ZIP CLIP

**SUSPENSION**
**SOLUTION DATASHEET**

# THE Y-IT SYSTEM

**THE Y-IT RANGE of wire supports is designed to turn one suspension point in the ceiling into two connections points at the service level. The system incorporates an inverted Y-Shape design with equal leg lengths that ensures the services are level once installed.**

## AVAILABILITY

| Service connection fixing | Carabiner | Toggle |
|---|---|---|
| Lengths | 1 m - 10 m | |
| Span widths | 300mm, 460mm | 300mm, 460mm, 600mm |
| Safe working loads | **S** - 50 kg<br>**Y** - 90 kg | **S** - 35 kg<br>**Y** - 90 kg |
| Product suffix | YTR | YLM |
| **Note:** G-systems also available but should not be used with HVAC installations. | | |

## APPLICATIONS

- Directly wrap around an existing structure using an appropriate Zip-Clip locking device.
- Couple with a fixing of choice to anchor to the ceiling material.
- Long single runs of cable management (basket or tray).
- Support of light fittings.

**Use carabiners to clip straight onto:**

- Cable baskets.
- Cable trays.
- Pipe work brackets.
- Chilled beams.
- Radiant heat panels.
- Fan coil units.
- Retrofitted eye bolts.
- Acoustic boards.

**Use toggles to fix through:**

- Light fittings.
- Cable trays.
- Plenum boxes.
- Radiant heat panels.
- Chilled beams.
- Speaker systems.

## BENEFITS

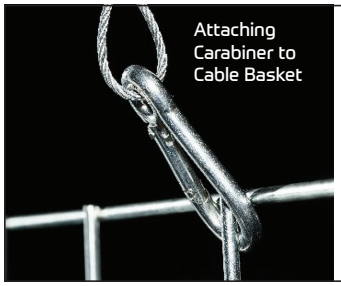
- Allows for side loading of cable containment.
- Self-levelling.
- Variety of spans.
- Variety of SWL.
- Removable (carabiners).
- Reduces the amount of total supports required.
- Negates the use of a profile channel bearer.
- 18th Edition Amendment 2 : 2022 compliant.

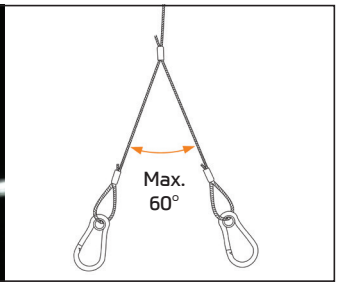
## INSTALLATION

**Attaching Carabiners to Cable Basket:**

1. Open gate of carabiner and hook around upright wire of cable basket.
2. Repeat on opposite side of basket.
3. Ensure angle of the inverted Y-shape is 60 degrees or less.

**Note:** Fix carabiners directly opposite from each other to ensure fixture hangs level and always ensure snap gate has closed fully.

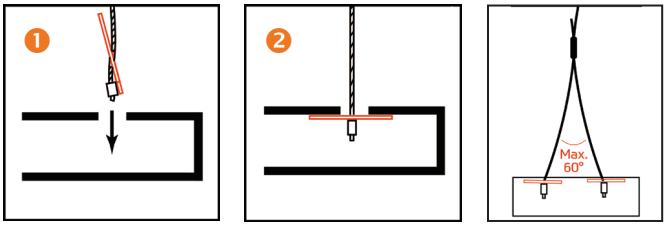


### Attaching Toggles to Through Holes:

**Note:** Toggles should be placed into through holes no larger than 12 mm diameter. Always ensure toggles are compatible with the through hole.

1. Invert the toggle so it is parallel with the wire.
2. Place the end-stop into the selected through-hole and then push the toggle into the hole – Toggle will naturally rotate 90 degrees to the wire to span the hole. Ensure toggles are located correctly and not overloaded.
3. Repeat on opposite side of light fitting, cable tray, etc.
4. Ensure angle of the inverted Y-shape is 60 degrees or less. If angle exceeds 60 degrees use a Y-It with a larger span.




### Attaching to Anchor Point Using Zip-Clip Locking Device:

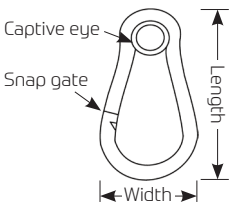
1. Pass the wire rope through the Zip-Clip device in the direction of the arrow.
2. Pass wire rope through or around your required anchor point and back through the Zip-Clip leaving 15 cm of wire protruding.
3. Confirm engagement of the Zip-Clip on the wire by pushing the pin in the **opposite** direction to the arrows indicated.

## MATERIALS

### The Carabiners:

Carbon steel with bright zinc plated (BZP) finish. Snap gate system and captive eye to house wire and prevent accidental release.

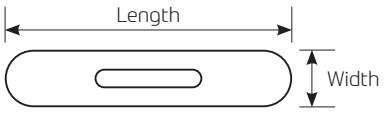
| Size | Length (mm) | Width (mm) | SWL (kg) |
|---|---|---|---|
| M4 | 40.0 | 19.0 | 15 |
| M5 | 50.0 | 26.0 | 50 |
| M6 | 60.0 | 28.0 | 90 |




### The Toggles:

Annealed spring steel, BZP finished.

**Toggle Sizes Available**




| Toggle | G-System | S-System | Y-System |
|---|---|---|---|
| Length (mm) | 40.0 | 40.0 | 50.0 |
| Width (mm) | 5.0 | 8.0 | 9.5 |
| Gauge (mm) | 1.08 | 1.53 | 1.60 |
| Slot length (mm) | 20.0 | 15.0 | 25.0 |
| Slot width (mm) | 1.53 | 2.72 | 3.5 |

### Zip-Clip Devices:

Zamak zinc alloy main body with internal stainless steel spring and sintered steel locking wedge(s).

### Wire Rope:

Galvanised mild steel electro-galvanised wire rope, 1960 N/mm² grade, 7×7 IWRC construction, manufactured to BS EN 12385.

### Swages (also known as Ferrules):

Manufactured from seamless aluminium tube, finished in-house utilising a 25T cylindrical press die with cutting edge. Compliant with BS EN 13411-3 and suitable for wire ropes manufactured to BS EN 12385.

## FIXING CENTRES

**Note:** Ensure adequate fixing centres are utilised for the intended application and follow industry standards accordingly. Do not overload or go beyond SWL.

## MANUFACTURERS RECOMMENDATIONS

The Zip-Clip Y-It system is designed to support **STATIC loads only**. Dynamic and shock loads must be avoided and can greatly increase the overall weight of the product being suspended and therefore compromise the safe working load of the suspension. To ensure integrity and safety of the system only Zip-Clip wire should be used.

- Do not exceed the safe working load (SWL) of the product.
- Do not use locking devices with a coated wire.
- Do not paint or apply any other coating.
- Do not lubricate.
- Do not use for lifting applications.
- Remove any frayed cable prior to inserting into the locking devices.
- Do not shock load.
- Do not use for dynamic loads/installations.
- Do not overload.
- Do not mix Zip-Clip systems with other wire suspension manufacturers products.
- Do not use in corrosive environments, e.g. chlorinated environments – For specialist applications, such as corrosive environments, please contact Zip-Clip Technical Department.

ZIP CLIP

For further information on Zip-Clip suspension solutions, for technical or sales enquiries, contact us on Tel: +44 (0)1686 623366 • Email info@zip-clip.com