Cable Railing Kit Application Guide

For Wood Posts and Wood Posts with Composite Sleeves

March 1, 2017
Framework You Will Need for Cable Railing

End Post Construction
Since hundreds of pounds of tension is being applied to end posts using cable railing, those posts must be substantial enough to handle that tension.
For wood posts a minimum 4x4 post is required to keep the post from bending when the cables are tensioned. You will need a top rail, and we recommend that it be reinforced with a support such as a 2x4 on end under the top rail (see illustration at right). End posts must be securely mounted to the deck to prevent the post from coming loose when the cables are tensioned. A bottom rail helps distribute the force away from the bottom of the post, but is not required.
Of course, secure mounting of the intermediate posts to the deck is just as important as with end posts.

Intermediate posts between end and corner posts
To keep the cable from spreading beyond IBC code requirements, we recommend that the cable be supported in some manner no more than every 48” along its run. Intermediate posts, through which the cable is strung, act as supports for the cable. To avoid having to use more intermediate posts than is structurally necessary, a thin metal cable brace with holes for the cables to pass through can be used to support the cables (see illustrations). A typical cable brace is either 3/4” x 3/4” aluminum tube or 1/4” thick by 1” wide stainless steel flat bar and is ordered separately.

Cable spacing on your posts
We recommend that you space the cables with no more than a 3” clear span between the cables (see illustrations). For example, if you are using 1/8” diameter cable, you would drill your holes on center no more than 3-1/8” apart.
Your Deck Type

Decks come in all shapes and sizes, but there are only a few types of cable runs that go on those decks: face-mounted, face-mounted to through-the-post, and through-the-post. The following illustrations represent several ways you can run cable on your deck. Every run will require a fitting that will act to tension the cable once installed. Depending on the length of the run, the tensioning device in the kit, and whether you plan to bend the cable through a corner, you will either be able to use a non-tensioning Push-Lock® or Pull-Lock® on the other end or you will need to use a Push-Lock tensioner on the other end.

The VIP Run
You will see that Run #1 on each drawing is the “view run” — the one that is most important, most visible of all your runs. It’s the one on which you want to have the least interference with the view, so you always start with that run and build around it.
A Closer Look at Corner Posts

Where Two Cable Runs Intersect

While you can offset cables on intersecting runs to use less expensive fittings, most people want all their cables to exist on the same plane, to give the impression that cables are continuous.

Ultra-tec® fittings are designed to be able to reside within the same post in many configurations. Below are some examples of how your kit components work together.

Continuing a Cable Run Through a Corner

When taking cable railing through a corner, do not bend the cable past 45° at any time. If turning 90°, a 2-step turn using a double corner post configuration is required, as illustrated. For wood frame cable runs with up to 90° of turn, kits with single tensioners are sufficient. If going through corners totaling more than 90°, you will want to use a kit with tensioners at both ends.

Corners require two posts because the cable itself, being rigid, will not cooperate in bending cleanly through a single post. When you go through a corner post, you will need to prevent the cable from slicing into the wood as it exits the post on an angle by using a post protector tube.
Kit Assemblies at a Glance for Wood Posts

For level runs:
102 Series (both ends through-the-post)
   Threaded Stud to Pull-Lock®.
262 Series (through-the-post)
   3½” Invisiware® Receiver to Pull-Lock®.
272 Series (through-the-post)
   3½” Invisiware® Receiver to
   2.3” Receiver with Push-Lock® Stud.
601 Series (face-mount to through-the-post)
   3½” Invisiware® Receiver to
   Push-Lock® Lag.
672 Series (face-mount to through-the-post)
   Adjust-a-Body® with Hanger Bolt to
   1½” Receiver with Push-Lock® Stud.
300 Series (face-mount)
   Adjust-a-Body® with Hanger Bolt to
   Push-Lock® Lag.
371 Series (face-mount)
   Adjust-a-Body® with Hanger Bolt to
   Push-Lock® Turnbuckle with
   Hanger Bolt.

For stairs, pitched runs:
102 Series (both ends through-the-post)
   Threaded stud to Pull-Lock®.
   Post Protector Tubes used
   on both ends.
262 Series (through-the-post)
   Invisiware® Receiver to Pull-Lock®,
   using a Post Protector Tube.
500-W Series (face-mount)
   Push-Lock® with Threaded Eye and
   Lag Eye to Adjust-a-Body® with
   Threaded Eye and Lag Eye.

Kit Assemblies for Wood Posts with Composite Sleeves

For level runs using wood posts with composite sleeves (with an outside diameter greater than 4½”):
300-C Series (face-mount)
   Adjust-a-Body® with Extended Length
   Hanger Bolt to Push-Lock® Lag.

For stairs using wood posts with composite sleeves:
500-C Series (face-mount)
   Adjust-a-Body® with Threaded Eye
   and Extended Length Lag Eye to
   Push-Lock® with Threaded Eye and
   Extended Length Lag Eye.

Warranty: Stainless steel hardware and cable are covered by a limited warranty for a period of ten (10) years from the date of receipt to be free from defects due to defective materials and workmanship.
For complete warranty details, please visit http://thecableconnection.com/warranty-ultra-tec.html
Decks 1 and 2 have dedicated end posts for each run, and the posts are situated such that the back side of the posts are all accessible, meaning you can use a through-the-post configuration for all runs. This is both the most economical solution and where the fittings are least visible.

**Use the 262 Series.**
The tensioning device is a 3½” long Invisiware® Receiver, which installs through the wood post on one end. A Pull-Lock® fitting is installed through the other end.

### Series 262 Kits

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>1/8” cable</th>
<th>3/16” cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>5’</td>
<td>26205</td>
<td>26205-6</td>
</tr>
<tr>
<td>10’</td>
<td>26210</td>
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</tr>
<tr>
<td>50’</td>
<td>26250</td>
<td>26250-6</td>
</tr>
</tbody>
</table>

When going around two corners, it’s necessary to tension the cable from both ends as shown in Deck 3.

### Cable Runs through Two Corners

**Use the 272 Series.**
The tensioning devices are a 3½” long Invisiware® Receiver, which installs through the post on one end, and a Push-Lock® Stud on the other end, which is threaded into a 2.3” long Receiver.

### Series 272 Kits

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>1/8” cable</th>
<th>3/16” cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>30”</td>
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<tr>
<td>40”</td>
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</tr>
<tr>
<td>60”</td>
<td>27260</td>
<td>27260-6</td>
</tr>
</tbody>
</table>

Tools needed for 262 and 272 Series:
- 5/32 drill bit if 1/8” cable, 7/32 if 3/16” cable
- 29/64 drill bit for Receiver and Pull-Lock® installation
- 3/16 hex wrench for tensioning Receiver
- Cable cutting tool
- If using Post Protector Tubes, 1/4 drill bit
- If 272 Series, 3/8 wrench for Push-Lock® Stud
A through-the-post configuration is the only scenario in which the economical threaded stud kits may be used. The threaded stud kits are even more economical than the 200 series, but the threaded studs are a basic, functional fitting, not a hide-in-the-post solution. A brass hex nut and some metal thread (both covered by an end cap [CAP-S/S]) will extend beyond the back of the post on one end. A Pull-Lock® fitting is installed through the other end.

Use the 102 Series.
The tensioning device is a 2-7/8" long threaded stud which installs on the back side of one end post, as shown in Deck 1.

When taking cable railing through a corner, do not bend the cable past 45⁰ at any one time. If turning 90⁰, a 2-step turn using a double corner post configuration is required, using post protector tubes where the cable enters/exits the post at an angle to keep the cable from biting into the wood.

Tools needed for 102 Series:
- 5/32 drill bit if 1/8" cable, 7/32 if 3/16" cable
- 9/32 drill bit for threaded stud installation
- 29/64 drill bit for Pull-Lock® installation
- 1/8 hex wrench for holding the stud
- 7/16 wrench for tightening hex nut
- Cable cutting tool
- If using post protector tubes, 1/4 drill bit

Optional Cap for Threaded Stud
Finish the look of your 102 Kit cable runs with our stainless steel cap to cover the brass locknut.
Order one CAP-S/S for each locknut.
Face Mount to Through-the-Post Mount

Straight Cable Runs and Cable Runs through One Corner

Deck 1 has dedicated end posts, but the posts next to the house are too close to access the back side of the posts. Run #1 is through the post, so it will take a Series 262 kit. However, for Runs #2 and #3, you will attach to the face of the posts next to the house and run through the post at the other end.

Deck 2 has shared corner posts, but the posts next to the house are placed such that the back side of the posts are accessible, so for Runs #2 and #3, you will attach to the face of the corner posts and run through the post next to the house.

Deck 3 illustrates how the 601 series can also be used to go around a single corner up to 90°.

Use the 601 Series
The tensioning device is a 3½" long Invisiware® Receiver, which installs through the wood post on one end. A Push-Lock® Lag is lagged into the other end.

<table>
<thead>
<tr>
<th>Series 601 Kits</th>
<th>Cable Length</th>
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</tr>
<tr>
<td>50&quot;</td>
<td>60150</td>
<td>60150-6</td>
<td></td>
</tr>
</tbody>
</table>

Tools needed for 601 Series:
5/32 drill bit if 1/8" cable, 7/32 if 3/16" cable
29/64 drill bit for Receiver installation
3/16 hex wrench for tensioning Receiver
7/16 wrench for tightening Push-Lock® Lag
Cable cutting tool
If using Post Protector Tubes, 1/4 drill bit
Face Mount to Through-the-Post Mount

Cable Runs through Two Corners

When going around two corners, it’s necessary to tension the cable from both ends as shown in Deck 4.

Use the 672 series

The tensioning devices are an Adjust-a-Body® with Hanger Bolt which lags into the wood post on one end, and a 1-1/2” long Receiver with Push-Lock® Stud on the other end.

Tools needed for 672 Series:

- 5/32 drill bit if 1/8” cable, 7/32 if 3/16” cable
- 29/64 drill bit for Receiver installation
- 3/16 hex wrench for tensioning Receiver
- 3/8 hex wrench for turning hanger bolt
- 7/16 wrench to tension Adjust-a-Body®
- 3/8 wrench for Push-Lock® Stud
- Cable cutting tool

If using Post Protector Tubes, 1/4 drill bit

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>1/8” cable PART NO.</th>
<th>1/8” cable PART NO.</th>
<th>1/8” cable PART NO.</th>
<th>1/8” cable PART NO.</th>
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Series 672 Kits

Cable runs through two corners

For Post Protector Tubes, see Tools and Essentials section.
Deck 1 has only one end post at the corners. The posts next to the house butt right up to it so the back sides of those posts are not accessible. Run #1 is still through the post, so it will take a Series 262 kit. Runs #2 and #3 connect to the face of the corner post going back toward the house to keep the cables on the same plane. They also connect to the face of the posts next to the house as well.

**Use the 300 Series.**  
The tensioning device is an Adjust-a-Body® with Hanger Bolt, which lags into the wood post on one end. A Push-Lock® Lag is lagged into the other end.

### Tools needed for 300 Series:
- 5/32 drill bit if 1/8” cable, 7/32 if 3/16” cable
- 7/32 drill bit for hanger bolt and lag installation
- 3/8 hex wrench for turning hanger bolt
- 7/16 wrench for tensioning Adjust-a-Body®
- 3/8 wrench for installing Push-Lock® Lag
- Cable cutting tool
- If using post protector tubes, 1/4 drill bit

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### Series 300 Kits

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>1/8” cable</th>
<th>3/16” cable</th>
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</thead>
<tbody>
<tr>
<td>5’</td>
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<tr>
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</tr>
<tr>
<td>50’</td>
<td>30050</td>
<td>30050-6</td>
</tr>
</tbody>
</table>
Cable Runs through Two Corners

When going around two corners, it’s necessary to tension the cable from both ends as shown in Deck 3.

Use the 371 Series.
The tensioning devices are an Adjust-a-Body® with Hanger Bolt, which lags into the wood post on one end, and Push-Lock® Turnbuckle with Hanger Bolt on the other end.

House

Deck 3

For Post Protector Tubes, see Tools and Essentials section.

Tools needed for 371 Series:
5/32 drill bit if 1/8” cable, 7/32 if 3/16” cable
3/8 hex wrench for turning hanger bolts
Two 7/16 wrenches for tensioning Adjust-a-Body® and tightening Push-Lock® Turnbuckle
3/8 wrench for Push-Lock® Stud
Cable cutting tool
If using Post Protector Tubes, 1/4 drill bit

Series 371 Kits

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>1/8” cable</th>
<th>3/16” cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>30’</td>
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</tr>
<tr>
<td>60’</td>
<td>37160</td>
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</tbody>
</table>
Through-the-Post Mount

Cable Runs on a Pitch

The cleanest approach to running cable on a pitch is to drill through both end both posts on the square (NOT at the angle of the stairs). No beveled washers necessary. Only intermediate posts need to be drilled on the angle of the stairs.

Use the 262 Series.
The tensioning device is a 3½” long Invisiware® Receiver, which installs through the wood post on one end. A Pull-Lock® fitting is installed through the other end with a post protector tube (CS-TUBE, ordered separately).
The 262 Series can be used to go up a stair and across a landing by inserting post protector tubes in the break-over post. The tube will prevent the cable from carving a groove into your post where it exits at an angle.

Series 262 Kits for Wood Posts

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>1/8” cable PART NO.</th>
<th>3/16” cable PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5’</td>
<td>26205</td>
<td>26205-6</td>
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<tr>
<td>10’</td>
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<tr>
<td>15’</td>
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</tr>
<tr>
<td>50’</td>
<td>26250</td>
<td>26250-6</td>
</tr>
</tbody>
</table>

Order post protector tubes separately, see Tools and Essentials section.

Tools needed for 262 Series on stairs:
5/32 drill bit if 1/8” cable, 7/32 if 3/16” cable
29/64 drill bit for Receiver and Pull-Lock® installation
3/16 hex wrench for tensioning Receiver
Cable cutting tool
1/4 drill bit for Post Protector Tube
Through-the-Post Mount

Cable Runs on a Pitch

Use the 102 Series.
The tensioning device is a 2-7/8" long threaded stud which installs on the back side of one end post. A brass hex nut and some metal thread (both covered by an end cap [CAP-S/S]) will extend beyond the back of the post on one end. A Pull-Lock® fitting is installed through the other end. The 102 Series can also be used in a stair-to-landing application with post protector tubes.

Tools needed for 102 Series:
- 5/32 drill bit if 1/8" cable, 7/32 if 3/16" cable
- 9/32 drill bit for threaded stud installation
- 29/64 drill bit for Pull-Lock® installation
- 1/8 hex wrench for holding the stud
- 7/16 wrench for tightening jam nuts
- Cable cutting tool
- If using post protector tubes, 1/4 drill bit

Optional Cap for Threaded Stud
Finish the look of your 102 Kit cable runs with our stainless steel cap to cover the brass locknut.
Order one CAP-S/S for each locknut.

<table>
<thead>
<tr>
<th>Series 102 Kits</th>
<th>Cable Length</th>
<th>1/8&quot; cable</th>
<th>3/16&quot; cable</th>
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<td>PART NO.</td>
<td>PART NO.</td>
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<tr>
<td>50'</td>
<td>10250</td>
<td>10250-6</td>
<td></td>
</tr>
</tbody>
</table>
Face Mount

Cable Runs on a Pitch

Top posts are often corner posts, which may require the stair run to connect to the face of the post. The top and bottom of the cable run would be connected perpendicular to those posts, and only the intermediate posts would be drilled on the angle for the cable to run through.

Use the 500-W Series.
The tensioning device is an Adjust-a-Body® with Threaded Eye, which attaches via mounting screw to the lag eye. A Push-Lock® with Threaded Eye attaches the same way to the other end.
The 500-W Series can be used to go up a stair and across a landing by inserting post protector tubes (order CS-TUBE separately) in the break-over post. The tube will prevent the cable from carving a groove into your post where it exits at an angle.

Tools needed for 500-W Series:
5/32 drill bit if 1/8” cable, 7/32 if 3/16” cable
9/32 drill bit for Lag Eye installation
7/16 wrench for tensioning Adjust-a-Body®
5/32 hex wrench to tighten mounting screws
Cable cutting tool
If using Post Protector Tubes, 1/4 drill bit
Straight Cable Runs Only

Decks 1 and 2 have wood posts with composite sleeves. For sleeved posts, the recommended approach is face-mounted to prevent damage to the sleeves themselves. Since sleeves can be easily damaged, there is no bending of the cable through corners. Each run must be start and stop. All three runs use the same kit.

**Use the 300 and 300-C Series:**

*If the outside diameter of the composite sleeve is 4½" or less, use the 300 Series.*

The tensioning device is an Adjust-a-Body® with Hanger Bolt, which lags into the wood post on one end. A Push-Lock® Lag is lagged into the other end.

*If the outside diameter of the composite sleeve is greater than 4½”, use the 300-C Series.*

The fittings are the same as in the 300 Series, with extended length hanger bolt and lag respectively.

**Series 300-C Kits**

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>1/8” Cable</th>
<th>3/16” Cable</th>
</tr>
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<tbody>
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<tr>
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</tbody>
</table>

**Tools needed for 300-C:**

- 5/32 drill bit if 1/8” cable, 7/32 if 3/16” cable
- 7/32 drill bit for hanger bolt and lag installation
- 1/4 wrench for turning hanger bolt
- 7/16 wrench for tensioning Adjust-a-Body®
- 3/8 wrench for installing Push-Lock® Lag
- Cable cutting tool
**Face Mount**

**Sleved Posts**

### Cable Runs on a Pitch

Top posts are often corner posts, which may require the stair run to connect to the face of the post. The top and bottom of the cable run would be connected perpendicular to those posts, and only the intermediate posts would be drilled on the angle for the cable to run through.

Use the 500-C Series for wood posts with composite sleeves with an outside diameter greater than 4½". The tensioning device is an Adjust-a-Body® with Threaded Eye, which attaches via mounting screw to the extended length lag eye. A Push-Lock® with Threaded Eye attaches the same way to the other end. As it is not recommended to bend cable through a sleeved post, stair to landing for sleeved posts would be two separate runs.

### Tools needed for 500-C Series:
- 5/32 drill bit if 1/8" cable, 7/32 if 3/16" cable
- 9/32 drill bit for Lag Eye installation
- 7/16 wrench for tensioning Adjust-a-Body®
- 5/32 hex wrench to tighten mounting screws
- Cable cutting tool

### Series 500-C Kits for Wood Posts with Composite Sleeves

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>1/8&quot; cable</th>
<th>3/16&quot; cable</th>
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</thead>
<tbody>
<tr>
<td>PART NO.</td>
<td>PART NO.</td>
<td></td>
</tr>
<tr>
<td>5’</td>
<td>50005-C</td>
<td>50005-6C</td>
</tr>
<tr>
<td>10’</td>
<td>50010-C</td>
<td>50010-6C</td>
</tr>
<tr>
<td>15’</td>
<td>50015-C</td>
<td>50015-6C</td>
</tr>
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</tr>
<tr>
<td>50’</td>
<td>50050-C</td>
<td>50050-6C</td>
</tr>
</tbody>
</table>
Tools and Essentials

Stainless Steel Cable Brace
1/4" x 1" in 2 lengths, for 36" and 42" high rails. Holes pre-drilled at 3-1/8" on center, 10 holes in short length, 12 in long. For use between structural posts to keep cables code-compliant on level runs. Weld to metal frames; use cable brace floor plates for attaching to wood.
Order CB-34.5-SS-10 or CB-40.5-SS-12

Stainless Steel Cable Brace for Stairs
1/4" x 1" in 2 lengths, for 36" and 42" high rails. Slots pre-drilled at 3-1/8" on center, 10 slots in short length, 12 in long. For use between structural posts to keep cables code-compliant on stair runs. Weld to metal frames; use cable brace floor plates for attaching to wood. Must be field-chamfered to match stair angle.
Order CBS-34.5-SS-10 or CBS-40.5-SS-12

Stainless Steel Cable Brace Floor Plate
For mounting cable braces to top or bottom rail or deck. 2-1/4" x 1-1/4" x 1-1/4", #4 Finish Stainless Steel.
Order FLP-CBS

Cut-off Tool
Used to cut cable flush with the end of Pull-Lock® fittings, and to cut excess threads off stud-type tensioners. Includes mandrel and two cut-off wheels.
Order CUT-OFF KIT

Cable Cutter
For burr-free cutting of cable.
Order C-7HIT for light-duty use to cut 1/8"

Cable Release
For 1/8" Push-and Pull-Locks® only. Releases cable from Push-Lock® and Pull-type fittings before cables are tensioned.
Order PL-KEY

Anodized Aluminum Cable Brace
3/4" x 3/4" tube, 42" long for cutting down to any size rail height. Holes pre-drilled at 3-1/8" on center, 13 holes total. For use between structural posts to keep cables code compliant on level runs. Use cable brace plugs to attach to top and bottom rail or deck.
Order CB-42-AN-AL-13-P

Black Aluminum Cable Brace
Order CB-42-BL-AL-13-P

Anodized Aluminum Cable Brace for Stairs
3/4" x 3/4" tube, 42" long for cutting down to any size rail height. Comes undrilled so slots can be field-drilled to match cable array.
Order CB-42-AN-AL-P

Black Aluminum Cable Brace for Stairs
Order CB-42-BL-AL-P

Stainless Steel Post Protector Tube
The post protector tube is inserted into a wood post where the cable enters/ exits the post at an angle to keep the cable from biting into the wood.
Order CS-TUBE

Cable Tension Gauges
Check the tension on your cables with these easy-to-use gauges.
Order PT-CR for cable diameter of 1/8", 3/16" and 1/4"

Optional Cap for Threaded Stud
Finish the look of your 102 Kit cable runs with our stainless steel cap to cover the brass locknut. Order one CAP-S/S for each locknut.

Stainless Steel Cleaner and Protectant
Dissolve minor corrosion, then leave a protective coating that lasts for months. Includes an 8-oz. spray-on rust and stain remover and a 4-oz. bottle of protectant.
Order E-Z Clean
Your Project

Make a bird’s eye drawing of your project. Include railing lengths, end and corner post locations, stairs and any angles/turns your railing takes. Please include the following:

✓ What size post?
✓ What material (wood/composite sleeve)?
✓ If composite sleeve, what is the outside diameter when installed?
✓ What is the height of the railing?
✓ Are you using a bottom rail?
✓ Are you using single posts at corners or a double post configuration?
✓ Do you have 3-1/2” of space behind end posts to allow for installation of Receivers and Pull-Locks®?
✓ What diameter cable are you using (1/8” or 3/16”)?

Ultra-tec® Cable Railing products are available through:

Looking for your nearest source for Ultra-tec® Cable Railing Kits?
Visit our Website: http://thecableconnection.com/wholesalers.html or scan this QR code with your smartphone.
You will be directed to building supply dealers in your state or to the wholesaler that can point you to a participating local dealer.