

Tunnel Cabling

Provision of an innovative cable in duct solution for fibre optic links through a water main.



ITM Communications is an independent specialist provider of cost effective and energy efficient Industrial Network solutions to the Manufacturing, Oil & Gas, Water Treatment, Power Generation, Construction and Systems Integrator markets in the UK, Europe and Middle East.

The linking of control rooms for tunnel installations, such as water mains, that run through built-up areas has not always been easy to achieve overland, the ideal solution is to install cables inside the tunnel. The requirement for this project was a continuous 5.2km fibre optic link to be installed through the water main between control rooms. When asked to provide a solution for the installation of two singlemode fibre cable links ITM proposed that the cable be pre-installed in a mini-duct. The unique and innovative approach of pre-installation provided continuous un-jointed links of up to 5.4km and thus ensured link integrity, watertightness and ease of installation.

ITM has completed several projects of this nature across multiple sites and provided the following services;

- Assistance in gaining necessary approvals to Cable-in-Duct
- Supply of Cable-in-Duct
- Site cable testing and duct pressure testing
- Cable termination and testing

End User: Water Utility Company

System: Entelle

Duration: Site support spread over several months

Value: £100,000.00