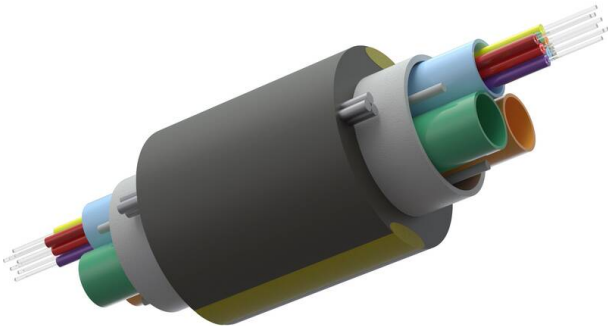


Excel Enbeam OS2 ULW Rodent Resistant G.657.A1  
Aerial Fibre Cable LT 8 Core Fca Black

Item Code: 328-008



- X G.657.A1 bend insensitive
- X Rodent resistant
- X Ultra-Light Weight Design
- X 7 mm cable diameter
- X Euroclass: Fca
- X PIA approved

Product Overview

Enbeam OS2 Ultra-Light Weight SM G.657.A1 Aerial Fibre Cable Loose Tube 8 Core 9/125 HDPE Fca Black, part of a huge range of OS2 Fibre optic cables fully stocked at Mayflex.  
The Enbeam Ultra-Light Weight fibre has been designed for aerial installations into the fibre access network.

The cable is constructed from multiple gel filled micromodules, overlaid with water swellable yarn and water blocking tape and then covered with a High Density Polyethylene (HDPE) outer jacket with yellow stripes containing 2 brass coated steel wire strength members and offers 4 to 48 fibre core counts.

Product Specifications

Feature	Values
Number of Cores	8
Type of tube	Loose tube
Number of fibres per tube	8
Fibre type	Single mode 9/125
Category	OS2
Outer sheath material	HDPE
Outer sheath colour	Black
Reaction-to-fire class according to EN 13501-6	Fca
UV resistant	yes
Outer diameter approx.	7 mm

**Product drawing**

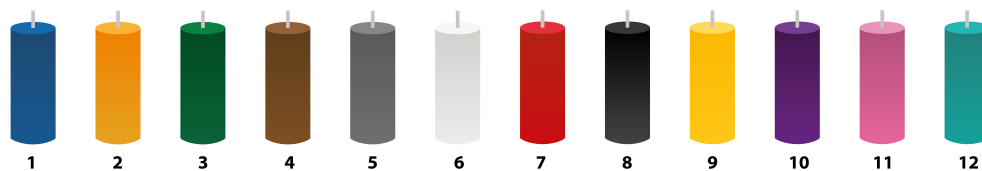


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## Colour coding (as per TIA-598-C)



For fibre core counts above 12 the colour sequence is repeated with the addition of a mark every 70mm for cores 13-24 and two marks for 25-36 and so on.

## Fibre specifications

Features		Values
Attenuation	@1310nm	≤0.35 dB/km
	@1550nm	≤0.21 dB/km
	@1625nm	≤0.23 dB/km
Chromatic dispersion coefficient	1285nm - 1330nm	≤3.5ps/km·nm
	@1550nm	≤18.0ps/km·nm
	1565nm - 1625nm	≤22.0ps/km·nm
Zero dispersion wavelength - $\lambda_0$		1302-1324nm
Zero dispersion slope		≤0.092 ps/(km·nm <sup>2</sup> )
Cut-off Wavelength - $\lambda_{cc}$		1100-1320nm
Polarization mode dispersion	Individual fibre	≤0.1ps/√Km
	Design link value	≤0.04ps/√Km
Macro bending loss	100 turns, 50mm radius	≤0.05dB@1310/1550nm
	100 turns, 60mm radius	≤0.05dB@1625nm
Cladding diameter		125.0±0.7μm
Cladding non-circularity		≤1.0%
Primary coating diameter		242±5μm
Primary coating material		UV Cured Acrylite
Core - Cladding concentricity error		≤0.5μm
Coating - Cladding concentricity error		≤12μm
Fibre curl radius		≥4m
Mode field diameter	@1310nm	9.2±0.4μm

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@1550 nm

10.4±0.5µm

Proof stress level

1.0% (100kpsi)

## Cable specifications

Features		Values
Weight (kg/km)	4-48 core	40.0 (nominal)
Number of fillers	4-12 core	2
	24-core	1
	36-48 core	0
Embedding strength member	Dimension	3 x 0.32 mm
	Type	Brass Coated Steel Wire
Moisture Barrier	Type	Water Blocking Yarn & Water Swellable Tape
Outer sheath	Material	HDPE
	Thickness	1.6 mm (nominal)
	Strip marking width	1.25 mm (nominal)
	Strip marking type	HDPE Yellow
Break load		1900 N
Tensile Strength		1250 N
Crush Resistance		2000 N
Minimum Bending Radius	During installation	20D
	After installation	10D
Voltage Test	Along power line, min vertical distance of 1.8 m	11 Kv
Resistance to wind/ice	97 kph wind	No ice
	80 kph wind	5 mm ice
	0 kph wind	10 mm ice
Temperature	Installation	-10°C to +60°C
	Operation	-30°C to +70°C
	Storage	-40°C to +70°C

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Part Number Table

Part Number	Description
328-008	Excel Enbeam OS2 ULW Rodent Resistant G.657.A1 Aerial Fibre Cable LT 8 Core Fca Black

Excel is a world class premium performing end to end infrastructure solution designed,  
Manufactured, supported and delivered without compromise.

Contact us at [sales@excel-networking.com](mailto:sales@excel-networking.com)



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