Innovative Cable Management Systems
Drawing on more than a century of expertise in the development and fabrication of advanced materials, Furukawa contributes to the realisation of a sustainable society through continuous technological innovation.

In order to build a sustainable world and make life safe, peaceful and rewarding, Furukawa Electric Group continues to develop solutions for the new generation of global infrastructure, combining information, energy and mobility.

Furukawa’s cable management systems are further examples of the commitment to innovative, environmentally friendly and time-saving products. Distributed worldwide, Furukawa cable management systems are installed on some of the world’s most groundbreaking infrastructure projects.


The world’s most versatile cable trough system.
Available in 6 sizes.

4,000 tonnes of recycled household plastic waste is used to make Green Trough in one year. Equivalent to 268 million average-sized plastic bottles/containers.
ADVANTAGES OF GREEN TROUGH

Secure Lid
A variety of lid fixings are available to suit security and access requirements.

Versatile
Straights, bends, gradients and t-junctions all available in an extensive range of sizes, together with accessories and an elevated system.

Impact Resistant
Green Trough sustains only superficial damage when dropped from a height of 0.7m. It can still be used even if dropped during installation as it will not crumble like concrete alternatives.

Extremely Durable
50+ year resistance to UV according to Furukawa’s accelerated UV exposure test. Safe installation temperature range -40°C to 80°C. Green Trough’s unique design allows for thermal expansion and contraction. Resistant to salt/snow melting agents and acid rain.

Intuitive Joint
Joint system allows for obstacles to be avoided without the need for additional accessories. Units can deviate up to 5 degrees vertically and horizontally.

Lightweight
Approximately 70% lighter on average than conventional concrete alternatives. All Green Trough units are a ‘one-man lift’ for fast and safe installation.

Load Bearing
Green Trough can withstand a vertical load of 10kN/m and is safe to walk on.

Flame Resistant
Halogen free and complies with IEC 61084-1 ‘Non-flame propagating’ standard. K1 according to DIN 53438.

Adjustable
Most Green Trough units can be manually shortened whilst still retaining an interlocking connection. Units can be processed on site using basic hand tools, with no dust.
GREEN TROUGH PRODUCTS

A market leading range of cable troughs and accessories, to reduce installation time and associated costs.

Each Green Trough series is available with a clasp, screw or band type lid fixing, to suit a variety of installations.

STRAIGHT (Standard)

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Dividers sold separately.

GRADIENT UNITS (Up or Down)

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Dividers sold separately.

45 DEGREE BEND UNITS

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Dividers sold separately.
SECTORS

Green Trough is approved for numerous applications worldwide

Green Trough’s extensive product range together with its excellent mechanical properties make it ideal for a wide range of installations and cable types.

ANTI-SLIP WALKWAY

A combined cable trough and hard-wearing safe walkway developed in collaboration with our UK partner Trough-Tec Systems.

Green Trough walkway comprises of two units joined in parallel pairs to form a 780mm wide surface.

OTHER ACCESSORIES

END PLATE

JOINT PLATE/REDUCER

ELEVATED BRIDGE

JUNCTION BOX
Available in 5 sizes, with a range of innovative accessories, EFLEX Square is an incredibly versatile system which enables simple and fast installation of buried cable routes.

EFLEX Square is flexible and stackable, removing the need for costly and cumbersome bend pieces. The user is free to configure the cable duct stack to suit the project’s specific requirements, rather than being limited to a preconfigured layout.

SECTORS

EFLEX Square’s versatility and innovative range of accessories make it a great choice for any infrastructure project. Requiring shallower burial depths, EFLEX Square can save significant labour time and costs, and it’s square shape allows more cables to be installed in limited spaces.

HIGHWAYS  
RAIL/LIGHT RAIL  
ENERGY  
STADIUMS  
AIRPORTS  
+ MORE
ADVANTAGES OF EFLEX SQUARE

Space Saving
EFLEX Square units are stackable, resulting in fast and simple installation, even in areas with limited space.

Environmentally Friendly
EFLEX Square is made from High Density Polyethylene and is fully recyclable.

Flame Resistant
Self extinguishes in under 30 seconds according to JIS C3653.

Versatile
The stack configuration is determined by the user. Available in 5 sizes with built-in watertight push fit connectors. An extensive range of intuitive accessories are also available.

Ideal for areas with limited space
Requires smaller trench & no duct spacers

Lightweight
A 5.3m 100 series unit weighs only 6.4kg

Durable
Resistant to chemicals including distilled water, sodium chloride solution, Sulfuric acid, Nitrate and sodium hydroxide solution.

Flexible
Every EFLEX Square unit has a minimum bend radius up to 10 x its inner diameter. No separate bend pieces are required. Bend pieces are usually expensive and only add time and cost to the installation.

Strong
Buried at 300mm, EFLEX Square can handle loads equivalent to that of a 25 tonne truck. The shallower burial depth means a smaller trench is required, further reducing installation time and cost.

EFLEX Square seamlessly integrates with Green Trough to provide the ultimate cable management pairing.

Efficient
EFLEX Square is made from High Density Polyethylene and is fully recyclable.
EFLEX SQUARE PRODUCTS

The stackable units are supplied in 5.3m lengths with built-in male and female push-fit watertight connectors.

**EFLEX SQUARE**  
Used to connect cut ends of EFLEX Square, when adjusting length.  
• Non-woven expanding material for a moisture-activated watertight seal  
• Single action locking clips for a quick and secure connection  
• No tools required

**AQUA SQUARE MALE ADAPTOR**  
To connect a cut end of EFLEX Square to a female connector  
• Non-woven expanding material for moisture-activated watertight seal  
• Single action locking clips for a quick and secure connection  
• No tools required

**AQUA CONNECTOR**  
• 1-minute install  
• Non-woven expanding material for moisture activated watertight seal  
• No tools required  
• Fits any wall thickness

**LONG BELL MOUTH**  

**BELL BLOCK**  
For connecting to chambers. Available in 1, 2, 3, 4, 5, 6 and 9-way profiles. Built-in female connectors

**MALE TO MALE ADAPTOR**  
Used to connect two EFLEX Square female connectors.  
• Built-in watertight push-fit connectors

**BELL MOUTH**  
Can be used to connect EFLEX to Green Trough

**CONVERTER TO EFLEX ROUND**  
Required for the AQUA Connector, Bell Mouth and our adaptors for other types of duct (steel, PVC etc.)

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**STANDARD UNIT**

<table>
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<tr>
<th>Series</th>
<th>A: Outer Diameter</th>
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EFLEX Square units feature built-in cutting guides to allow simple length adjustment. Our range of adapters can be used to secure cut pieces of EFLEX Square.

Guides allow for easy cutting