Nederlandse

Ontwerp

norm

NEN-EN 50411-2-9

Fibre organisers and closures to be used in optical fibre communications systems - Product specifications - Part 2-9: Non-sealed closures for air blown fibre microduct cable, for category S & A

Publicatie uitsluitend voor commentaar

november 2008
ICS 33.180.20

Commentaar voor 2009-02-06

Als Europees normontwerp is gepubliceerd: prEN 50411-2-9:2008,IDT

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Normcommissie 365 086 "Glasvezelcommunicatie (NEC 86)"

NEN

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DRAFT prEN 50411-2-9

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2008

ICS 33.180.20

English version

Fibre organisers and closures to be used in optical fibre communications systems - Product specifications - Part 2-9: Non-sealed closures for air blown fibre microduct cable, for category S & A

Organiseurs et boîtiers de fibres à utiliser dans les systèmes de communication par fibres optiques - Spécifications de produits - Partie 2-9: Boîtiers non scellés pour fibres / microconduits / câbles installées par soufflage, de catégories S & A

To be completed

This draft European Standard is submitted to CENELEC members for CENELEC enquiry. Deadline for CENELEC: 2009-03-06.

It has been drawn up by CLC/TC 86BXA.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CENELEC in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Project: 20857 Ref. No. prEN 50411-2-9:2008 E

Foreword

This draft European Standard was prepared by the Technical Committee CENELEC TC 86BXA, Fibre optic interconnect, passive and connectorised components. It is submitted to the CENELEC enquiry.

_____

Fibre organisers and closures to be used in optical fibre communications systems – Product specifications

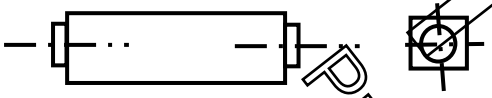
Part 2-9: Non-sealed closures for air blown fibre microduct cable, for category S & A

Description		Performance	
Construction:	Multiple ported closure	Applications:	
Cable management:	Microduct , protected microduct, ducts and/or sub-ducts.	Blown optical fibre cable networks:	EN 61753-1 Category S
Cable seals:	Heat activated and or cold applied	for underground:	EN 61753-1 Category A
		for aerial:	IP40

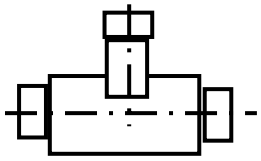
Related documents:

EN 50411-2	Fibre organisers and closures to be used in optical fibre communication systems – Product specifications – Part 2: General and guidance for optical fibre cable joint closures, protected microduct closures, and microduct connectors
EN 50411-2-8	Part 2-8: Microduct connectors, for air blown optical fibres, Type 1
EN 60793-2-50	Optical fibres – Part 2-50: Product specifications – Sectional specification for class B single-mode fibres (IEC 60793-2-50)
EN 60794-5	Optical fibre cables – Part 5: Sectional specification – Microduct cabling for installation by blowing (IEC 60794-5)
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 series	Environmental Engineering (EE) – Environmental conditions and environmental tests for telecommunications equipment

Construction:



(I) Closures



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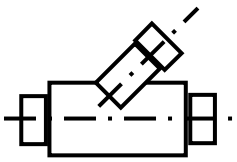
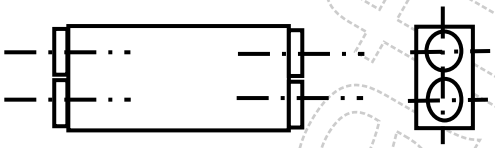
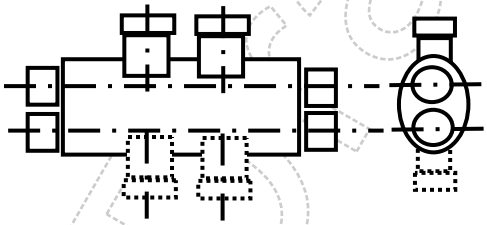


(Y) Closures



(H) Closures



(U) Closures

Duct and cable port entries and dimensions (All direct burial, jointing pit or aerial mounted)

Closure	Min. number of ports	Max sizes of protected microduct cables or ducts (mm)		Maximum physical dimensions (mm) Length L Width W Depth D
		Inline retrofit ports	Range of drop ports	
(I)	2	50	N/A	410 × 120 × 120
(T)	3	50	50	390 × 240 × 100
(Y)	3	50	50	380 × 210 × 100
(H)	4	60	60	830 × 340 × 160
(U)	12	50	50	600 × 470 × 310

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1 Scope

1.1 Product definition

This specification contains the initial, start of life dimensional, mechanical and environmental performance requirements which a fully installed blown fibre protected, Non-sealed closure for duct and microduct cable, must meet in order for it to be categorised as an EN standard product.

These products are suitable for installation of and use with microduct fibre units, microduct optical fibre cables, microduct and protected microduct as defined within EN 60794-5.

1.2 Operating environment

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

- ETSI EN 300 019 series: Class 8.1: underground locations (without earthquake requirement);
- EN 61753-1: Category S: subterranean environment;
  Category A: aerial environment.

1.3 Test severity

The test severities are based on IP40 (see EN 60529). The test criteria for all mechanical and environmental tests covers visual appearance,and protected microduct retention of the closure.

It is generally accepted practice that liquids will enter the closure through its body or connected ducts.

1.4 Reliability

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

1.5 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.

1.6 Allowed fibre and cable types

This closure standard covers all IEC/EN standard optical fibre microducts, and protected microducts with their various fibre capacities, types and designs. This includes, but is not limited to, optical fibre cable standard EN 60794-5.

This product specification has only considered protected microduct cables containing microducts of same outside diameters. There are other hybrid protected microduct cables with microducts of differing OD's, It may be possible to use these hybrids, however the user must verify suitability in each case. .

1.7 Allowed microduct connector types

This closure standard covers all EN standard microduct connectors, including: straight, reducer/enlarger stem, reducer/enlarger, close down, liquid block, liquid block with barb end, and end stop connectors. This includes EN 50411-2-8.

Bestelformulier

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