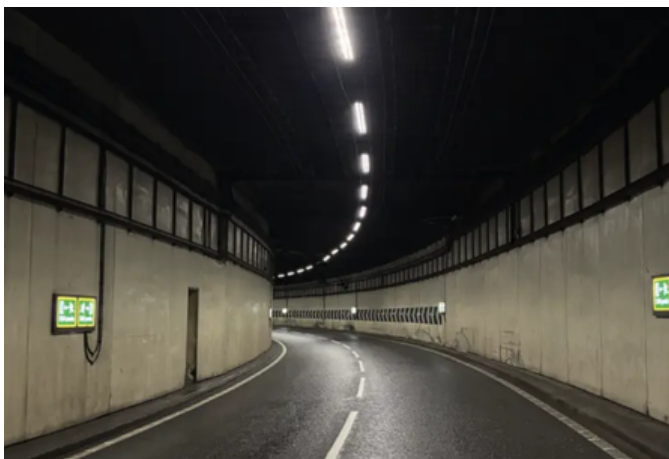


Case Study

P&D was commissioned to install, terminate, and test a fibre optic network within the eastbound and westbound bores of the Limehouse Link Tunnels as part of a critical fire alarm system upgrade.

Delivering works inside a live road tunnel environment introduced a number of operational and safety challenges, including restricted access windows, strict compliance requirements, and the need to work within confined spaces alongside existing tunnel infrastructure. The installation also needed to meet the high reliability standards expected of life safety systems, where performance and resilience are paramount.

P&D deployed specialist fibre engineers to install, terminate, and fully test the fibre optic backbone for the fire alarm system. The solution ensured fast, secure communication between fire detection components across both tunnel bores.



Works were carefully planned and phased to align with operational constraints and minimise disruption to tunnel users. A safety-led approach, combined with rigorous testing and stakeholder coordination, ensured efficient and compliant delivery.

The project delivered a robust and fully certified fibre network that enhances the performance and reliability of the tunnel's fire alarm system. The installation was completed safely, on programme, and with minimal impact on live tunnel operations.

This project highlights **P&D's** expertise in delivering fibre infrastructure for critical life safety systems in complex, live environments. Their structured, safety-first approach ensures dependable performance in high-risk infrastructure settings.





Key Facts:

- **Live tunnel delivery** – minimal disruption to road users.
- **Restricted access window** – phased around operational constraints.
- **Fully tested fibre backbone** – fast, secure fire detection communication.
- **Dual bore coverage** – eastbound and westbound delivered together.



Limehouse link tunnels

Fibre works delivered across eastbound and westbound bores.



Fibre optic network

Installed, terminated and fully tested.



Fire alarm upgrade

Critical life safety system enhancement.



Live tunnel environment

Confined space, restricted access working.