A;
- Part 2-10: Sealed fibre splice closures type 2, category G, for FTTH optical distribution networks;
- Part 3-1: Fibre management system, splice wall box, for category C & G;
- Part 3-2: Singlemode mechanical fibre splice;
- Part 3-3: Singlemode optical fibre fusion splice protectors;
- Part 3-4: Fibre management system, modular splice and connector wall box, for category C & A [currently at Enquiry stage];
- Part 3-5: Wall outlet [the present document];
- Part 3-6: Multimode mechanical fibre splice for use in an outdoor protected environment (Cat U);

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- Part 3-8: Fibre management system, terminal equipment box type 1 for category C [currently at Formal Vote stage];
- Part 6-1: Unprotected microduct for category S and A.

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Fibre organisers and closures to be used in optical fibre communication systems - Product specifications Part 3-5: Fibre management system, FTTH wall outlet, for category C Description **Performance Construction:** Wall /Flush/Trunking mounted **Applications:** outlet Fibre line termination in FTTH networks for indoor Cable Fixing: controlled environments EN 61753-1 Category C Mechanical Sealing performance: IP 40 EN 50377 series Connector: EN 60603-7 series Fibre types: EN 60793-2-50, B1 and B6 Fibre management: Integrated in wall outlet Related documents: EN 60529 Degrees of protection provided by enclosures (IP Code) (IEC 60529) EN 60793-2-50 Optical fibres — Part 2-50: Product specifications — Sectional specification for class B single-mode fibres (IEC 60793-2-50) 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) Maximum outline Shape dimensions Width: 150 mm Height: 210 mm Depth: 60 mm Height Depth

Width

1 Scope

1.1 Product definition

This European Standard covers wall outlets for up to 4 SC foot-print adapters. Various connector types (e.g. SC, LC) can be implemented as long as the adapter fits in the SC foot-print dimensions.

A Wall Outlet is the passive end connection point of a fixed Single Mode fibre based FTTH network to the flexible network of service unit (CPE, ONT) indoor. Products defined by IEV 442-08-02 or IEV 723-09-22 can be considered as Wall Outlets. SI or ENTI are not part of this wall outlet specification.

This specification also covers the possibility of using hybrid (fibre/copper) wall outlets with 1 RJ-45 footprint.

Performance of copper cabling and connectivity is not in the scope of this document, but should be verified in line with EN 50346.

Wall outlets are placed in end user premises by installers and the contents are not intended to be user accessible. Wall outlets may be mounted using a number of techniques: surface mounted on a wall, patress boxes, trunking or raceway; flush mounted or between cable trunking. Cable entry points vary with mounting method: surface mounted or flush mounted boxes may require large holes at the rear of the wall outlet for cable entry requiring little or no strain relief, whereas boxes with cable entry visible to the end user will need cable sealing and strain relief.

Wall outlets covered in the product specification will include a fibre management system (FMS) for managing the incoming cables or fibres. The FMS may include trays for splicing pigtails to incoming cable/fibre.

This European Standard contains the initial, start of life dimensional, optical, mechanical and environmental performance requirements of an optical fibre wall outlet, in order for it to be categorized as an European Standard product.

1.2 Operating environment

The tests selected combined with the severity and duration is representative of indoor environments defined by:

EN 61753-1 category C Controlled 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 recognized 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 recognized quality assurance programme.



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