



✗ G.657.A2 Bend Insensitive

✗ Small Diameter Pre-terminated options

✗ Ideal for FTTx/PON Applications

✗ 250 micron fibre

✗ Euroclass Cca-s1b-d0-a1

✗ 25 Year system warranty

✗ CIBSE TM65 Embodied Carbon: 0.049 kg CO<sub>2</sub>e

## 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.

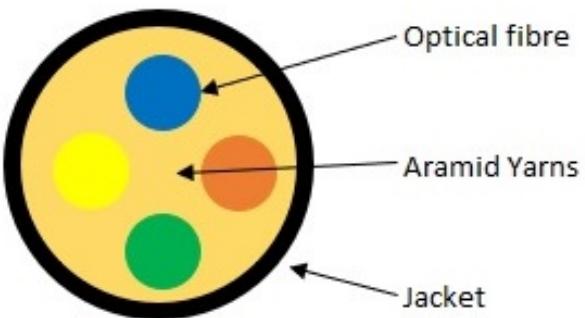
The cable can be supplied on reels or pre-cut lengths as well as pre-terminated on one end into an outlet box.

## 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

### Cross-section diagram



### Fibre specifications

Features	Values
Attenuation @1310 nm (dB/km)	≤ 0.35
Attenuation @1383 nm (dB/km)	≤ 0.35
Attenuation @1490 nm (dB/km)	≤ 0.24
Attenuation @1550 nm (dB/km)	≤ 0.20
Attenuation @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
Jacket Material : LSFRZH	LSFRZH
Strength 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 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
RoHS-II/-III (2011/65/EU & 2015/863): 2023	Our products, demonstrate full adherence to the regulatory stipulations of the EU Directive 2011/65/EU (RoHS-II) and its corresponding delegated directive 2015/863 (RoHS-III).
WFD: 2023	Compliant to Waste Framework Directive
SCIP: 2023	Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)
POPs (EU) No 2019/1021	EU Regulation for the restriction of Persistent Organic Pollutants.

### Part Number Table

Part Number	Description
205-331	Excel Enbeam OS2 FTTx Drop Cable 250 ?m 4 Core Cca White
205-332	Excel Enbeam OS2 FTTx Drop Cable 250 ?m 2 Core Cca White

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