

MULTIduct™ Cable Protection





Innovative *and* Sustainable Infrastructure Solutions

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Cubis Systems redefines network access for modern infrastructure.

A sustainable manufacturing leader, we specialise in composite solutions for underground utilities. Our product portfolio includes network access chambers, covers, cable protection systems, and a range of construction accessories.

Importantly, these solutions are modular, scalable, and lightweight. All of which means that they can be built on-site with speed and ease.

With significant – and measurable – benefits across sustainability, safety, and resource-savings, our solutions are designed to tackle your infrastructure challenges head-on.

The *undisputed* #1 multiple duct system on the *market*

MULTIduct™ from Cubis Systems replaces traditional duct banks with a single structural unit.

On-site teams benefit from multiple ducts combined, simple assembly, and lightweight components for single-person handling.

The solution holds numerous global approvals and has been installed in various applications and environments across the world.

100%

Made in Britain & Ireland

25%

Increase in duct capacity

< 20kg

Across all parts





Engineered for *everywhere*

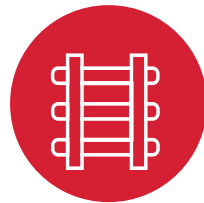
MULTIduct™ is engineered for everywhere. With PADS approval from Network Rail, it's the ideal solution for modern rail, station and tunnelling projects.

However, MULTIduct™ is far from limited to rail. Our solution is engineered to adapt to different sectors, environments, and installation challenges. While the applications vary, the performance doesn't.

Sectors



Energy



Rail & Light Rail



Highways



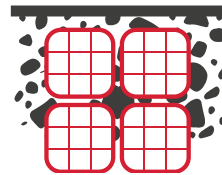
Telecoms

Applications

MULTIduct™ holds numerous global approvals and has been installed in various applications and environments across the world.



Tunnels



Multi-bank



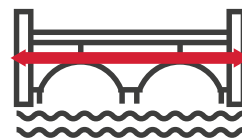
Buried cable routes



Water utility lines



Under track crossings



Bridge crossings



Under road crossings



Features and benefits

Narrower, shallow trenches

MULTIduct™ can be buried much shallower than conventional duct. The product offers high crush strength and robust composition that reduces traditional breakage risk.

Safely manually handled

Weighing under 20kg, MULTIduct™ offers significant health and safety advantages. It's suitable for single person installation, in compliance with manual handling regulations.

No specialist surround

Requires no concrete or specialist surround due to its high strength. Excavated material can be reused during re-installation — reducing time, cost and heavy plant.

Buried cable routes

In conjunction with STAKKAbOX™ chambers, MULTIduct™ offers a more secure ducting system than surface routes. This can prevent issues with theft and vandalism to cables.

Lightweight yet durable

MULTIduct™ is a durable, lightweight unit that is easy to transport, resists drop-related damage, and features large-radius corners to help prevent rodent access to cabling.

Added flexibility

MULTIduct™ allows for 2° of flexibility within its connection. This results in the creation of a natural bend that can follow the curvature of a track, road or tunnel installation.

Multiple ducts combined

Combines multiple (traditionally separated) cable ducts into one unit — making for an easier and more economical project with less civils work and less effort, in less time.

Lay flat straightness

MULTIduct™ lays straighter and flatter than traditional ducting. This lay-flat, run-straight design removes the need for spaces and eliminates twisting issues during installation.



Inside MULTIduct™ : *sustainable by design*

Robust, responsible materials

Manufactured from nitrogen-framed high density polyethylene (HDPE), MULTIduct™ offers a lightweight, high strength to weight unit. Additionally, this material is:

- UV stabilised (2% Carbon Black)
- Classed as non-hazardous to the environment
- Fully recyclable – commodity polymer (recycling symbol: 2)
- Produced from up to 100% recycled HDPE
- Chemically resistant and unaffected by sulphate ground conditions

Tested for long-term performance

Tested by accredited facilities, MULTIduct™ is built for long-term performance – helping minimise rework, material waste and whole-life impact. Data is available on request for:

- Multiple load tests: Crushing load, universally distributed, point load, tension load, lateral bending load between 2 MULTIduct™ units, bend adaptor, shear load
- Cable pulling
- MULTIduct™ grout pressure
- Torque tests
- Environmental impact, via third-party EPD

Low-impact infrastructure

MULTIduct™ is designed to reduce environmental impact across both manufacture and installation. It helps lower embodied carbon, reduce site activity and cut waste:

- Made using recycled and recyclable materials
- No concrete required, helping cut material use and waste and recyclable materials
- British and Irish manufacturing to help reduce transport emissions and embodied carbon
- Less excavation and spoil through a more efficient duct layout
- Reduced plant time and on-site emissions through faster installation

Made in Britain & Ireland

Like all proprietary Cubis Systems products, MULTIduct™ is certified Made in Britain and made in-house. That gives us direct oversight of the end-to-end process, and gives you:

- Faster delivery to site
- Reduced transport impact & lower embodied carbon
- Support for British manufacturing, jobs, and skills
- Robust testing and compliance with UK safety & quality laws
- End-to-end expertise behind your order and your project





MULTIduct™ vs *traditional* ducting

1. Easier cable pulling

MULTIduct™'s innovative duct design has a major impact on cable pulling – traditionally one of the most labour-intensive parts of the installation. Its square duct space with smooth internal walls offers:

- Reduced surface contact with cables during pulling and blowing
- Minimised friction along the cable route
- Eliminated sharp internal edges that could damage cables
- Increased usable capacity compared to traditional duct profiles

2. Superior crush strength

Traditional ducting still demands concrete surround due to its crush susceptibility. MULTIduct™ needs no such extra efforts.

- Manufactured using a structural foam moulding process
- Creates a high-strength, lightweight duct with exceptional crush resistance
- Does not require any concrete or specialist surround due to this high strength and robust nature
- Excavated material can be reused during re-installation – reducing time, cost and heavy plant

3. More cost-effective cable routes

With MULTIduct™, you're getting both a stronger duct and an efficient cable route that requires less digging, less material, and less effort to install.

- Reduced plant, transport, and material movements
- Faster, easier, and more efficient installation
- Greater durability and less waste on-site
- Greater confidence in long-term network protection

4. Less carbon-intensive

MULTIduct™ is the sustainable duct choice. Its use of modern materials that are lightweight, adjustable, and space-saving results in key practical and environmental benefits.

- Lower emissions via reduced lifting equipment and improved shipping efficiency
- Supports shallower excavation and reduces imported backfill materials
- Recycled and recyclable – limiting the use of virgin materials
- Backed by third-party verified Environmental Product Declarations

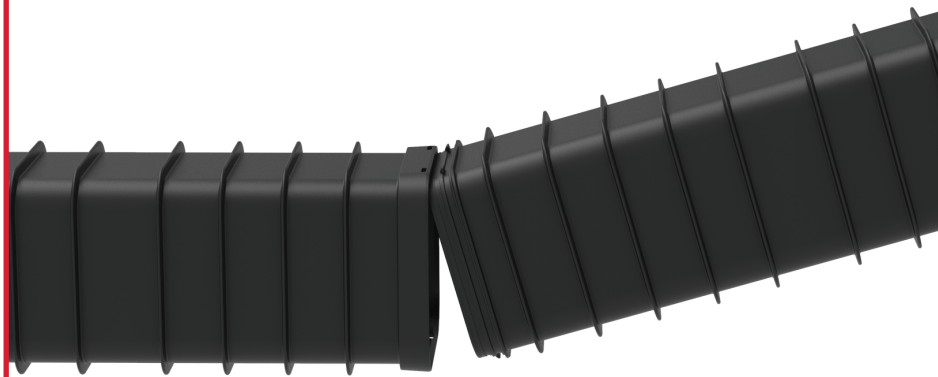
How it works

Enhanced cable management and access

- MULTIduct™ offers seamless integration with the Cubis Systems range of pit access products such as STAKKAbox™ ULTIMA Connect
- MULTIduct™ can be easily integrated into the desired STAKKAbox™ access chamber on site - using readily available tools
- Alternatively, for even faster installation, access chamber entry points can be pre-fitted to our STAKKAbox™ chambers at production
- We can also fit a socket or spigot end to make connection even simpler, and deliver to site as a single unit
- If the exact duct entry positions are unknown at the time of order, we can fit a flexible sliding backfill barrier
- This barrier allows for up to 150mm vertical alteration, enabling the MULTIduct™ entry position to be customised on-site

Quick one-click assembly

- MULTIduct™ units are quickly and easily assembled with an intuitive, deskilled installation method
- Connect nominal one (1) metre-long sections together via our unique 'push-fit' system
- Each MULTIduct™ unit has a socket and a spigot end
- To start, place a spigot into the socket end, lining up the push fit clip system
- Connect the two MULTIduct™ sections together until they click into place
- During cable pulling, the unique push-fit connection eliminates any disengagement of the units once installed





Size guide

MULTIduct™ is available in 4-way, 6-way, 9-way, and 4-way XL sizes – each engineered for different cable capacity and installation requirements.



4-way unit
L263mm x W263mm x D1116mm
Weight: 7.3kg

Duct space equivalent to 110mm single duct



6-way unit
L372mm x W265mm x D1116mm
Weight: 11kg

Duct space equivalent to 110mm single duct



9-way unit
L384mm x W384mm x D1116mm
Weight: 17.3kg

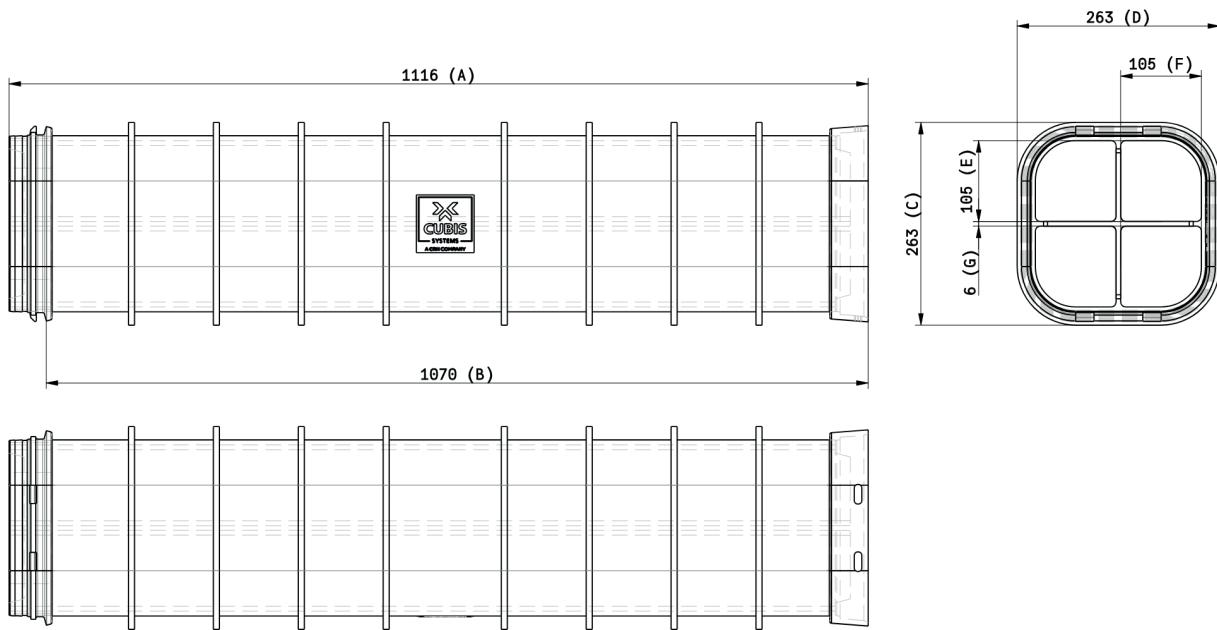
Duct space equivalent to 110mm single duct



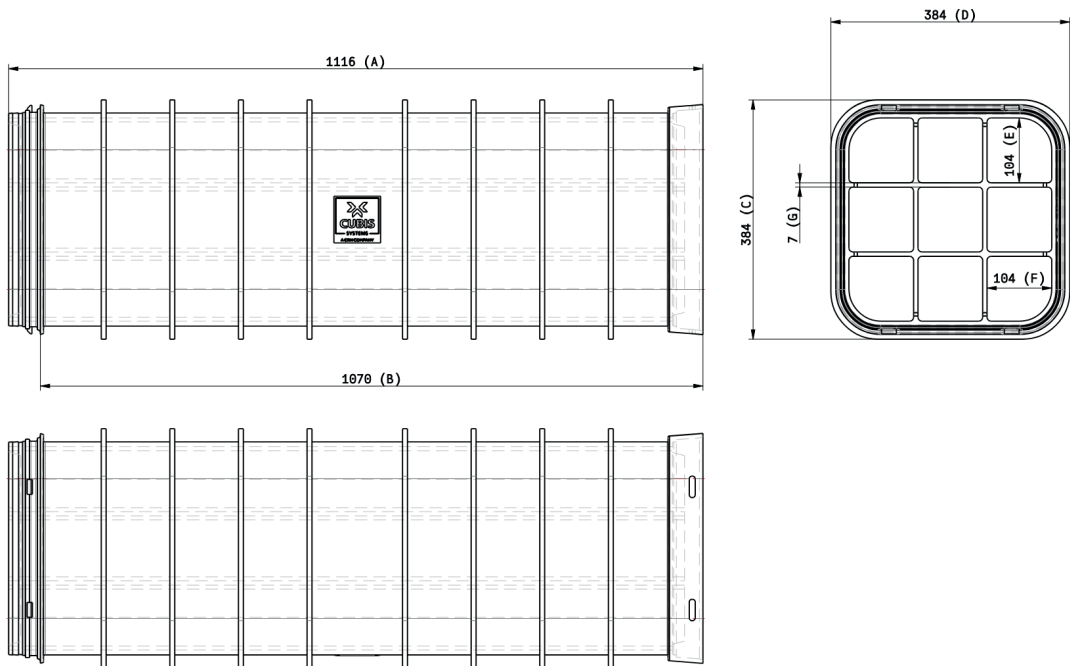
4-way XL unit
L384mm x W384mm x D1116mm
Weight: 16.3kg

Duct space equivalent to 160mm single duct

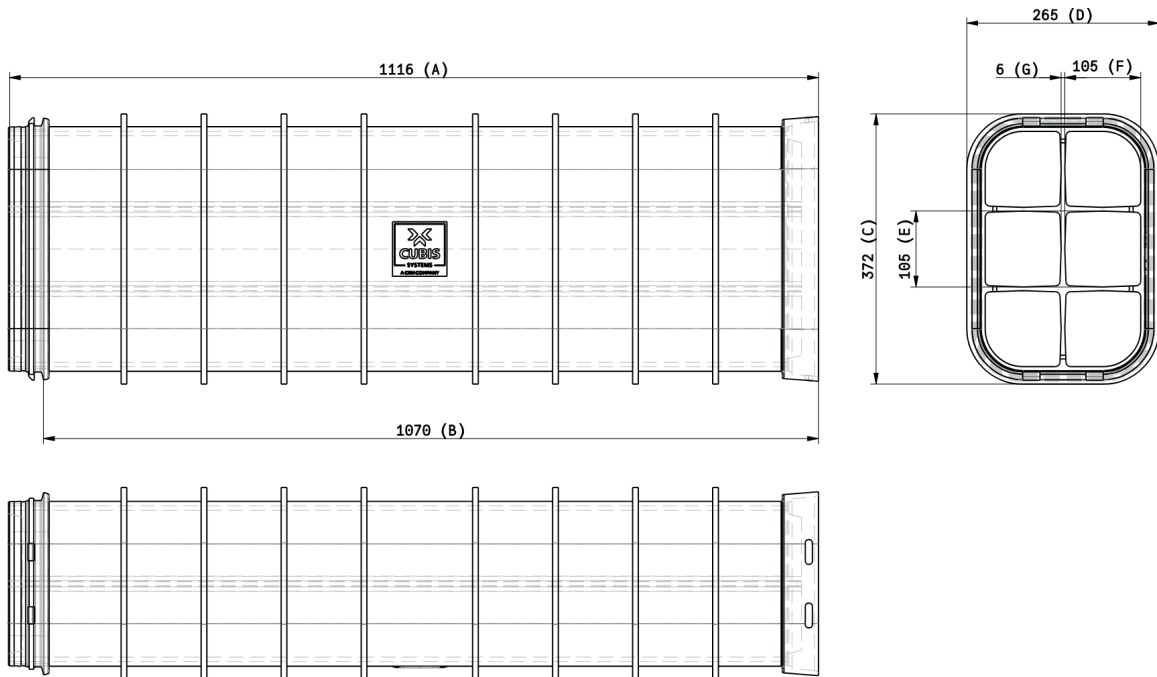
MULTIduct 4-way



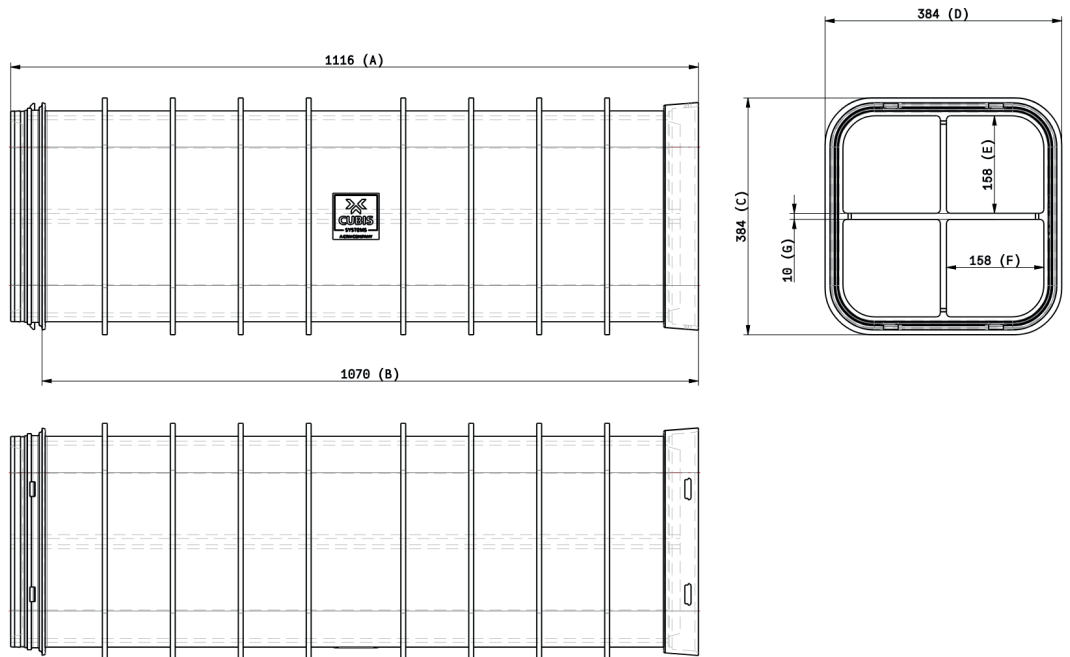
MULTIduct 9-way



MULTIduct 6-way



MULTIduct 4-way XL



Accessories

MULTIduct™ comes with a full range of accessories designed to handle your real-world installation scenarios.

Every component is engineered to work together to give you a complete cable management system designed for flexibility, performance, and ease of installation.

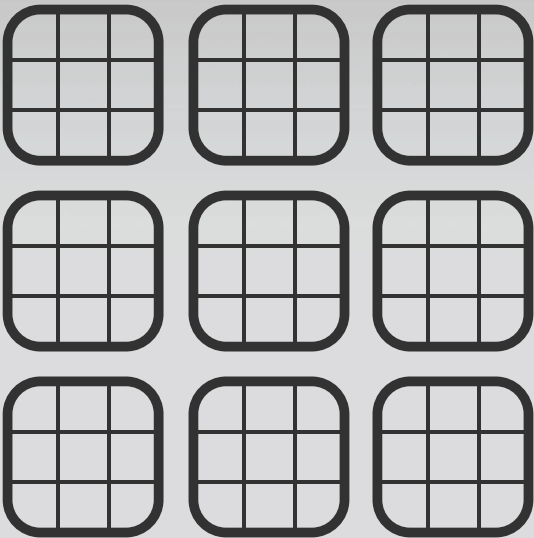
2 Degree of Flexibility:

MULTIduct™ allows for 2° of flexibility within its connection, this results in the creation of a natural bend that can follow the curvature of a track, road or tunnel installation.



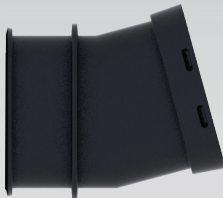
Multiple Banks:

Duct banks are quickly assembled by connecting meter long sections then stacking these one on top of each other. These individual units or multiples can be joined together in the trench to provide a multiple bank system. These multiple bank systems can be stacked as high as required.



Degree Mitres:

The MULTIduct™ mitres have been designed to assist in any curvature needed within specified linear routes. The unique push fit assembly of the mitre units can be adjusted to turn either right or left to accommodate the required meter bend radius.



4 Way Rubber Gasket

Diameter Ø: 222mm x D20mm
Weight: 0.06kg

4 Way XL Rubber Gasket

Diameter Ø: 335mm x D20mm
Weight: 0.09kg

6 Way Rubber Gasket

Diameter Ø: 280mm x D20mm
Weight: 0.07kg

9 Way Rubber Gasket

Diameter Ø: 335mm x D20mm
Weight: 0.09kg



Spring Clips*

L70mm x W25mm x D20mm
Weight: 0.01kg



3 Way Unit

L376mm x W125mm x D116mm
Weight: 6.8kg

Accessories

Sockets & spigots

- Use to join matching lengths of MULTIduct™
- Female to female (socket to socket) and male to male (spigot to spigot)



4-way double socket: L255mm x W255mm x D73mm
Weight: 0.87kg

4-way double spigot: L252mm x W252mm x D135mm
Weight: 0.75kg



6-way double socket: L363mm x W256mm x D125mm
Weight: 1.24kg

6-way double spigot: L360mm x W253mm x D135mm
Weight: 1.31kg



9-way double socket: L370mm x W370mm x D125mm
Weight: 1.77kg

9-way double spigot: L369mm x W369mm x D135mm
Weight: 2.02kg



4-way XL double socket: L370mm x W370mm x D125mm
Weight: 1.43kg

4-way double spigot: L369mm x W369mm x D135mm
Weight: 1.43kg

End caps

- Use to terminate male and female (socket and spigot) duct entry points
- Order pre-fitted for easier installation



4-way socket end cap: L255mm x W255mm x D73mm
Weight: 0.67kg

4-way spigot end cap: L252mm x W252mm x D78mm
Weight: 0.75kg



6-way socket end cap: L363mm x W256mm x D73mm
Weight:1.04kg

6-way spigot end cap: 360mm x W253mm x D78mm
Weight: 1.09kg



9-way socket end cap: L370mm x W370mm x D73mm
Weight: 1.61 kg

9-way spigot end cap: L369mm x W369mm x D78mm
Weight: 1.76kg



4-way XL socket end cap: L370mm x W370mm x D73mm
Weight: 1.34kg

4-way XL spigot end cap: L369mm x W369mm x D78mm
Weight: 1.35kg

Accessories

Duct adaptors

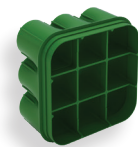
- Single-way adaptors to integrate easily with traditional ducting
- Use to adapt and split off into individual conduit runs



4-way single duct adapter: L250mm x W250mm x D200mm
Weight: 1.6kg



6-way single duct adapter: L365mm x W250mm x D200mm
Weight: 2.4kg



9-way single duct adapter: L375mm x W375mm x D200mm
Weight:3.3kg

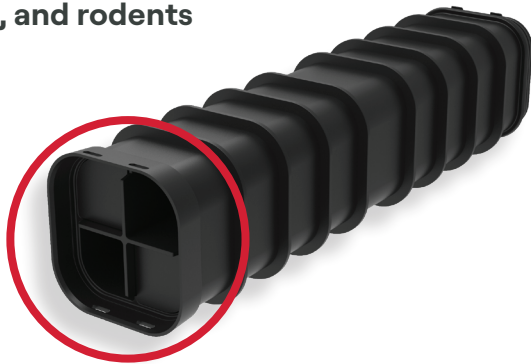


4-way XL single duct adapter: L368mm x W368mm x D213mm
Weight: 3.3kg

Duct plugs

- Square and corner plugs you can use to seal duct compartments
- Protect against sand, backfill, and rodents

L104 x W104x D50mm &
L158 x W158 x D50mm
Weight: 5g



Mitre joints

- Create curves beyond MULTIduct’s built-in 2° of movement
- Adjust to turn right or left to accommodate the meter bend radius



4-Way 15°, 300mm Laying Length,
4 x 110Ø Ducts, L300 x W263 x H263mm

4-Way 30°, 1000mm Laying Length,
4 x 110Ø Ducts, L1099 x W263 x H263mm

4-Way 45°, 300mm Laying Length,
4 x 110Ø Ducts, L300 x W263 x H263mm



6-Way 15°, 300mm Laying Length,
6 x 110Ø Ducts, L368 x W265 x H360mm

6-Way 30°, 300mm Laying Length,
6 x 110Ø Ducts, L300 x W360 x H265mm

6-Way 45°, 1000mm Laying Length,
6 x 110Ø Ducts, L1025 x W265 x H372mm



9-Way 15°, 300mm Laying Length,
9x 110Ø Ducts, L381 x W385 x H385mm

9-Way 30°, 1000mm Laying Length,
9 x 110Ø Ducts, L1208.5 x W385 x H385mm

9-Way 45°, 300mm Laying Length,
9 x 110Ø Ducts, L300 x W385 x H385mm



4-Way XL 45°, 1000mm Laying Length,
4 x 160Ø Ducts, L1169 x W385 x H385mm

System components

Specifying MULTIduct™ gives you access to our integrated systems approach, with compatible products engineered to integrate seamlessly across the network.

1 PROtrough

The UK's most flame-retardant non-cementitious trough. PROtrough offers a modern, sustainable, and regulation compliant alternative to traditional concrete troughs.

2 STAKKAbOX™ access chambers

Lightweight composite chambers engineered for faster installation, easy adaptability, and exceptional strength. Available in a variety of sizes and options.

3 Access covers

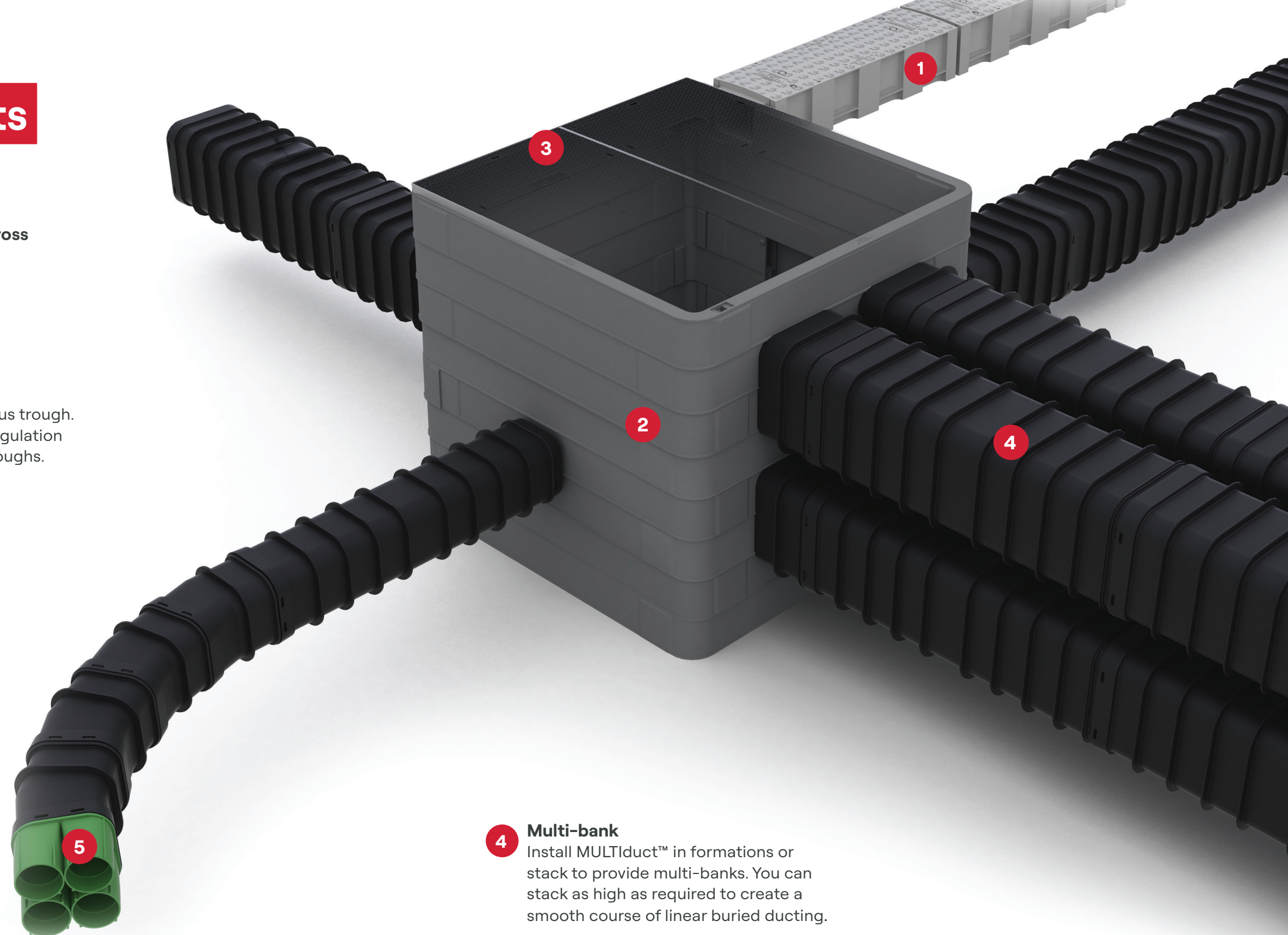
A complete range of high-performance access covers tailored from B125 up to F900 in multiple sizes, materials, and depths to suit your project needs.

4 Multi-bank

Install MULTIduct™ in formations or stack to provide multi-banks. You can stack as high as required to create a smooth course of linear buried ducting.

5 Chamber accessories

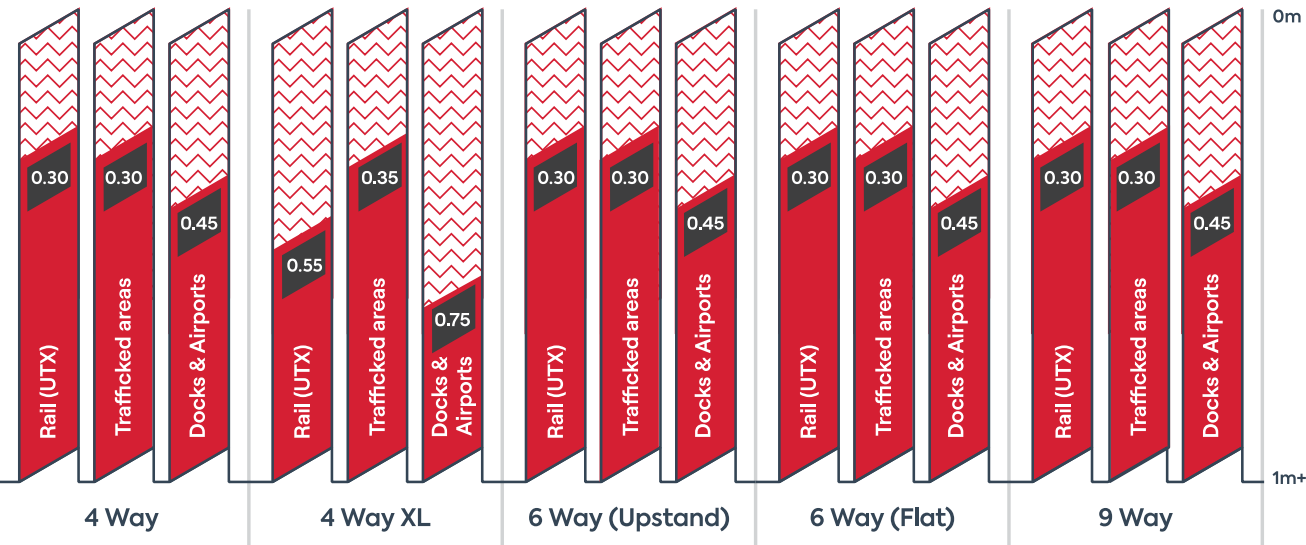
Our chamber accessories range includes steps, cable management, spigots, duct entries and pit bases – all allowing you to save more time and simplify installation.



Installation & use

Recommended burial depths

The table below outlines the recommended burial depths for each MULTIduct™ product across a range of applications. Contact the team for project-specific guidance.



MULTIduct™ has been designed to offer a number of cable routing solutions in varying locations and applications.

As a general overview, you can follow 6 simple steps to ensure the correct, ease, safe and speed of installation.

- 1 Dig trench
- 2 Lay base
- 3 Lay MULTIduct™ part and fit next part in
- 4 Backfill
- 5 Compact
- 6 Reinstate surface

*For detailed installation instructions, please refer to our MULTIduct™ installation manual.



Seamless specification

We're proud to be the only manufacturer in our space offering a free BIM tool. Using the BIM configurator doesn't just help you design smarter with our 3D models. It can also deliver you significant, and fully measurable, savings.

Features & Benefits:

-  Easily drop our 3D product models into your designs
-  Identify and resolve design conflicts early-on, saving time and resources
-  Access precise data for better budget planning and analysis
-  Download our CAD files in any number of formats
-  Customise your project specs for fast calculations and data validations
-  Work with our experts for custom sizes, quotes, and bespoke support
-  Deliver projects that are smarter, safer, and more sustainable
-  Ensure material optimisation and faster installation

“Our recent **MULTIduct™** design support helped a client save **£235k** on ducting and installation costs. That represented a **48% cost reduction** – driven by **optimising MULTIduct™** specification at the design stage.”

Project spotlight

Location: Netherlands

Solution: MULTIduct™ STAKKAbox™
ULTIMA Connect & composite covers

Highlight: Provided a lightweight, easy-to-transport system for difficult sand-based conditions on a remote MoD facility – reducing the risk of movement, damage, and cable route confusion associated with traditional ducting



Location: Lubień, Poland

Solution: 9-way MULTIduct™ and accessories

Highlight: Over 2,300 MULTIduct™ units used to distribute high and low voltage cables from a sub power station within a small excavation, without the traditional cable pulling and twisting issues



Location: Hampshire, UK

Solution: 4-way and 6-way MULTIduct™

Highlight: Created a flexible yet structural duct run that optimised available space, integrated seamlessly with our composite chambers, and enabled quick, easy installation through its unique push-fit system



Location: Scotland, UK

Solution: MULTIduct™, STAKKAbox™
ULTIMA & concrete infill covers

Highlight: Designed bespoke 45° MULTIduct™ bends to transfer cables across a 40m bridge and back into the wider motorway communications network (built with STAKKAbox™ access chambers)





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Driven by *Innovation*

Cubis is Europe's leading manufacturer of network access chamber and ducting systems, used in the construction of infrastructure networks for rail, telecoms, water, construction and power markets.

Cubis has developed an innovative approach in an old-fashioned industry. This has been achieved by developing quality products which replace traditional construction materials, like bricks and concrete, with lightweight plastics incorporating intelligent design features. These can then be installed faster and ultimately save our customers both time and money.

Cubis manufactures preformed network access chamber systems STAKKAbox™, AX-S™ access covers, MULTIduct™ multiple duct system and RAILduct™ cable trough at its manufacturing sites throughout the UK and Ireland these products are exported to more than 25 countries throughout the World.

At Cubis we pride ourselves on delivering technical customer support, new innovation, product quality and the highest levels of customer satisfaction.