

Organizadores y envolventes de fibra usados en sistemas de comunicación con fibra óptica. Especificaciones de producto. Parte 2-4: Sellado de la envolvente de la fibra Tipo 1, para categoría S & A. (Ratificada por AENOR en abril de 2012.) (Ratificada por la Asociación Española de Normalización en enero de 2022.)

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Organizadores y envolventes de fibra usados en sistemas de comunicación con fibra óptica. Especificaciones de producto. Parte 2-4: Sellado de la envolvente de la fibra Tipo 1, para categoría S & A. (Ratificada por AENOR en abril de 2012.) (Ratificada por la Asociación Española de Normalización en enero de 2022.)

*Fibre management systems and protective housings to be used in optical fibre communication systems - Product specifications - Part 2-4: Sealed dome fibre splice closures for category S & A (Endorsed by Asociación Española de Normalización in January of 2022.)*

*Organiseurs et boîtiers de fibres à utiliser dans les systèmes de communication par fibres optiques - Spécifications de produits - Partie 2-4: Boîtiers à épissure de fibres sous dôme scellés Type 1, pour catégories S & A (Entérinée par l'Asociación Española de Normalización en janvier 2022.)*

En cumplimiento del punto 11.2.5.4 de las Reglas Internas de CEN/CENELEC Parte 2, se ha otorgado el rango de documento normativo español UNE al documento normativo europeo EN 50411-2-4:2021 (Fecha de disponibilidad 2021-11-26)

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## Asociación Española de Normalización

Génova, 6  
28004 MADRID-España  
Tel.: 915 294 900  
[info@une.org](mailto:info@une.org)  
[www.une.org](http://www.une.org)

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## English Version

**Fibre management systems and protective housings to be used  
in optical fibre communication systems - Product specifications -  
Part 2-4: Sealed dome fibre splice closures for category S & A**

Organiseurs et boîtiers de fibres à utiliser dans les  
systèmes de communication par fibres optiques -  
Spécifications de produits - Partie 2-4: Boîtiers à épissure  
de fibres sous dôme scellés Type 1, pour catégories S & A

LWL-Spleißkassetten und -Muffen für die Anwendung in  
LWL-Kommunikationssystemen - Produktnormen - Teil 2-4:  
LWL-Muffen Bauart 1 mit abgedichteter Haube für die  
Kategorien S und A

This European Standard was approved by CENELEC on 2021-08-09. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 50411-2-4:2021) 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 (dop) 2022-05-26  
implemented at national level by publication of  
an identical national standard or by  
endorsement
- latest date by which the national standards (dow) 2024-11-26  
conflicting with this document have to be  
withdrawn

This document supersedes EN 50411-2-4:2012 and all of its amendments and corrigenda (if any).

EN 50411-2-4:2021 includes the following significant technical changes with respect to EN 50411-2-4:2012:

- reference EN IEC 61756-1 is added;
- terms and definitions are added;
- harmonized general requirements with the EN IEC 61753-111 series;
- the IEC 61753-1:2007 categories A and S tests and test severities are replaced by the IEC 61753-1:2018 categories A and S tests and test severities;
- maximum single circuit splice capacity of size E closure reduced from 84 splices to 72 splices;
- variant XX<sub>7</sub> (FMS designed for fibre type) added;
- test pressure for category A changed to 20 kPa overpressure;
- reduced loads in cable retention test for small diameter cables and tubes;
- axial compression test of cables is added;
- number of assembly and disassembly cycles reduced to 5 cycles;
- resistance to solvents and contaminating fluids for category S has changed. The duration of the immersion in diesel became 1 h and the drying time 24 h. Immersion in kerosene is removed;
- duration of the change of temperature reduced to 12 cycles;
- the test “resistance to shot gun blasts” test is removed;
- fibre type B-567 added for test sample.

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