

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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Voorbeeld
Preview

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 CEN/TC 86BKA.

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.

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Europäisches Komitee für Elektrotechnische Normung

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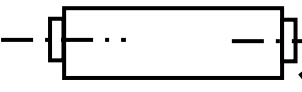
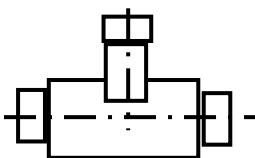
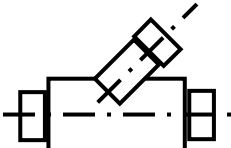
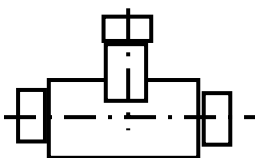
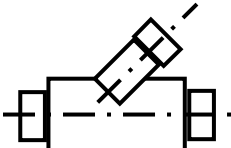
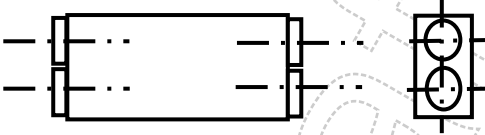
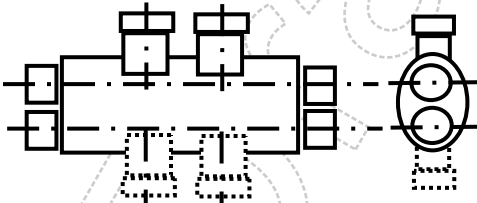
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Foreword

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

4

Draft for EN enquiry
Preview

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:			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
			(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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127 **1 Scope**

128 **1.1 Product definition**

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

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

134 **1.2 Operating environment**

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

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

140 **1.3 Test severity**

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

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

144 **1.4 Reliability**

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

148 **1.5 Quality assurance**

149 Compliance with this specification does not guarantee the manufacturing consistency of the product. This
150 should be maintained using a recognised quality assurance programme.

151 **1.6 Allowed fibre and cable types**

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

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

158 **1.7 Allowed microduct connector types**

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

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