GOMAC.ie
Cable Suspension Systems

ZIP CLIP

SUSPENSION SOLUTION DATASHEET

SNAP-IT SYSTEM

THE SNAP-IT SYSTEM is a wire suspension solution that incorporates a carabiner as the termination point. The system is designed for quick installation or removal of a wire support. The inclusion of the carabiner allows the suspension to be coupled with additional fixings to support applications from multiple ceiling types.

AVAILABILITY

Zip-Clip offer three different Snap-It systems each allocated a letter to differentiate between the available safe working loads (SWL). Each system comprises of a specific diameter of wire rope and is supplied with an appropriate Zip-Clip locking device.

- **PSEKG** system – 15 kg SWL
- **PSEKS** system – 45 kg SWL
- **PSEKY** system – 90 kg SWL

Note: G-system should not be used for HVAC.

Snap-It is available for drop lengths of 1 m to 10 m. Loads indicated are per individual wire support when coupled with the appropriate Zip-Clip locking device.

FEATURES

- 18th Edition Amendment 2 : 2022 compliant.
- Snap gate carabiner.
- Integral eyelet to keep wire rope located.
- Key-free release wire suspension for height adjustment – Requires no tools.
- High tensile galvanised steel wire rope.
- Systems can be inverted upside down – carabiner can be attached to ceiling or application.
- Removable – for maintenance purposes.

APPLICATIONS

The Snap-It range is designed for indoor applications. Regular galvanised systems should not be used in areas that have levels of corrosion or elevated levels of heat or moisture.

- Lighting suspension as primary or secondary support.
- Cable basket support.
- Trunking and busbar stirrups.
- Connection to a through-hole (plenum boxes).
- Coupling with an eye bolt adapter or fixings that incorporate a hole such as purlin clips.

INSTALLATION

Concept – Use the carabiner termination to attach a wire suspension to the ceiling material or invert the suspension to attach to the intended application.

- The first step for installation process is to attach the wire support to the anchor point (ceiling).
- The second step in the installation process is to fit the Zip-Clip locking device.

STEP 1: The Carabiner

1. Confirm the chosen anchor point is compatible with the carabiner.
2. Fully open the snap gate of the carabiner.
3. Pass the hook of the carabiner through the anchor point.
4. Ensure the snap gate fully shuts once the carabiner has been installed.

Note:

- Ensure carabiner is loaded along the longest axis only.
- Carabiner and wire suspension must be loaded along same axis.
- Do not load the carabiner with the snap gate open.
- Do not allow a point load to be applied to snap gate.

STEP 2: The 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 fixture/application 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.

ADJUSTMENT of the Zip-Clip Locking Device

Please note: Before any adjustments can be made it is necessary to take all weight off the Zip-Clip device. It will not be possible to make adjustment if this is not done.

To shorten the suspension:

1. Push the Zip-Clip device further up the live (load) wire – This will make the loop bigger.
2. Pull on the dead wire (exit tail) to make the loop smaller – This will shorten the suspension.
3. Trim the dead wire tail to minimum 15 cm or coil the wire neatly to allow for future adjustment.

To lengthen the suspension:

1. Select the channel that holds the dead wire.
2. Make sure there is enough spare dead wire to allow for adjustment whilst maintaining an exit tail.
3. Push the adjustment pin in the direction of the arrow. This will release the dead wire (exit tail).
4. Allow the dead wire to feed back through the Zip-Clip. This will make the loop bigger.
5. Now select the channel that holds the live wire (load).
6. Push the adjustment pin in the direction of the arrow. This will release the live wire.
7. Allow the Zip-Clip to travel down the live wire. This will make the loop smaller.

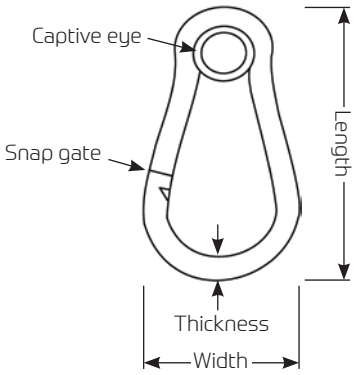
MATERIALS

Zip-Clip Locking 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/mm^2 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.

The Carabiners:
Carbon steel with BZP finish. Snap gate system and captive eye to house wire and prevent accidental release.



	Size	Length (mm)	Width (mm)	Thickness (mm)
G-SYSTEM	M5 × 50	50.0	25.0	5.0
S-SYSTEM	M5 × 50	50.0	25.0	5.0
Y-SYSTEM	M7 × 70	70.0	35.0	7.0

MANUFACTURERS RECOMMENDATIONS

The Zip-Clip Snap-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 or rigging 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.