

Buried Cable Routes

A low cost, safe and environmentally-friendly way to bury trackside cables



Cubis' Buried Cable Routes system is a Network Rail-approved product used to bury trackside cables.

Power, telecommunications and signalling cables are carried in MULTIduct™ units, which join together to form long duct runs (100m typically).

MULTIduct™, available in 4, 6 and 9-way options, is much stronger than conventional ducting. It does not require a concrete surround or an expansive trench, resulting in cheaper installations. MULTIduct™ interfaces with STAKKAbOX™ ULTIMA, a sectional, structural preformed access chamber.

Cubis' Buried Cable Route system is quickly installed due to its light weight (all parts are below 25kg), lack of specialist equipment and reduced excavation. Installation on one track upgrade was averaging 1km in a 20 hour possession.

Most importantly, where the system has been used (primarily locations where cable theft has been a recurring problem), there have been no successful attempts at theft or vandalism of the cables.

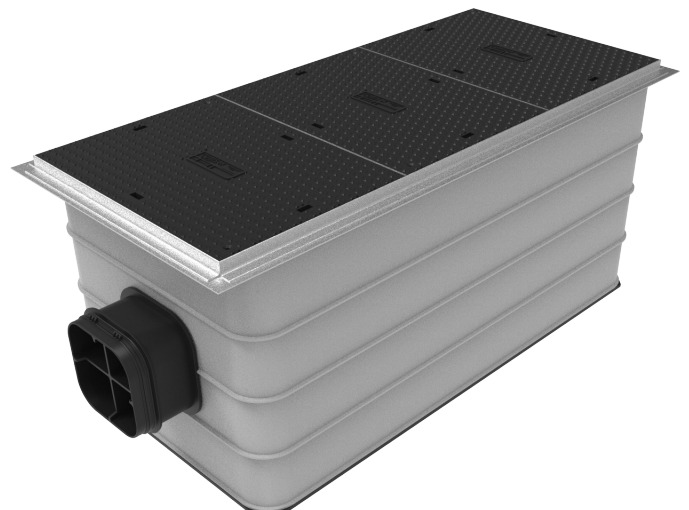
At a glance

- Enhanced security
- Rapid installation
- Very strong - no concrete surround required
- Reduced installation costs against other methods
- Makes use of recycled materials
- Future-proof networks
- Easier to pull cables through than twinwall duct

Approved by:



Certificate #: PA05/635



Product Advantages



Enhanced security

Where MULTIduct™ has been used to bury cables (primarily high-risk areas) there have been no successful attempts to break into the system.



Rapid installation

All you have to do is dig, connect the units and cover with ballast. Installed runs of 1km in a 20hr possession were recorded on one project.



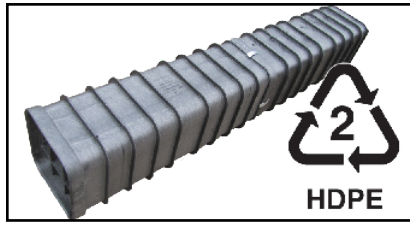
High crush strength

MULTIduct™ is significantly stronger than other ducts, meaning it can be buried shallower and without a concrete surround. ULTIMA can be installed in close proximity to the track.



Reduced installation costs

Finished-install costs are around 20% cheaper than twinwall ducting, per 100m.



Uses recycled material

MULTIduct™ is manufactured using 70% recycled plastic. All parts are recyclable.



Future-proofed Networks

Additional cabling can be carried out using one of the free spaces without extensive excavation, if required.

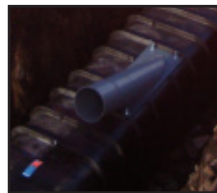
Flexibility on site and in design



ULTIMA sections
Access chamber depth can be altered in increments of 150mm by adding sections.



Duct Entries
ULTIMA can be easily drilled on-site with standard tools to create duct entries.



Break Outs
It is easy to bring a cable out of a duct run using bolt-on break out adapters.



Mitres
Units can be fabricated with bends to allow for gradual changes in the direction of the track.



Adapters
Interface with a single duct or connect to flexible ducting to overcome 90° bends.

Product Details:

Product Makeup

MULTIduct™ 4, 6, 9 way	High Density Polyethylene
Access Chamber: STAKKAbOX™ ULTIMA	Glass Reinforced Polyester Resin
Access Chamber: AX-S™ Composite or AX-S™ Concrete-Infill Galvanised Steel Frame	Glass Reinforced Polyester Resin

[See Network Rail Product Ordering Sheet for further information]

Why Cubis?



MULTIduct™ is excellent for cable route installation and connection between UTX. The product is robust and adequately addresses the matter of cable theft which plagues the railway industry.

Additionally, the product has been excellent to install, with Network Rail saying the speed of installation has surpassed expectation. The product also lends itself well to later amendments which would not be as easy with UPVC ducts between turning chambers. I would recommend this product on any cable route project.



- CANDIECE HENRY, Design Engineer, Amey Rail