

- Safety Glasses
- Work Gloves
- Pencil
- Measuring Tape
- Electric Drill
- Drill Bits
- Hammer
- **Cable Cutters** or Cut-Off disk
- Vise-Grip Pliers
- 7/16" Wrench
- Electric Grinder
- Hacksaw or Electric Reciprocating Saw
- Cable Lacing Needle

Recommended cable tensioning sequence





Mark drill hole locations on posts.

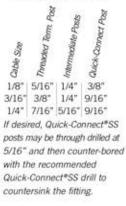
To minimize cable deflection, space cables no more than 3 inches apart and have a post or vertical spacer at least every 3 feet. Also, straight runs of cable (no turns/dips) should not exceed 70 feet. Runs with corners. (2 bends at most) should not exceed 40 feet. See Frame Requirements on back page.



Quick-Connect®SS fitting with one hand and pull the cable tight with the other. The fitting automatically locks when you release the cable.



Drill holes in posts. Hole diameter depends on cable size and type of fitting. See chart below.





(Wood posts only) Insert Protector Sleeves at necessary locations. Tap in until flush.

Protector Sleeves prevent abrasion at angled transitions on wood posts (e.g. stair transition posts or outside faces of double corner posts).





Insert the Threaded Terminal through the Terminal end post and attach a flat washer and Snug-Grip® Washer-Nut. Spin the nut 2 full turns. Strong resistance will be felt as the Snug-Grip® threads engage; so hold the Terminal shaft with pliers.

Use Beveled Washers for stair termination posts with angled holes. Available for Threaded Terminal and Quick-Connect®SS



Lace the free end of the cable through the intermediate posts and Quick-Connect®SS end post. Slide-on a flat washer and Quick-Connect®SS fitting until they rest against the face of the post.

Use a Lacing Needle if snagging becomes a problem.

Hold the



Tighten Snug-Grip® Washer-Nuts until you can't flex the cables more than 4 inches apart using your thumb and fingers on one hand. See diagram to the left for tensioning sequence.

Important Note: If using electric or pneumatic tools to tighten the Washer Nuts, spin the nuts very slowly otherwise they will heat-up causing the threads to seize.



Saw off the excess threads as close to the Snug-Grip® Washer-Nut as possible. Touch-up with electric grinder. The special Snug-Grip® threads prevent the nut from loosening.



fittings.

or cut-off disk to trim the excess cable, Grind flush the exposed cable ends with an electric grinder.



Snap on end caps over the exposed Quick-Connect®SS fittings and the Snug-Grip® Washer-Nuts. You're done.

Enviro-Magic® Cleaner can be applied for lasting protection of stainless steel cable and parts.

Cables can either terminate or run through corner posts

SINGLE WOOD POST*

Terminating



Continuous



DOUBLE WOOD POSTS

*Offset drill holes at least 1/2" if you choose to have cables terminating at a single wood post.

Step-by-Step Installation for Wood Frames

CADLE-RAIL Wood Frame Requirements



Railing frames need to be designed and built strong enough to support the tension of properly installed cables, which is a load in excess of 300 lbs for each cable. Here are some basic guidelines to help you properly prepare your railing frames. These guidelines apply whether you are using 1/8", 3/16" or 1/4" cable (1/4" cable not recommended for wood frames).



Minimum sizes for all corner and end posts

All other posts should be sized as required for cap rail support strength or for code

4X6 WOOD 3-1/2" wide, 5-1/2" thick

The Basic Frame Design

Spacing From Walls:

Set end posts 3 to 4 inches away from the house/wall face to allow access for attaching cable end fittings.

End Posts:

Use minimum end post sizes noted above, and securely bolt or screw to joists or deck surface.

MAX. 3 FEET Maximum Post Spacing: Space all posts and vertical

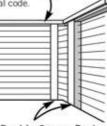
space an posts and ventual spacers (see below) a maximum of 3 feet apart to minimize any deflection that may occur if the cables are ever forced apart.

Intermediate

Size all intermediate posts as required for cap rail support strength or for code.

Cap Rail:

Always include a strong, rigid cap rail that is securely fastened to all posts. Cap size is based on load strength needs and local code requirements. Set railing height per local code.



Double Corner Posts:

If possible use double corner posts to allow the cable to run continuously through the corners without terminating (see single corner post option below). Securely bolt or screw posts to joists or deck surface and use minimum corner post sizes noted above.

Cable

Spacing:

Maximum 3

inches apart.

(WOOD FRAMES ONLY):

Underneath the cap

rail attach minimum

1"x 4" wood blocking

between posts to pro-

vide additional lateral

reinforcement to the

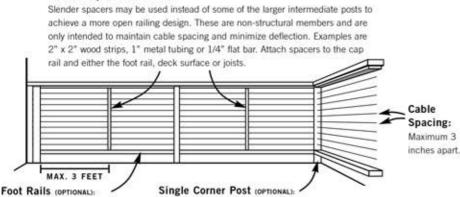
cables are tensioned.

posts so that they

won't pull out of plumb when the

And Some Other Options

Vertical Spacers (OPTIONAL):



Foot rails should be spaced no more than 4 inches above the deck surface, or as required by local code, and should be sized as needed for support strength and design appearance.

When terminating on a single corner post, be sure to offset the drill holes at least 1/2" to allow internal clearance for the cable fittings. Use minimum end post sizes noted above and securely bolt or screw to joists or deck surface.

CONSTRUCTION CHECKLIST

- Space cables no more than 3 inches apart
- Space posts/verticals no more than 3 feet apart
- Observe minimum end/corner post sizes shown above
- Securely fasten all posts and cap rails
- Carefully plan all termination and corner posts for proper clearance, positioning, and maximum cable run lengths
- Straight runs of cable (no turns/dips) should not exceed 70 feet; runs with corner bends (2 bends at most) should not exceed 40 feet

IMPORTANT NOTE

For railings we recommend spacing the cables no more than 3 inches apart and placing posts or vertical members no more than 3 feet apart.

Please note that since building codes vary by state, county and city, our recommendations may not comply with code requirements in all areas.

Always consult with your local building department before starting your project.