

## Dark Fibre and Wavelength Services

**IDE Group's network is constructed with resilient dark fibre and wavelength services, as this provides the correct level of control, capacity and scalability required by a modern connectivity carrier.**

We utilise DWDM equipment and high specification fibre cable combined with excellent quality optics to allow us to deploy up to 80 wavelengths per link and the potential for up to 100Gbps per wavelength, so the ultimate capacity is staggeringly large.

This core competency allows IDE Group to plan, deliver and manage very high performance Dark Fibre and Wavelength services directly to our customers, where this requirement exists. We have agreements in place with both Metro, National and International fibre operators, allowing us to provide solutions which span each of these different categories, matching the correct delivery partner to the specific bespoke customer need.

### **What is Dark Fibre and what can IDE Group offer?**

Dark Fibre simply refers to a fibre optic cable which has been deployed, normally buried under the ground or sea, but which has not yet been commissioned, termed 'lighting' the fibre. Naturally digging cable routes across cities, countries and even continents is a costly, time consuming and disruptive task, thus, fibre optic cables are deployed in bundles, tens even hundreds of fibre optic cables, encapsulated in a single trunk and buried under ground at the same time. This potential capacity only becomes useful, when a carrier installs suitable equipment and establishes the correct connections to create an end to end service.

By leveraging the agreements that we have in place with dark fibre providers, IDE Group can quickly and effectively plan and deliver new circuits for our customers. We work with the providers to offer 'tail' circuits, short additional fibre runs between the nearest fibre PoP and a specific customer location, thus extending the reach of the already deployed fibre.

We also have agreements in place with companies specialising in digging entirely new fibre routes where required and experience of working with planning departments and infrastructure teams.

IDE Group typically delivers managed services such as Ethernet, but we recognise that Service Providers and Carriers still require dark fibre and in many circumstances will consume this as an unmanaged service.

We work with our partners to piece together different networks, providing an optimum solution, this totally open approach allows us to select the best possible solution for each project, rather than limited by exclusive vendor agreements.

Visit our website [idegroup.com](http://idegroup.com)

Or call **0344 874 1000** to discuss your requirements

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## IDE Group's Layer 1 Wavelength services

IDE Group has a great deal of experience delivering Wavelength services to customers, our network is deployed utilising Dark Fibre links which we 'light' using DWDM providing us up to 80 wavelengths on each fibre between locations. Wave lengths, (or waves), are generally used by ISP's or Carriers who want to run and control their own networks, since it requires a high level of technical knowledge to fully utilise this services.

IDE Group can provide wavelengths between any locations on our network, some routes are supported natively between adjacent locations, whereas others require additional planning to mitigate the loss of light levels on some longer links, this is established during initial planning.

In addition to waves deployed on the network, IDE Group can also facilitate waves on third party providers networks, ensuring that they are correctly, planned, deployed and managed as a service. In this case, waves can span much greater distances, including International circuits, transatlantic links and global backbone networks. Wave services are normally offered as 1G, 10G, 40G and 100G Interconnect products.

### About the IDE Group Network

Our latest high performance MPLS network, constructed with privately owned dark fibre and spanning PoPs across the UK, delivers the highest capacity to the widest range of data centre locations within industry-leading timescales.

Our network utilises DWDM technology to maximise the capacity of our dark fibre links, this allows us to deliver MPLS/VPLS services at speeds of 1Gb/10Gb and 40Gb to all of our On-Net locations. This network has been delivered in response to the market demand from carriers, data centre operators, ISPs, media companies and many other end user clients. IDE Group recognises that traditional networks offering 100Mb and 1Gb circuits are no longer suitable and there is a clear desire and need for 10Gb as a standard, with a straightforward upgrade path to 40Gb and 100Gb.

Our network is the core transmission network deployed between key IDE Group points of presence, typically leading data centres across the UK, which provides the solution to this demand. Designed and built using industry leading performance switching and routing equipment, it allows IDE Group to deliver new services to lit sites in hours and days rather than weeks and months. All services are available at all locations as it is a truly any-to-any network, meaning that all partner ISPs, telecoms operators and other service provider interconnects can be delivered in ALL of the network PoP locations.

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