

Securing Flex Cables for Side-Mounted Branch-Fed Systems

Securing

It is vital that runs of flex cable be secured firmly at frequent intervals. This is done to prevent arcing between cables and tower members, and mechanical damage from cables rubbing against each other and tower members.

Precautions

When securing cables, care must be taken not to crush or deform the outer conductor of the cable.

Procedure

To prevent mechanical damage, cables should be secured any time they pass within a minimum of one inch of each other or a tower member.

Cable runs longer than the following should be secured:

Cable Size	Run Length	* Secured Every
1/2"	4 ft.	3 ft.
7/8"	6 ft.	3 ft.
1-5/8"	12 ft.	3 ft.

* The cables must be secured at intervals of no more than three feet.

Shively will supply cable clamps with your antenna in a quantity based on our best guess of your needs - but every tower and installation is unique! Therefore, your rigger should supply additional cable clamps as required, and round and angle tower member clamps.

NOTE

Shively will not be responsible for installations that don't meet our recommendations!

- **Cable to cable:** Use two cable clamps and a full-threaded bolt or threaded rod with nuts, as shown in Figure 1 of this sheet, to secure the cables together.
- **Cable to flat, round, or angle tower member:** Use the threaded rod to secure the cables to a tower member (Figure 2).
- **Multiple cables:** Stack cable clamps on a single threaded rod to secure any number of cables (Figure 3).
Or use the clamps to separate cables (Figure 4).

Do NOT use metal clamps for securing either cable-to-cable or cable-to-tower.



Figure 1. Use to secure cable-to-cable or multiple cable runs.



Figure 2. Use to secure just one cable run.

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Figure 3. Stack the clamps to secure any number of cables.



Figure 4. Cables separated by the use of clamps.