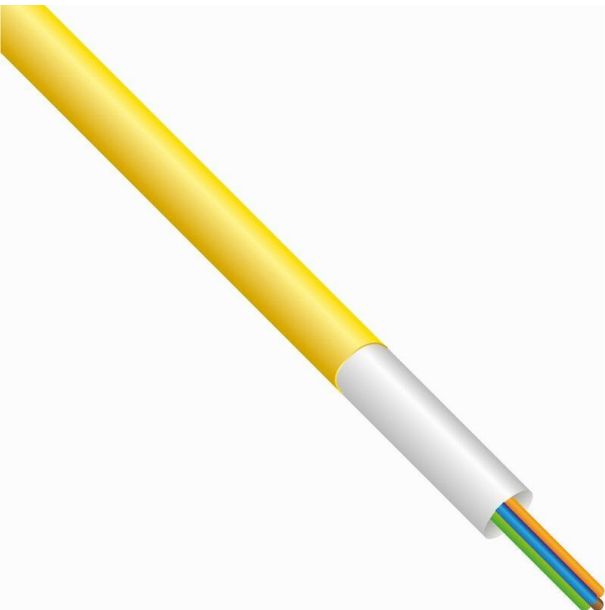


Excel Enbeam OM3 Multimode Blown Fibre EPFU 4 Fibre 50/125

Item Code: 208-816



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

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.

Product Specifications

| Feature | Values |
|------------------------|-------------------|
| Number of Cores | 4 |
| Fibre type | Multi mode 50/125 |
| Category | OM3 |
| Outer sheath colour | Yellow |
| Outer diameter approx. | 1.15 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 |
| Tensile performance (N) | Short term | 1*G |
| | Long term | 0.3*G |
| Crush (N/100mm) | Short term | 100 |
| | Long term | 50 |

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| | | |
|--------------------------|----------------------------|---------------------|
| 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 |
| 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±1.0µm |
| Cladding Non-circularity | | ≤1.0% |
| Core diameter | | 50 ± 2.5µm |
| Core non-circularity | | ≤5.0% |
| Core – Cladding Concentricity Error | | ≤1.0µm |
| Primary Coating Diameter | | 245±7µm |

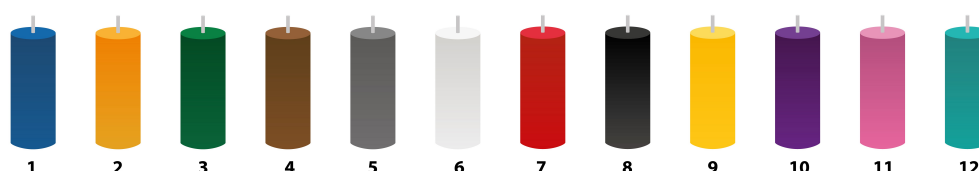
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| | | |
|--|------------------------|---------------------------------|
| Primary Coating Non-circularity | | ≤6% |
| Primary Coating - Cladding Concentricity Error | | ≤10μm |
| Zero Dispersion Wavelength, λ ₀ | | 1295-1340nm |
| Zero Dispersion Slope | 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 |
| 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 |

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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 |
|-------------|---|
| 208-816 | 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 |

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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