



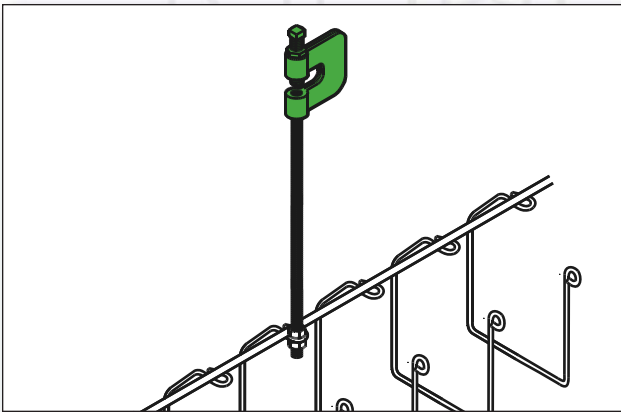
CABLE MANAGEMENT SOLUTIONS, INC.

CABLE MANAGEMENT AND POWER DISTRIBUTION

## Snake Tray® Installation Instructions



**Figure 1** - Attaching the 101 Series Snake Tray to the floor using CM-CA-38 anchor bolts



**Figure 2** - Attaching Beam clamp to the building structure



**Figure 3** - Suspending Snake Tray from threaded rod using the "Snake Eyes"

### 101 Series Snake Tray

- 1) Determine cable tray pathway layout
- 2) Layout trays according to the prescribed design drawings
- 3) Connect trays together using the supplied CB-12 connector bolts. (Fig. 7)
- 4) Secure tray to the floor through the built-in mounting rings with applicable fasteners at a minimum of 4'-0" OC (Fig. 1)
- 5) Changes of direction are accomplished by simply bending the tray by hand into the desired configurations (See Note 1)
- 6) Install cable along prescribed pathways

### 201 Series Snake Tray

#### **A) Installed overhead suspended from threaded rod**

- 1) Determine cable tray pathway layout
- 2) Attach threaded rod to the building structure with approved fasteners at 4'-0" OC intervals. (Fig. 2)
- 3) Install top hex nut to the threaded rod at the appropriate elevations
- 4) Slide Snake Tray sections up onto threaded rod, landing the tray against the previously installed hex nut. This hex nut will align the tray to the threaded rod and sit flat against the wire loop "Snake Eyes". Complete the attachment by installing a flat washer and second hex nut on the underside of the Snake Eye. Tighten both hex nuts securely to lock tray to the threaded rod. (Fig. 3)
- 5) Connect trays together using the CB-12 connector bolts. (Fig. 7)
- 6) Changes of direction are accomplished by simply bending the tray by hand into the desired configurations (See Note 1)
- 7) Install cable along prescribed pathways

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**Figure 4** - Installing Snake Tray on a wall using WBN wall brackets.



**Figure 5** - Securing the 201 Series Snake Tray under an access floor to the vertical pedestal base using the ST-201 bracket.



**Figure 6** - Wall Snake attached directly to the wall using CM-501-CA anchor bolts



### B) Installed along a wall with WBN series brackets

- 1) Determine cable tray pathway layout
- 2) Secure Wall brackets to the wall surface using approved wall anchors at 4'-0" OC intervals.
- 3) Fasten Snake Tray sections to the wall brackets by aligning the Center spine of the tray with the WBN series bracket and connect using the included U-bolt. The U-bolts are to be securely tightened.
- 4) Connect trays together using the CB-12 connector bolts. (Fig. 7)
- 5) Changes of direction are accomplished by simply bending the tray by hand into the desired configurations (See note 1)
- 6) Install cable along the prescribed pathways

### C) Installed under raised floors ST series brackets

- 1) Determine cable tray pathway layout
- 2) Attach ST series brackets every 4'0" to the vertical floor pedestals at the correct elevations (Fig. 5)
- 3) Fasten Snake Tray sections to the ST series brackets using the included U-bolt. U bolts are to be securely tightened.
- 4) Connect tray together using the CB-12 connector bolts. (Fig. 7)
- 5) Changes of direction are accomplished by simply bending the tray by hand into the desired configurations (See Note 1)
- 6) Install cable along the prescribed pathways

### 501 Series Wall Snake

- 1) Determine cable tray pathway layout
- 2) Layout trays according to the prescribed design drawings
- 3) Using an approved anchoring system inserted through the mounting rings, "Snake Eyes", Wall Snake is affixed to the wall every 4'-0" with out the need for additional wall brackets. (Fig. 6)
- 4) Connect tray together using either the CB-10 connector bolt or the CB-12 connector bolts. (Fig. 7)
- 5) Changes of direction are accomplished by simply bending the tray by hand into the desired configurations. (See Note 1)
- 6) Install cable along the prescribed pathways.

**Figure 7** - Using a CB-10 (not pictured) or CB-12 (pictured) Universal connector bolt, two sections of Snake Tray are joined together





Figure 8



Figure 9



Figure 10

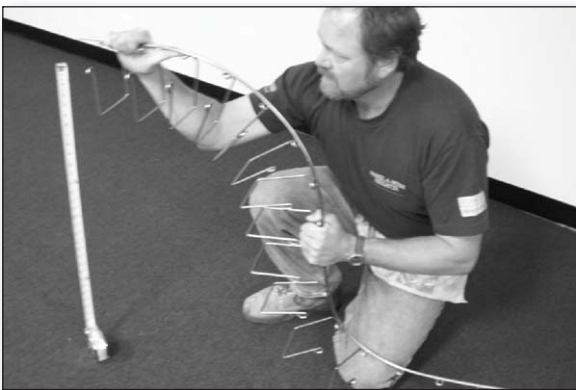


Figure 11

### Note (1)

Snake Tray sections are to be bent using the following method:

Work off a sturdy, level surface. This helps keep the tray bending on one axis. Trying to complete the bend free hand without a level surface will lead to an unprofessional looking bend and the possibility of another bend on a second axis. (Fig. 8)

By using the surface as a guide, make the bend in small increments instead of one large bend. This allows for a smooth, controllable bend. Use your knee as a pivot point to give the bend a uniform appearance.

### Sweep Right or Left:

With the Snake Tray resting on the floor place your knee between the 4-inch ribs, bend a few degrees, move your knee to the next segment and repeat the process on each subsequent section until sweep is completed. (Fig. 9)

### Sweep Up:

Rest the Snake Tray on the floor and use your hand to make incremental bends a few degrees per 4-inch segment until the sweep is complete. (Fig. 10)

### Sweep Down:

Turn the Snake Tray upside down, with the spine resting on the floor, trap the spine on the floor with your hand or foot, and bend a few degrees per segment. Keep the bends shallow enough to prevent the ribs from closing on each other. Down sweeps are smoother and have larger radii. (Fig. 11)