

Excel Enbeam OS2 Micro Blown Singlemode
G.657.A1 Fibre Cable Loose Tube 12 Core 2.1mm
Fca Orang...
Item Code: 208-794



- X G.657.A1 Bend insensitive
- X 2 to 24 cores available
- X Small light weight design
- X Recommended internal duct size - 3.5mm
- X Euroclass Fca
- X 25 Year system warranty

Product Overview

Enbeam OS2 Micro Blown SM G.657.A1 Fibre Cable Loose Tube 12 Core 2.1mm Fca Orange, part of a huge range of OS2 fibre optic cables fully stocked at Mayflex.

Enbeam fibre units are designed specifically for blown-fibre applications and are optimized for installation within our range of blown-fibre tubes. The fibres are contained within a double layer of jacket material, the inner layer is polycarbonate and the outer jacket is nylon 12 with a gel filling compound to cushions the fibres.

Available in 2 to 24 cores with an outer diameter of 2.0mm to 2.6mm this compact and lightweight cable is ideal for access networks applications and can be blown up to 1000mtr in the Excel Enbeam Micro-duct system with an inner diameter as small as 3.5mm.

Please note this cable is used for blown systems only and should not be manually pulled into ducts.

Product Specifications

Feature	Values
Number of Cores	12
Type of tube	Loose tube
Number of fibres per tube	12
Fibre type	Single mode 9/125
Category	OS2
Outer sheath colour	Orange
Reaction-to-fire class according to EN 13501-6	Fca
Outer diameter approx.	2.1 mm

yes

Fibre

Filling Gel

Outer Sheath

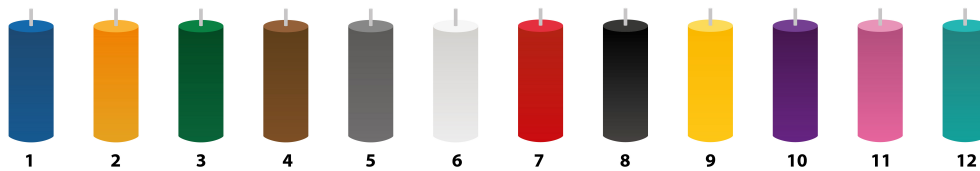
Features		Values
Attenuation	@1310nm	≤0.36 dB/km
	@1383nm	≤0.36 dB/km
	@1550nm	≤0.23 dB/km
Chromatic Dispersion Coefficient	1285nm – 1330nm	≤3.5ps/km·nm
	@1550nm	≤18.0ps/km·nm
Zero Dispersion Wavelength, λ0		1304-1324nm
Zero Dispersion Slope		≤0.092 ps/(km·nm2)
Cut-off Wavelength, λcc		≤1260nm
Polarization mode dispersion	Individual fibre	≤0.2ps/√Km
Design link value		≤0.8ps/√Km
Macro Bending Loss	1 turn ø 20 mm	1550 nm ≤ 0.50 dB

		1625 nm \leq 1.5 dB
	10 turns ϕ 30mm	1310 nm \leq 0.05dB
		1550 nm \leq 0.30 dB
	100 turn ϕ 50 mm	1625 nm \leq 0.01 dB
Cladding Diameter		125.0 \pm 0.7 μ m
Cladding Non-circularity		\leq 0.7%
Coating Diameter		250 \pm 5 μ m
Core Concentricity Error		\leq 0.5 μ m
Coating – Cladding Concentricity Error		\leq 12 μ m
Fibre Curl Radius		\geq 4m
Mode Field Diameter	@1310nm	9.2 μ m
Point discontinuity		\leq 0.05 dB
Proof Stress Level		\geq 100kpsi (0.69 Gpa)

Cable specifications

Features		Values
Weight (kg/km)	2-6 core	3.5 \pm 1.0
	8-12 core	4.0 \pm 1.0
	24-core	6.5 \pm 1.0
Outer sheath	Material	NYLON12
Tensile performance (N)		200N
Crush (N/100mm)		1000N/10cm
Minimum allowable bending radius	Static	10*cable outer diameter
	Dynamic	20*cable outer diameter
Temperature	Transportation and storage	-20°C to +70°C
	Installation	-30°C to +70°C
	Operation	-30°C to +70°C

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.

Standards

Applicable standard	Subject
ITU-T G.657A2	Characteristics of a bending loss insensitive single-mode optical fiber
ANSI/TIA/EIA 598-C	Optical Fibre Cable Colour Coding
IEC 60794-1-1:2017	Optical fibre cables - Part 1-1: Generic specification - General
IEC 60794-1-2:2017	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance
IEC 60794-3:2014	Optical fibre cables - Part 3: Outdoor cables - Sectional specification
IEC 60794-5:2014	Optical fibre cables - Part 5: Sectional specification - Microduct cabling for installation by blowing
GR-20:1998	Generic Requirements for Optical Fiber and Optical Fiber Cable
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.

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Part Number Table

Part Number	Description
208-790	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 2 Core 2.0mm Fca Orange
208-791	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 4 Core 2.0mm Fca Orange
208-792	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 6 Core 2.0mm Fca Orange
208-793	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 8 Core 2.1mm Fca Orange
208-794	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 12 Core 2.1mm Fca Orange
208-795	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 24 Core 2.6mm Fca Orange

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



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