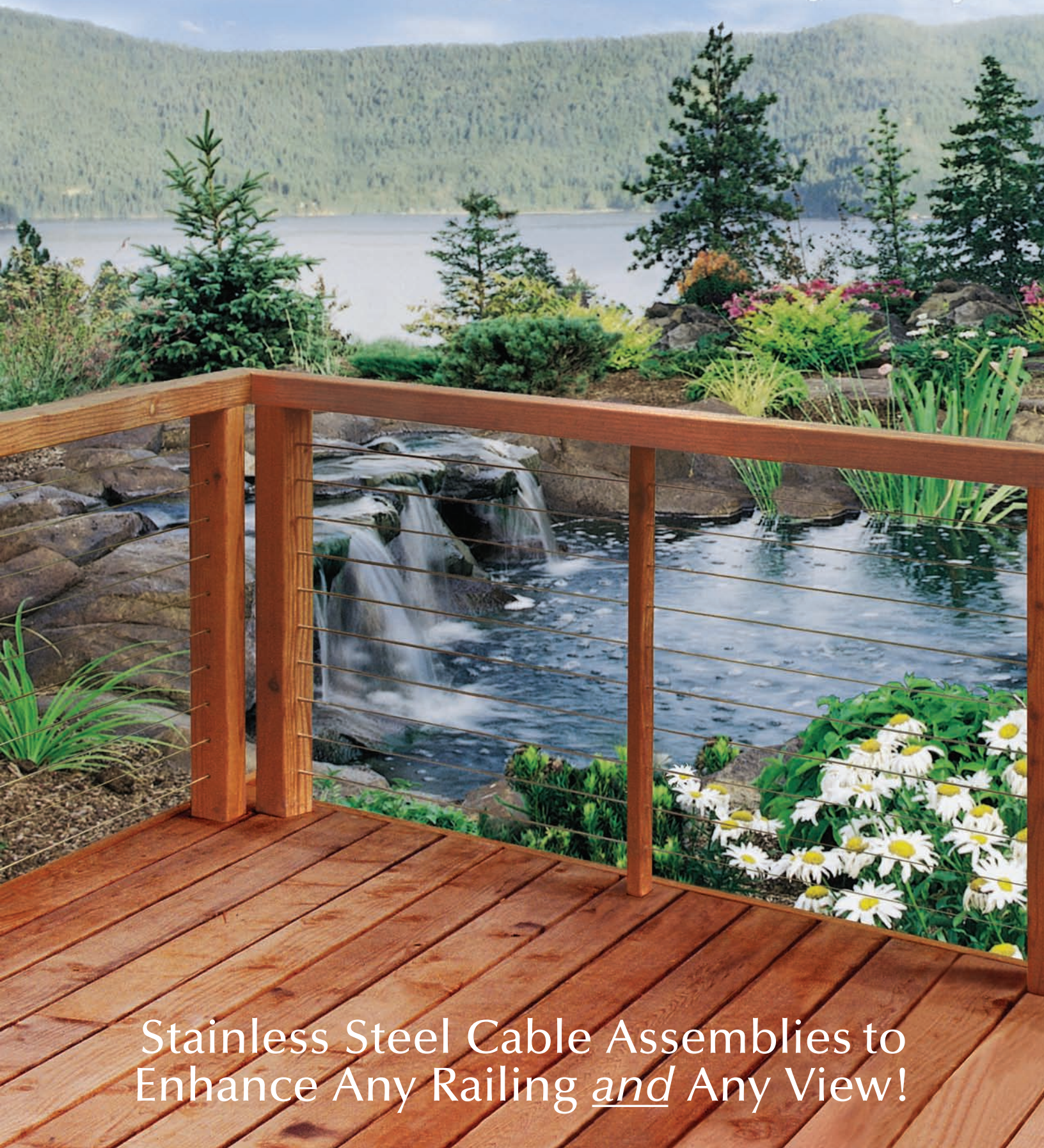


CABLE·RAIL®

by feeney®

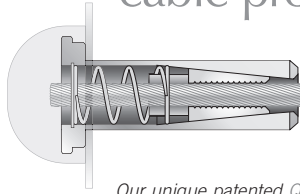


Stainless Steel Cable Assemblies to
Enhance Any Railing and Any View!

Easy.



Stainless Quick-Connect®SS fittings make cable projects quicker and easier than ever.



Our unique patented Quick-Connect®SS fitting is attached to the cable in the field without special tools. One-way jaws allow the cable to easily slide through the fitting in one direction but automatically grab and lock-on when the cable is released. Just slip it on, pull the cable tight and cut the excess.

The Cable is 1x19 construction, 316-grade stainless steel for strength, durability and weather protection. Available in 1/8", 3/16" and 1/4" diameters.

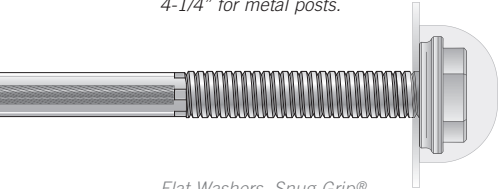
Our standard CableRail assemblies are now available in 3 cable sizes (1/8", 3/16", and 1/4") that are all sold in standard, pre-cut lengths for easy ordering. And the great thing is that you don't need to waste time taking precise railing measurements; just select assemblies that are longer than you need and trim any excess in the field.

Each assembly comes with a *Threaded Terminal* fitting pre-attached to one end and a field installed *Quick-Connect®SS* fitting for the other end. Simply secure the *Terminal* to one end post, lace the free end of the cable through the remaining posts, slip on a *Quick-Connect®SS*, tension the line, trim the excess and finish with decorative end caps. That's it.



The stainless Threaded Terminal fitting is fastened (swaged) to one end of the cable at the factory.

Attach it to an end post using our unique Snug-Grip® Washer Nut with special gripping threads to help prevent loosening. Spin the nut to adjust final tension in the line. Available in 7-1/2" length for wood posts and 4-1/4" for metal posts.



Flat Washers, Snug-Grip® Washer Nuts and Colored End Caps are all included. Stainless End Caps are also available as an accessory option.



Our cables are designed to be used on your own wood or metal frames in either indoor or outdoor settings.

Photo: ©2004 Jay Graham



Clean.

Components that are made to last.

All of our cables and swage fittings are manufactured from high quality 316-grade stainless steel for weather-tough durability and lasting beauty.

Assembly Options

Assembly
Lengths

With 4-1/4"
Terminal
for Metal
Posts

With 7-1/2"
Terminal
for Wood
Posts

1/8"

Standard Assemblies

Our most popular and cost effective cable option. Perfect for all residential and light commercial projects. Can be installed on wood or metal frames.

Assemblies are shipped with a Threaded Terminal attached to one end and a field installed Quick-Connect®SS fitting for the other end. A Snug-Grip® Washer Nut, pair of Flat Washers and pair of Colored End Caps are included.

DRILL HOLES



3/8"

1/4"

5/16"

Quick-Connect
Post

Intermediate
Posts

Threaded
Terminal
Post

3/16"

Standard Assemblies

Extra durable option for commercial as well as residential settings. Can be installed on wood or metal railing frames.

DRILL HOLES



9/16"

1/4"

3/8"

Quick-Connect
Post

Intermediate
Posts

Threaded
Terminal
Post

1/4"

Standard Assemblies

Largest, most durable option for high traffic, high wear commercial locations or for railing designs where the "look" of a larger cable is desired. Recommended for metal railing frames only.

DRILL HOLES



9/16"

5/16"

7/16"

Quick-Connect
Post

Intermediate
Posts

Threaded
Terminal
Post



| | | |
|-----|------|------|
| 5' | 6205 | 6305 |
| 10' | 6210 | 6310 |
| 15' | 6215 | 6315 |
| 20' | 6220 | 6320 |
| 25' | 6225 | 6325 |
| 30' | 6230 | 6330 |
| 35' | 6235 | 6335 |
| 40' | 6240 | 6340 |
| 45' | 6245 | 6345 |
| 50' | 6250 | 6350 |
| 55' | 6255 | 6355 |
| 60' | 6260 | 6360 |
| 65' | 6265 | 6365 |
| 70' | 6270 | 6370 |

| | | |
|-----|------|------|
| 5' | 6705 | 6805 |
| 10' | 6710 | 6810 |
| 15' | 6715 | 6815 |
| 20' | 6720 | 6820 |
| 25' | 6725 | 6825 |
| 30' | 6730 | 6830 |
| 35' | 6735 | 6835 |
| 40' | 6740 | 6840 |
| 45' | 6745 | 6845 |
| 50' | 6750 | 6850 |
| 55' | 6755 | 6855 |
| 60' | 6760 | 6860 |
| 65' | 6765 | 6865 |
| 70' | 6770 | 6870 |

| | | |
|-----|------|--------------------------------|
| 5' | 6905 | Not recommended for wood posts |
| 10' | 6910 | |
| 15' | 6915 | |
| 20' | 6920 | |
| 25' | 6925 | |
| 30' | 6930 | |
| 35' | 6935 | |
| 40' | 6940 | |

Specify End Cap Color preference when ordering. Or see next page for Stainless End Cap options.

Extra Parts & Tools



James Hill Architect San Francisco, CA

STAINLESS END CAPS

Decorative option for covering and finishing QuickConnect®SS fittings and Snug-Grip® Washer Nuts.

- 3372 Dome Style, 3/4" OD x 3/8" H
- 3373 Crown Style, 3/4" OD x 3/8" H
- 3374 Chamfer Style, 3/4" OD x 3/8" H



STAINLESS PROTECTOR SLEEVES

(Wood post only) For protecting corner and stairway transition posts from cable abrasion. Use with 1/8" & 3/16" Cable.

- 3210 1/2" OD flange with 1/4" OD shank x 7/8" long
(Fits 1/4" diameter drill holes)



STAINLESS BEVELED WASHERS

For providing a flat bearing surface when attaching fittings at angled stair terminations.

1/8" Cable

- 3792 3/4" OD x 3/8" ID (Quick-Connect®SS)
- 3799 3/4" OD x 9/32" ID (Threaded Terminal)

3/16" Cable

- 3798 3/4" OD x 9/16" ID (QuickConnect-SS™)
- 3799 3/4" OD x 9/32" ID (Threaded Terminal)

1/4" Cable

- 3798 3/4" OD x 9/16" ID (QuickConnect-SS™)
- 3792 3/4" OD x 3/8" ID (Threaded Terminal)



LONG DRILL BITS

For drilling holes through wood or metal posts.

- 3201 1/4" x 6" long
- 3203 5/16" x 6-1/2" long
- 3217 3/8" x 6-1/2" long
- 3218 7/16" x 7-1/2" long
- 3225 9/16" x 6" long (1/2" shank)



RUBBER GROMMETS

(Optional) For adding a finished detail to holes in tubular metal intermediate posts. Use with 1/8" diameter cable only.

- 3213 7/16" OD flange
(Fits 1/4" diameter drill holes)



SAW BLADES

For trimming excess Threaded Terminal threads.

- 3199 Hacksaw blade 12" x 24 teeth/inch
- 5065 Reciprocating Saw blade 6" x 24 teeth/inch



ABRASIVE DISKS

For trimming and touching-up exposed cable and threads. Fits 4-1/2" electric grinders with 7/8" arbor holes.

- 3219 Cut-Off Disk (for cutting stainless)
- 3220 Grinding Disk



CABLE CUTTERS

For shearing excess cable.

- 2972-pkg 7-1/2" long (1/8" cable)
- 2971 13" long (3/16" & 1/4" cable)



CABLE LACING NEEDLE

For quickly lacing cable ends through posts without snagging.

- 3221 4-1/2" long (1/8" cable)
- 3222 4-1/2" long (3/16" cable)
- 3223 4-1/2" long (1/4" cable)



ENVIRO-MAGIC® CLEANER

For cleaning and protecting cable and hardware.

- 5063 16 oz. spray bottle non-toxic, bio-degradable



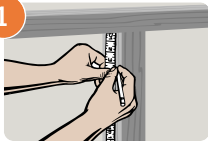
HOW TO ORDER

- 1) **Carefully Review:**
read all of the installation instructions, details and frame recommendations.
- 2) **Select Assembly Lengths:**
decide where you'll start and end your cables. Runs shouldn't be over 70 feet and runs with bends (2 bends at most) NOT over 40 feet. Select Assemblies that are at least one foot longer than the length of your railing sections.
- 3) **Determine Quantities:**
the number of assemblies depends on your railing design: remember, space cables no more than 3 inches apart.
- 4) **Check Accessories:**
count up all the stainless end caps, protector sleeves, grommets, beveled washers and tools you'll need.
- 5) **Place The Order:**
contact your local CableRail distributor and place the order. Special orders take about 2-3 weeks for delivery. Expedited services may be available.

Step-by-Step Installation

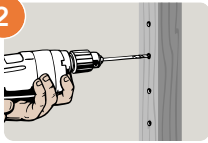
TOOL CHECKLIST

- 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

1 

Mark drill hole locations on posts.

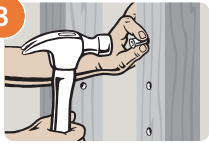
Note: space cables no more than 3 inches apart and have a post or vertical spacer at least every 3 feet. Also, straight runs of cable (no turns/dips) should not exceed 70 feet. Runs with corners (2 bends at most) should not exceed 40 feet. See page 7 for frame construction guidelines.

2 

Drill holes in posts. Hole diameter depends on assembly size and type of fitting.

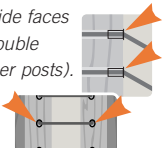
| Assembly Size | Threaded Term. Post | Intermediate Posts | QuickConnect Post |
|---------------|---------------------|--------------------|-------------------|
| 1/8" | 5/16" | 1/4" | 3/8" |
| 3/16" | 3/8" | 1/4" | 9/16" |
| 1/4" | 7/16" | 5/16" | 9/16" |

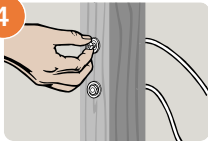
If desired, Quick-Connect®SS posts may be through-drilled at 5/16" and then counter-bored with the recommended Quick-Connect®SS drill to countersink the fitting.

3 

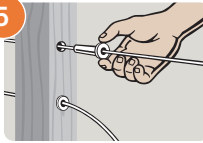
(Wood posts) Insert Protector Sleeves at necessary locations. Tap in until flush.

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




4 

Insert the Threaded Terminal through the Terminal end post and attach a flat washer and Snug-Grip® Washer Nut. Spin the nut 3 full rotations. The threads will be very tight, so hold the shank of the Terminal with Vise-Grip pliers and turn the Washer Nut with a wrench.

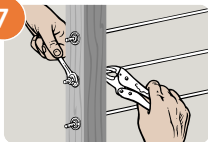
5 

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.


Use a Cable Lacing Needle to prevent snagging. See Tools page 5.

6 

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

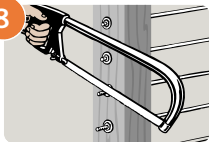
7 

Tighten Washer Nuts until you can't flex the cables more than 4 inches apart using your thumb and fingers on one hand. Hold the Threaded Terminal shaft with Vise-Grip pliers while tightening.




Recommended cable tensioning sequence >

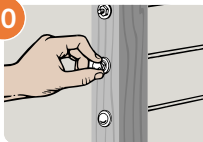
11
9
7
5
3
1
2
4
6
8
10
12

8 

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

9 

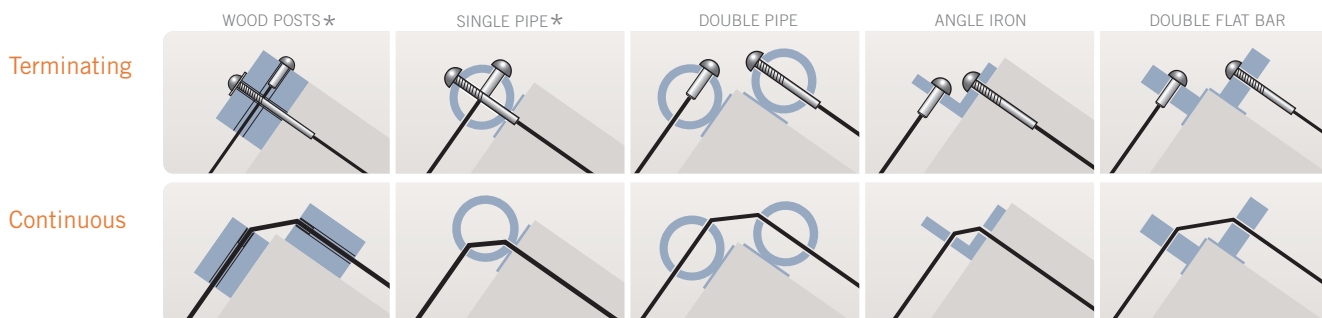
Use cable cutters or cut-off disk to trim the excess cable. Grind flush the exposed cable ends with an electric grinder.

10 

Snap on end caps over the exposed Quick-Connect®SS fittings and the 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



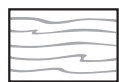
★ Offset drill holes at least 1/2" if you choose to have cables terminating at a single wood or pipe post.

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.

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



FLAT BAR
2" wide, 1" thick



ANGLE IRON
2" wide, 1/2" thick



EXTRA STRONG PIPE
1-1/2" ID, 1-7/8" OD



SQUARE TUBE
2" wide, 1/4" wall

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.

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.

Cable Spacing:

Maximum 3 inches apart.

Wood Blocking

(WOOD FRAMES ONLY): Underneath the cap rail attach minimum 1"x4" wood blocking between posts to provide additional lateral reinforcement to the posts so that they won't pull out of plumb when the cables are tensioned.

Maximum Post Spacing:

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

Intermediate Posts:

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

Double Corner Posts:

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

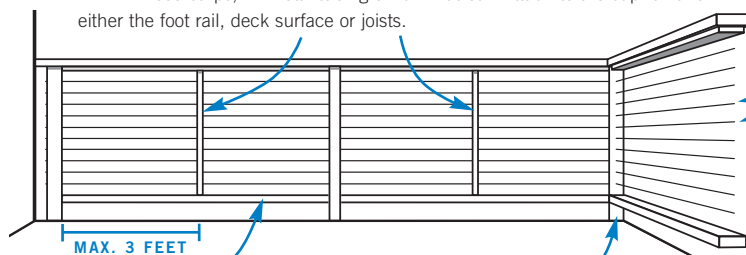
CONSTRUCTION CHECKLIST

- 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

And Some Other Options

Vertical Spacers (OPTIONAL):

Slender spacers may be used instead of some of the larger intermediate posts to achieve a more open railing design. These are non-structural members and are only intended to maintain cable spacing and minimize deflection. Examples are 2" x 2" wood strips, 1" metal tubing or 1/4" flat bar. Attach to the cap rail and either the foot rail, deck surface or joists.



Foot Rails (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.

Single Corner Post (OPTIONAL):

In most cases with single corner posts cables must be terminated. Exceptions are angle iron posts or tubular metal posts. 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.

Cable Spacing:

Maximum 3 inches apart.

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.



CHECK THE CABLE·RAIL™ ADVANTAGES

Saves Time & Money

□ Standardized assemblies, Quick-Connect®SS fittings, Snug-Grip® Washer Nuts, smaller drill holes and no exact measuring makes ordering and installing a snap.

Cleaner Appearance

□ People use cable because it doesn't block the view. With Quick-Connect®SS fittings and decorative end caps, the hardware almost disappears as well.

Drill Smaller Holes

□ You never have to struggle drilling a big hole to accommodate a bulky end fitting. There aren't any.

No Special Tools

□ You won't need anything more sophisticated than an electric drill, wrench and some cable cutters.

Three Size Options

□ Assemblies are now available in 1/8", 3/16", and 1/4" cable sizes for residential and larger commercial projects.

All Stainless Steel

□ Made from weather-tough stainless steel for maximum protection and lasting beauty.

Versatile

□ Railings, trellises, fences, exteriors, interiors, residential, commercial, wood or metal frames.

10 YEAR WARRANTY

Feeney, Inc. warrants that all CableRail stainless steel cable and connectors shall be free from defects in material and workmanship under normal use, conditions, installation and maintenance in accordance with product specifications for ten years from date of purchase. The complete text of this warranty is available on our website, www.cablerail.com.

FEENEY ARCHITECTURAL PRODUCTS ■ OAKLAND, CALIFORNIA

AVAILABLE AT:

CABLE ASSEMBLY CARE & MAINTENANCE

The protective chromium oxide film on the surface of stainless steel gives it superior corrosion resistance. Properly maintained stainless steel provides excellent luster, strength and durability. In most applications, stainless steel won't rust or stain even after years of service, but it's NOT rust or stain proof. When stainless comes in contact with chloride salts, sulfides or other rusting metals, it can discolor or even rust and corrode. With proper care and maintenance, however, stainless steel can remain beautiful and functional for years to come, even when it's exposed to marine environments, polluted surroundings, salted highways, or other corrosive elements.

- Clean stainless with soap and warm water. Never clean with mineral acids or bleaches.
- Never use coarse abrasives like sandpaper or steel wool on stainless. Use synthetic Scotch pads instead.
- Never leave stainless in contact with iron, steel or other metals. This can cause rust spots or corrosion.
- Periodically inspect cable assemblies for proper tension and re-tension as necessary. This is important.
- Always remove stains or rust spots as soon as possible with either soap and water or a brass, silver, stainless or chrome cleaner.