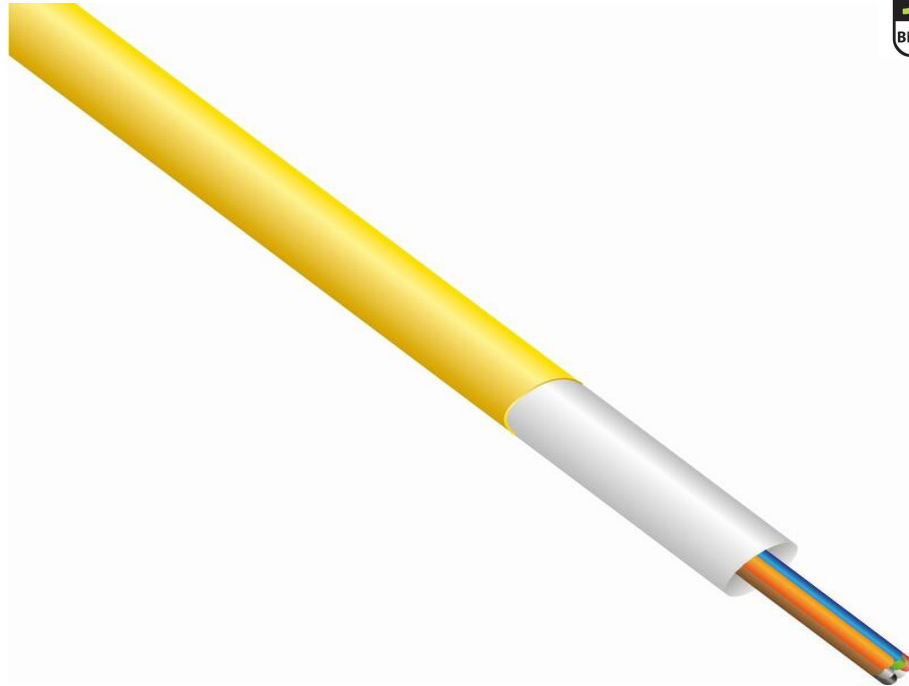


Excel Enbeam OM3 Multimode Blown Fibre EPFU 8 Fibre 50/125

excel
without compromise.

Part Code: 208-817

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Main Features

- / Available in OM3/OM4/OS2
- / TIA-598-C Colour coded
- / Available in 4, 8 & 12-fibre bundles
- / Bend Insensitive Fibres
- / 25 Year system warranty
- / Easy strip

Product Overview

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.

The fibre units are available in OM3, OM4 and OS2.

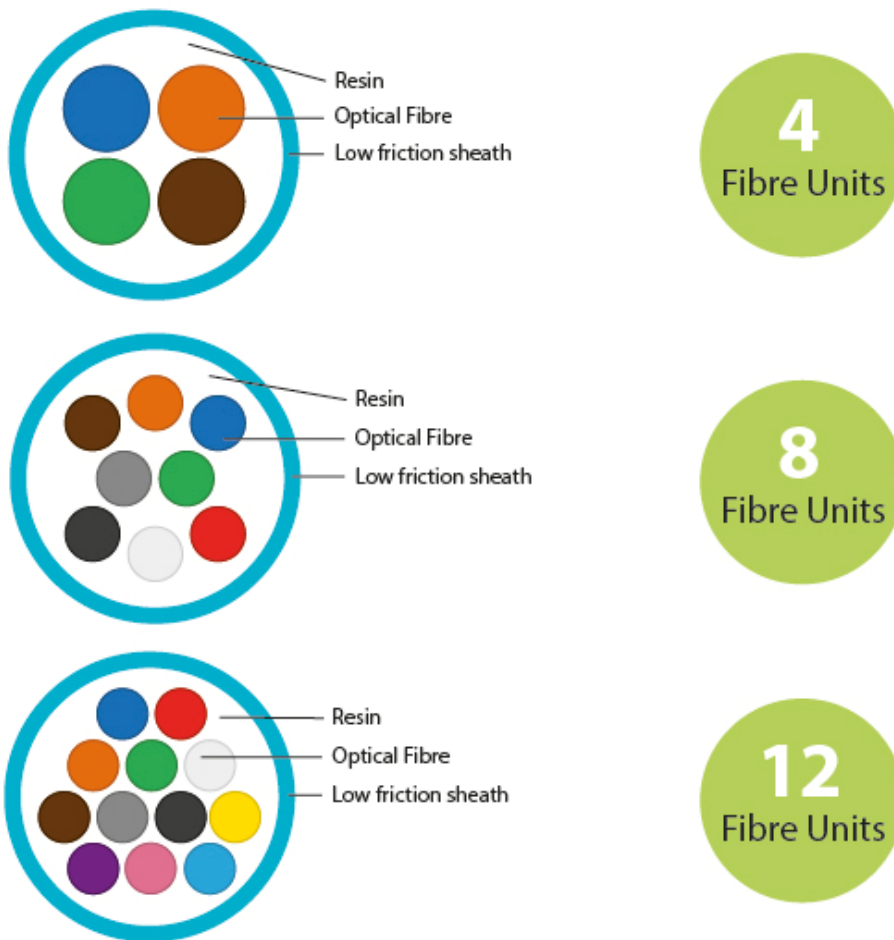
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Product Specifications

Feature	Values
Number of Cores	8
Fibre type	Multi mode 50/125
Category	OM3
Outer sheath colour	Yellow
Outer diameter approx.	1.5 mm
Blown system	yes

Product drawing



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

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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)	@850nm	≤2.30 dB/km
	@1300nm	≤0.60 dB/km
Attenuation (after cabling)	@850nm	≤3.50 dB/km
	@1300nm	≤1.50 dB/km

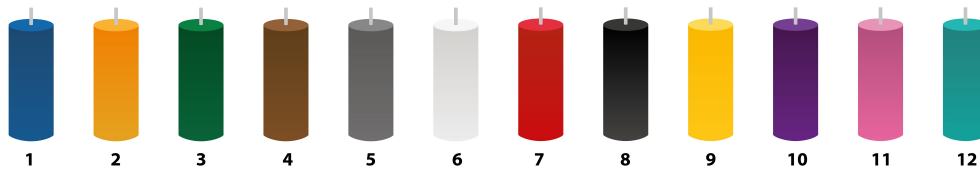
Excel Enbeam OM3 Multimode Blown Fibre EPFU 8 Fibre 50/125

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Overfilled Modal Bandwidth	@850nm	≥ 1500 (MHz·km)
	@1300nm	≥ 500 (MHz·km)
Effective Modal Bandwidth	@850nm	≥ 2000 (MHz·km)
Numerical Aperture		0.200 ± 0.015 NA
Group Index of Refraction (typical)	@850nm	1.482
	@1300nm	1.477
Cladding Diameter		125.0 ± 1.0 μm
Cladding Non-circularity		≤ 1.0%
Core diameter		50 ± 2.5 μm
Core non-circularity		≤ 5.0%
Core – Cladding Concentricity Error		≤ 1.0 μm
Primary Coating Diameter		245 ± 7 μm
Primary Coating Non-circularity		≤ 6%
Primary Coating – Cladding Concentricity Error		≤ 10 μm
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	≤ 0.5dB@850nm
		≤ 0.5dB@1300nm

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
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states).
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant.
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article

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33(1). Submission obligations met under EU REACH and UK REACH.

Regulation (EU) 2019/1021 (POPs)

EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).

UK SI 2012 No. 3032

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

Part Code Table

Part Code	Description
208-816	Excel Enbeam OM3 Multimode Blown Fibre EPFU 4 Fibre 50/125
208-817	Excel Enbeam OM3 Multimode Blown Fibre EPFU 8 Fibre 50/125
208-818	Excel Enbeam OM3 Multimode Blown Fibre EPFU 12 Fibre 50/125