



☒ Bend insensitive

☒ Available in 4, 8 & 12-fibre bundles

☒ TIA-598-C Colour coded

☒ Gel free Dielectric design

☒ Coated for improving blowing performance

☒ 25 Year system warranty

Product Overview

Enbeam OM4 Multimode Blown Fibre EPFU Cable Loose Tube 8 Fibre 50/125 Yellow, part of a huge range of OM4 fibre optic cables fully stocked at Mayflex.

Enbeam Enhanced Performance Fibre Units (EPFU) are designed specifically for blown-fibre applications and are optimised for installation within our range of blown-fibre tubes.

The fibres are contained within a soft acrylate layer which cushions the fibres. This layer is coated with a hard layer for strength and finally a low-friction coating to ensure low drag and maximise blowing distances within the tubes.

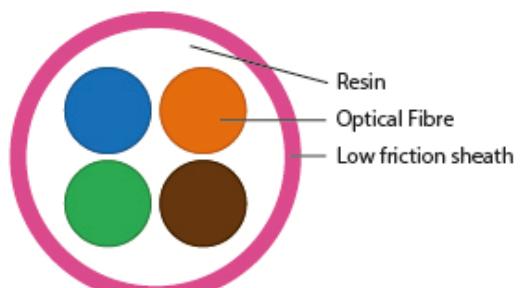
The acrylate coatings are easy to remove to expose the 250-micron primary-coated fibres for quick splicing.

The fibres are colour-coded according to TIA-598-C.

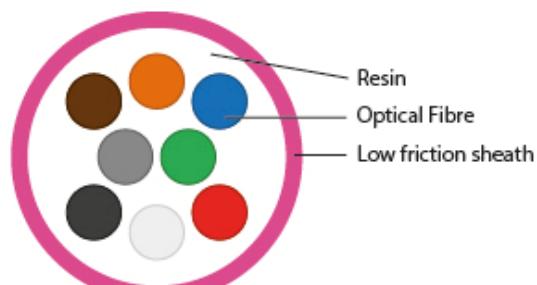
Product Specifications

Feature	Values
Number of Cores	8
Number of fibres per tube	8
Fibre type	Multi mode 50/125
Category	OM4
Outer sheath colour	Yellow
Outer diameter approx.	1.5 mm
Blown system	yes

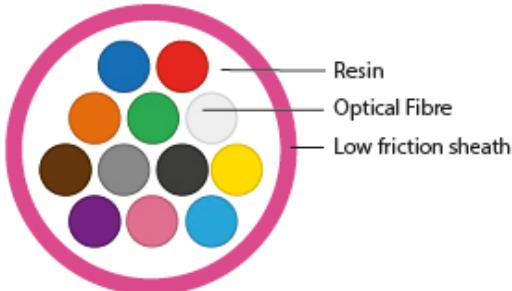
Product drawing



4
Fibre Units



8
Fibre Units



12
Fibre Units

Cable specifications

Features		Values
Weight (kg/km)	4 Fibres	1.0 ± 0.3
	8 Fibres	1.8 ± 0.3
	12 Fibres	2.0 ± 0.3
Tensile performance (N)	Short term	1*G
	Long term	0.3*G
Crush (N/100mm)	Short term	100
	Long term	50

Blowing test equipment	PLUMETTAZ: UltimaZ™	
Standard duct	5.0/3.5mm	
Pressure	12 bar	
Typical blowing distance	4 Fibres	1000m
	8 Fibres	1000m
	12 Fibres	800m
Typical blowing time	4 Fibres	35 min
	8 Fibres	35 min
	12 Fibres	30 min
Temperature	Transportation and storage	-40°C to +70°C
	Installation	-5°C to +50°C
	Operation	-20°C to +70°C

Fibre specifications

Features	Values
Attenuation (before cabling)	≤2.30 dB/km @850nm ≤0.60 dB/km @1300nm
Attenuation (after cabling)	≤3.50 dB/km @850nm ≤1.50 dB/km @1300nm
Overfilled Modal Bandwidth	≥3500 (MHz·km) @850nm ≥500 (MHz·km) @1300nm
Effective Modal Bandwidth	≥4700 (MHz·km) @850nm
Numerical Aperture	0.200 ± 0.015 NA
Group Index of Refraction (typical)	1.482 @850nm 1.477 @1300nm
Cladding Diameter	125.0±1.0µm
Cladding Non-circularity	≤1.0%
Core diameter	50 ± 2.5µm
Core non-circularity	≤5.0%
Core - Cladding Concentricity Error	≤1.0µm
Coating Diameter	245±7µm

Coating Non-circularity	$\leq 6\%$	
Coating - Cladding Concentricity Error	$\leq 10\mu\text{m}$	
Zero Dispersion Wavelength, λ_0	1295-1340nm	
Zero Dispersion Slope	1295nm to 1310nm	≤ 0.105
	1300nm to 1320nm	0.000375 (1590- λ_0)
Macro Bending Loss	100 turns, 30mm radius	$\leq 0.5\text{dB}@850\text{nm}$
		$\leq 0.5\text{dB}@1300\text{nm}$

Colour coding (as per TIA-598-C)



Standards

Applicable standard	Subject
ITU-T G.651.1:2018	Characteristics of a 50/125 μm multimode graded index optical fibre cable for the optical access network
ANSI/TIA/EIA 598-C	Optical Fibre Cable Colour Coding
IEC 60794-1-2:2017	Optical fibre cables - Part 1-2: Generic specification - Basic optical cable test procedures - General guidance
IEC 60068-2-38:2009	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test
IEC 60794-5:2014	Optical fibre cables - Part 5: Sectional specification - Microduct cabling for installation by blowing
IEC 60794-5-10:2014	Optical fibre cables - Part 5-10: Family specification - Outdoor microduct optical fibre cables, microducts and protected microducts for installation by blowing
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
208-819	Excel Enbeam OM4 Multimode Blown Fibre EPFU Loose Tube 12 Fibre 50/125 Yellow
208-822	Excel Enbeam OM4 Multimode Blown Fibre EPFU Loose Tube 4 Fibre 50/125 Yellow
208-823	Excel Enbeam OM4 Multimode Blown Fibre EPFU Loose Tube 8 Fibre 50/125 Yellow

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.