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

King Architectural Metals

Standard Cable Assemblies

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feeney makes it easy
Easy-to-install, prefabricated cable assemblies are an attractive, budget-friendly, and low-maintenance alternative to commonly used metal and wood picket infill. Assemblies use high-strength, weather-tough type 316 stainless steel cable and come in a wide range of standard lengths that can be quickly trimmed to size in the field. Each assembly includes special, easy-to-use Threaded Terminal and Quick-Connect® SS end fittings that remain concealed in your end posts. The result: an extremely durable, virtually invisible railing infill that leaves the view open and unimpaired.

Our special end fittings make cable installations quicker & easier than ever.

The stainless 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, cut off the excess, and finish with an End Cap.

Sizes: 3/8" OD x 1-1/4" L for 1/8" cable, 17/32" OD x 1-3/4" L for 3/16" cable.

The Cable is 1x19 construction, type 316 stainless steel for strength, durability, and weather protection. Cables come in standard assembly lengths from 5 feet to 70 feet.

Sizes: 1/8" and 3/16" diameter.

Snug-Grip® Washer-Nut and Flat Washers are all included. Colored and Stainless End Caps are also available to cover, protect, and finish both ends (caps sold separately).

The stainless Threaded Terminal fitting is fastened (swaged) to one end of the cable at the factory. Attach it to an end post using a special Snug-Grip® Washer-Nut and spin the nut to adjust final tension in the line. Finish with an End Cap.

Sizes: 1/4" x 4-1/4" length for metal posts, 1/4" x 7-1/2" length for wood posts (special order).

CableRail Assemblies are designed to be used on your own wood or metal frames in either interior or exterior settings.
Installing the Standard Cable System is easy. Just follow these simple steps:

1. 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.

2. Drill holes in posts. Hole size depends on cable size, fitting type and whether Isolation Bushings (optional) are used. See drill hole chart below.
   If desired the Quick-Connect® posts may be through-drilled at 1/4" and then counter-bored with the recommended Quick-Connect® drill to countersink the fitting.

3. Insert the Threaded Terminal through the Terminal end post and attach a flat washer and Snug-Grip® Washer-Nut. Spin nut so the threads engage (2-3 full turns).
   For angled terminations, use Beveled Washers. See Special Parts section below.

4. Lace the free end of the cable through the Intermediate posts and Quick-Connect® end post. Slide-on a flat washer and Quick-Connect® fitting until they rest against the face of the post.
   Use a Lacing Needle if snagging becomes a problem.

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

6. Tension the cables by holding the Threaded Terminal shaft with Vise-Grip pliers and spinning the Snug-Grip® washer-nuts with a wrench.
   A Feeney Tension Gauge may be used to check uniform tension. See tensioning sequence diagram at left.

7. Use hacksaw, reciprocating saw, or electric grinder with cut-off disk to 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.

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

9. Snap on end caps over the exposed Quick-Connect® fittings and the Snug-Grip® washer-nuts. You’re done.

Special parts for special situations

Recommended cable tensioning sequence

If not using Bushings
<table>
<thead>
<tr>
<th>1/8&quot; Cable</th>
<th>3/16&quot; Cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threaded Terminal</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>Intermediate Post</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>Quick-Connect® Post</td>
<td>5/32&quot;</td>
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<td>Quick-Connect® Post</td>
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</table>

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.

Cables can either terminate or run through corner posts

- WOOD POSTS
  - DOUBLE PIPE
  - ANGLE IRON
  - DOUBLE FLAT BAR
- SINGLE PIPE
  - DOUBLE PIPE
  - ANGLE IRON
  - DOUBLE FLAT BAR

Terminating
OFFSET DRILL HOLES AT LEAST 1/2"
Railing Frame Requirements

Frames need to support the tension of properly installed cables. They need to be designed and built strong enough for the end and corner posts to support a load of approximately 300 lbs for each cable. Here are some basic guidelines to help you prepare your railing frames for cable infill.

Minimum Post Sizes

**End and Corner Posts:** The end and corner posts are the cable termination/transition posts and support the full load of the taut cables; therefore, we recommend the following post sizes.

- **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

**Intermediate Posts:** The remaining intermediate posts do not support any tension load since the cables pass straight through, so they can be sized as required for cap rail support or for code.

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.

**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 (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 Blocking (Wood Frames Only):**
Underneath the cap rail attach minimum 1”x 4” 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.

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, 1/4” flat bar, or Feeney Intermediate Pickets. Attach spacers 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.

For complete details on railing frame requirements, please visit www.feeyninc.com/cablerail

**Important Note**
Since building codes vary by state, county, and city, following these guidelines may not ensure code compliance in all areas. Please consult with your local building department before starting your cable project.
Cable Assemblies & Accessories

Everything you need for your basic cable project is listed on this page. Choose your assembly lengths, a preferred style of end cap, accessory items, and you’re good to go.

Each assembly includes the selected length of stainless steel cable with a 4-1/4" long Threaded Terminal fitting pre-attached to one end, one stainless steel Quick-Connect®SS fitting, two nylon flat washers, and one stainless steel Snug-Grip® washer-nut.

Note: assemblies with 7-1/2" long Threaded Terminals for wood railing frames are available as special order items.

Select a preferred end cap style to cover, protect, and finish each end. End caps sold separately.

Polyethylene: five colors to choose from.

Stainless steel: three style options.

STAINLESS PROTECTOR SLEEVES
(wood posts only) For protecting corner and stairway transition posts from cable abrasion. Sold 10 per package. Fits 1/8" & 3/16" cable.
52-3210 1/4"OD x 7/8" long, fits 1/4" diameter drill holes

ISOLATION BUSHINGS
(metal posts only) For isolating cable and fittings from metal post holes to minimize electrolysis in areas with salt air. Made from a durable engineered polymer. Use silicone sealant to secure in post holes. Sold individually.
52-1100 For 1/8" Quick-Connect®SS, fits 15/32" hole
52-1101 For 1/8" Cable, fits 1/4" hole
52-1102 For 1/8" Threaded Terminal, fits 5/16" hole
52-1103 For 3/16" Quick-Connect®SS, fits 5/8" hole
52-1104 For 3/16" Cable, fits 5/16" hole
52-1105 For 3/16" Threaded Terminal, fits 15/32" hole

STAINLESS BEVELED WASHERS
For providing a flat bearing surface when attaching fittings at angled stair terminations. 52-3792 For 1/8" Quick-Connect®SS ends (3/8"ID x 3/4"OD, sold 4 per package)
52-3798 For 3/16" Quick-Connect®SS ends (9/16"ID x 3/4"OD, sold individually)
52-3799 For Threaded Terminal ends (9/32"ID x 3/4"OD, sold 4 per package)

CABLE CUTTERS
For shearing excess cable. Sold 1 per package.
52-2972 8" long, cuts up to 1/8" cable
52-2971 13" long, cuts up to 1/4" cable

CABLE LACING NEEDLE
For quickly lacing cable ends through posts without snagging. Sold 1 per package.
52-3221 For 1/8" cable, 4-1/2" long, reusable
52-3222 For 3/16" cable, 4-1/2" long, reusable

FEENEY TENSION GAUGE
Easy to use tool for checking cable tension. Sold 1 per package.
52-6004 Designed for 1/8" and 3/16" CableRail cable.

QUICK-CONNECT® RELEASE TOOL
For temporarily releasing the jaws of the Quick-Connect®SS fitting to remove or adjust the position. Sold 1 per package.
52-3128 For 1/8" cable, reusable
52-3158 For 3/16" cable, reusable

FEENEY INTERMEDIATE PICKETS
Slender, low-maintenance, and time-saving vertical spacer option for wood railing frames. Made from powder coated aluminum and pre-drilled at 3" spacing for 1/8" CableRail cables. Slotted holes on the stair pickets will accommodate a stairway slope of between 20 and 45 degrees. Can be trimmed to fit railings up to 42" high. Includes all base plates and attachment screws. For 1/8" cable only. Silver color.
52-7648 Level rail picket, 3/4" square x 44" long
52-7649 Stair rail picket, 3/4" square x 46" long

STAINLESS END CAPS
Sold 4 per package.
52-3372 Dome Style, 3/4"OD x 3/8"H
52-3373 Crown Style, 3/4"OD x 3/8"H
52-3374 Chamfer Style, 3/4"OD x 3/8"H

COLORED END CAPS (POLYETHYLENE)
Sold 10 per package.
52-7071 Black, 3/4"OD x 3/8"H
52-7072 White, 3/4"OD x 3/8"H
52-7073 Brown, 3/4"OD x 3/8"H
52-7074 Gray, 3/4"OD x 3/8"H
52-7077 Bronze, 3/4"OD x 3/8"H

CABLE ASSEMBLIES & ACCESSORIES
Everything you need for your basic cable project is listed on this page.
Choose your assembly lengths, a preferred style of end cap, accessory items, and you’re good to go.

CableRail Assembly 1/8" Lengths 3/16" Lengths
5' 52-6205 52-6705
10' 52-6210 52-6710
15' 52-6215 52-6715
20' 52-6220 52-6720
25' 52-6225 52-6725
30' 52-6230 52-6730
35' 52-6235 52-6735
40' 52-6240 52-6740
45' 52-6245 52-6745
50' 52-6250 52-6750
55' 52-6255 52-6755
60' 52-6260 52-6760
65' 52-6265 52-6765
70' 52-6270 52-6770
DETERMINING WHAT YOU’LL NEED

1. Carefully Review: Read all of the product description, installation instructions, and frame recommendation pages in this brochure. Also visit www.feeneyinc.com/cablerail.

2. Section Frames: Divide your railing frame into sections by determining which corner and end posts will be the cable termination posts. Remember that straight runs should not exceed 70 feet and runs with bends (2 corner bends at most) should not exceed 40 feet.

3. Determine Lengths: Measure the outside lengths of each of your sections from step 2 and select the cable assembly lengths that will fit each section. Be sure that the assemblies are at least 1 foot longer than the length of the section.

4. Calculate Quantities: The number of assemblies depends on your railing design. Remembering that each horizontal cable is a separate assembly and that the cables should not be spaced further than 3 inches apart, calculate the quantities needed for each of your assembly lengths.

5. Check Accessories & Tools: Count up all the end caps, protector sleeves, beveled washers, cutters, facing needles, drills, saws, and abrasive disks you may need (see Tools Check List on the Installation Instruction page).

6. Fill Your Order: Contact your CableRail dealer.

CHECK THE CableRail ADVANTAGES

- Attractive, affordable, and very low maintenance.
- Invisible appearance will not impair views.
- Made from strong and weather-tough type 316 stainless steel cable.
- Can be used on new or existing wood or metal railing frames.
- Simple, fast, do-it-yourself installation using prefabricated assemblies.
- Special easy-to-use fittings are hidden in the end posts.
- Made from over 70% recycled materials.
- Versatile uses: railings, trellises, fences, exterior, interior, residential, commercial.

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 upon request.

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 will not rust or stain even after many years of service, but it is 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.

- 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.
- Always remove stains or rust spots as soon as possible with either soap and water or a brass, silver, stainless, or chrome cleaner.
- Periodically inspect cable assemblies for proper tension and re-tension as necessary. This is important.

AVAILABLE AT:

KING ARCHITECTURAL METALS
800-542-2379
WWW.KINGMETALS.COM

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