



☒ G.657.A1 bend insensitive

☒ Rodent resistant

☒ Ultra-Light Weight Design

☒ 7 mm cable diameter

☒ Euroclass: Fca

☒ 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
Outer diameter approx.	7 mm

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

Item Code: 328-008

excel
without compromise.

Product drawing



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 - λ_0	1302-1324nm	
Zero dispersion slope	≤0.092 ps/(km·nm ²)	
Cut-off Wavelength - λ_{cc}	1100-1320nm	
Polarization mode dispersion	Individual fibre	≤0.1ps/v/Km
	Design link value	≤0.04ps/v/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

	@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

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

E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.

excel
without compromise.