

# CityFibre Dark Fibre

**CityFibre Dark Fibre connects two sites within a city where you provide your own active equipment.**

## What you need to know:

Dark fibre is a one or two glass strands through which you shine light but unlike copper, it is not affected by floods, nor is its route dictated by exchange locations.

We're committed to using our commercial flexibility to ensure the very best Dark Fibre market prices wherever possible. We also enable you to consume 'local access' equivalent Dark Fibre connections without the expense of unbundling exchanges.

We provide full visibility of routing before you order, as well as light loss estimates at the planning stage and all the testing and handover information you'd expect from an established Dark Fibre provider.

Delivery is to a 1U LC/APC patch panel, with the option of a wall mounted termination point as an alternative.

G657.A1 fibre type is used for new deployments,\* with increased flexibility for installation in tight corners of buildings.

## Key Features

- Growing availability in UK cities.
- Delivery typically in 65 working days.
- Comprehensive 100% SLA
- 6 business hour return to service guarantee
- 24/7 UK support
- Can run up to 40Km in length

## What about Fibre Tax?

**Fibre Tax refers to the non - domestic business rates applicable to the use of services delivered over fibre. It recognises fibre infrastructure as commercial property, through which data traffic flows.**

**Fibre Tax is defined by the Government's Valuations Office Agency (VOA) or the Scottish Assessors Association (SAA) – who produce the tax assessment for their respective geographies and billed by local authorities in the same way as business rates for commercial property such as shops, offices etc.**

**CityFibre's Dark Fibre has a flat rateable value of £100 per annum per single fibre or fibre pair - irrespective of distance - until the next revaluation in April 2022.**

**We issue invoices separately from rental so the process is completely transparent.**

## G657.A1 FIBRE SPECIFICATION

### Fibre Attributes

Attribute	Detail	Value
<b>Mode Field Diameter</b>	Wavelength Range of normal values Tolerance	1310 nm 8.6-9.2 $\mu\text{m}$ $\pm 0.4 \mu\text{m}$
<b>Cladding Diameter</b>	Nominal Tolerance	125.0 $\mu\text{m}$ $\pm 0.7 \mu\text{m}$
<b>Core concentricity error</b>	Maximum	0.5 $\mu\text{m}$
<b>Cladding non-circularity</b>	Maximum	1.0%
<b>Macrobend loss</b>	Radius	15 mm
	Number of turns	10
	Maximum at 1625nm	1.0 dB
<b>Proof stress</b>	Radius	10 mm
	Number of turns	1
	Maximum at 1625nm	1.5dB
<b>Chromatic dispersion coefficient</b>	$\lambda$ 0min	1300 nm
	$\lambda$ 0max	1324 nm
	S0max	0.092 ps/(nm <sup>2</sup> x km)

### Cable Attributes

Attribute	Detail	Value
<b>Mode field coefficient</b>	Max from 1310 nm to 1625 nm	0.4 dB/km
	Max at 1383 nm $\pm 3$ nm	0.4 dB/km
	Max at 1530 - 1565 nm	0.3 dB/km
<b>PMD Coefficient</b>	M	20 cables
	Q	0.01%
	Maximum PMDQ	0.20 ps/ $\sqrt{\text{km}}$

\*There is still G.652 fibre in some locations - we cannot predict or agree which will be provided. There is no option to specify fibre types at the point of order, as we use whatever is deployed within the network for any given route. Single fibre working is available on request.

[wholesale.cityfibre.com](https://wholesale.cityfibre.com)  
0330 100 3550

Contact us for more information about our products, or to discuss becoming a partner.

Information provided in this document is subject to change. All services are provided subject to our contractual terms and conditions. © CityFibre Limited. Registered office: 15 Bedford Street, London, WC2E 9HE, England. Company no. 03274237.