Excel Enbeam OS2 FTTx Drop Cable 250 µm 4 Core Cca White

Part Code: 205-331

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CIBSE TM65 Embodied Carbon: 0.049 kg CO2e



Main Features

- G.657.A2 Bend Insensitive
- Ideal for FTTx/PON Applications
- Euroclass Cca-s1b-d0-a1
- Small Diameter Pre-terminated options
- 250 micron fibre
- 25 Year system warranty

Product Overview

Enbeam OS2 Singlemode FTTx Drop Cable 250 µm 4 Core 9/125 Cca White, part of a huge range of OS2 fibre optic cables fully stocked at Mayflex.
The Enbeam from 2 to 4-core mini breakout/drop cable is designed for indoor FTTx applications.

The very small diameter, high strength and CPR compliance to Cca, coupled with bend-insensitive fibres makes this cable ideal for behind-the-wall installations in any FTTx or PON network, especially where space is tight.

The cable can be supplied on reels or pre-cut lengths as well as pre-terminated on one end into an outlet box.

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Product Specifications

Feature	Values
Number of Cores	**4**
Number of fibres per tube	**4**
Fibre type	**Single mode 9/125**
Category	**OS2**
Rodent resistant	**yes**
Outer sheath colour	**White**
Longitudinal water blocking cable	**no**
Flame retardant according to IEC 60332-1-2	**yes**
Low smoke (acc. IEC 61034-2)	**yes**
Reaction-to-fire class according to EN 13501-6	**Cca**
Smoke development class according to EN 13501-6	**s1b**
Euro class flaming droplets/particles according to EN 13501-6	**d0**
Euro class acidity according to EN 13501-6	**a1**
Outer diameter approx.	**3 mm**
RAL-number	**9010**

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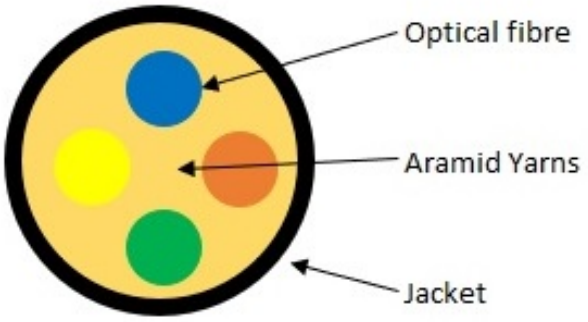
Cross-section diagram



Fibre specifications

Features		Values
Attenuation	**@1310 nm (dB/km)**	**≤ 0.35**
	@1383 nm (dB/km)	**≤ 0.35**
	@1490 nm (dB/km)	**≤ 0.24**
	@1550 nm (dB/km)	**≤ 0.20**
	@1625 nm (dB/km)	**≤ 0.23**
Fibre Core (µm)		**8.2**
Core Non-Circularity		**≤ 0.7 %**
Core-Clad Concentricity (µm)		**≤ 0.5**
Cladding Diameter (µm)		**125.0 ± 0.7**
Cladding Non-Circularity		**≤ 1.0 %**
Coating Diameter (µm)		**± 5**
Coating-Clad Concentricity Error (µm)		**≤ 12**

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Jacket Material : LSFRZH	**LSFRZH**
Stregth member	**Aramid yarn**
1-4 Fibre Colour	**Blue, Orange, Green, Brown**
Numerical aperture	**0.14**

Standards

Applicable standard	Subject
IEC 60332-1-2:2004	Tests on electric and optical fibre cables under fire conditions. Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame
IEC 60754-2:2014+A1:2020	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity
IEC 61034-2:2005+A2:2020	Measurement of smoke density of cables burning under defined conditions – Part 2: Test procedure and requirements
IEC 60793-1-1:2022	Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance
IEC 60793-1-20:2014	Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry
IEC 60793-1-21:2001	Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry
IEC 60793-1-22:2001	Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement
IEC 60793-1-30:2010	Optical fibres - Part 1-30: Measurement methods and test procedures - Fibre proof test
ITU G.652.D	Characteristics of a single-mode optical fibre and cable
EN 50173-1:2018	Information technology. Generic cabling systems - General

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	requirements
EN 50575: 2014 + A1: 2016	Power, control and communication cables — Cables for general applications in construction works subject to reaction to fire requirements
EN 50399:2011+A1:2016	Common test methods for cables under fire conditions. Heat release and smoke production measurement on cables during flame spread test. Test apparatus, procedures, results
ISO/IEC 11801-1:2017	Information technology - Generic cabling for customer premises: Part 1 General Requirements
ANSI/TIA 568-3.D	Optical Fiber Cabling and Components Standard
ANSI/TIA/EIA 598-D	Optical Fibre Cable Colour Coding
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states).
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant.
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH.
Regulation (EU) 2019/1021 (POPs)	EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).
UK SI 2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

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Part Code Table

Part Code	Description
205-331	**Excel Enbeam OS2 FTTx Drop Cable 250 µm 4 Core Cca White**
205-332	**Excel Enbeam OS2 FTTx Drop Cable 250 µm 2 Core Cca White**

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