

# FIBRE OPTIC CABLING

**TCS** have **expert engineers** fully-trained in the provision and installation of **fibre optic cabling**.

A **fibre optic cable** carries **light pulses** instead of electrical ones to transmit information, which means the **bandwidth** is much higher than traditional electrical systems. Fibre cables now support much of the world's **internet, cable TV, and phone systems**.

***The 3 most common types of fibre optic cable are:***

- Single-Mode

Single mode fibres have a smaller core diameter which only allows a single pathway of light to travel. They're often used in long-length network connections which make them slightly more expensive than other types of fibre cabling.

- Multi-Mode

As the name suggests, multi-mode cabling has a larger core diameter than that of the single-mode cable. Several pathways and wavelengths of light can be transmitted. It is used commonly in short distance installations, such as patch cable applications.

- Plastic Optical Fibre (POF)

POF is a large core optical fibre which enables it to couple light from sources and connectors that don't need to be high precision.

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POF is generally more durable and can be easily and quickly installed by our TCS engineers. The cost of POF is more competitive which makes it a good option for desktop LAN connections and low speed short links.

## Pros of Fibre Optics

- Greater bandwidth/Faster speeds
- Cost efficient
- Thinner and lightweight
- Long life cycle

## Cons of Fibre Optics

- More fragile
- Doesn't work with mobile communication
- Limited to lower power

**For more information on fibre optic cabling for your business, our team of networking professionals are always on hand to offer support and advice**

**Contact them on [sales@totalcontracting.co.uk](mailto:sales@totalcontracting.co.uk)**

**Call at 01642 610728**