CABLE RAIL



Ready to Install Cable Assemblies

Includes one Invisiware® with **Swaged Threaded Ferrule** tensioning end and one **Pull-Lock**™ fixed end. Install the Cable and field trim after tensioning.

CABLE ASSEMBLIES INCLUDE:

- Fittings for both ends of your Cable run
- 3/16" Diameter, Type 316 Stainless Steel Cable
- All Washers and Fasteners necessary
- Instructions



Los Angeles 818-729-3333

Inland Empire 951-300-9900

Orange County 949-250-3343

San Diego 858-277-8200

Phoenix 602-454-1500

Tucson 520-441-5161

Field installed Pull-Lock fittings make installing cables easy.

No field swaging

Pull-Lock fittings are designed for use with 1 x 19 left-hand-lay strand only.

Easy to install

1. Insert the Invisiware Receiver with Swaged Threaded Ferrule on one End Post.

2. Slip the Pull-Lock fitting into the other

End Post and pull the Cable all the way through the Pull-Lock fitting.

3. Tension the Cable then cut the excess Cable off on the back side of the fitting with a 4" right angle grinder or a cutting wheel (CRCUTOFFKIT)

used with a hand drill.

4. Press on the stainless steel cap to cover the bare Cable end, and you're done!

Cable Assembly shown with Invisiware Receiver and Push-Lock Stud.



How to Order: Determine your Railing frame materials

wood or metal – and the width or diameter of your End Post –
 Posts to which tensioning and other mounting hardware will be attached.

Measure the length of each Cable run:

- Add at least 6 inches to your measurement.
- Order the assemblies in Cable length increments of 10, 20 or 30 feet – to provide sufficient Cable for each of your Cable runs.

Cable will be cut to proper length on site.

Order Cable Cutter and other tools separately - as required.

200 SERIES CABLE ASSEMBLIES Invisware® Receiver with Pull-Lock™

Outside to Outside Mount. Use on straight runs.

- Slide the Invisiware Receiver with Cable into one End Post

 be sure to leave several threads of the Threaded Ferrule
 visible so that you have ability to tension.
- Install the Pull-Lock Fitting on the other end.
- Insert Cable into and through Pull-Lock.
- Cut Cable to length using CRCUTOFFKIT.
- Tension the Cable using a hex wrench in the slot in the cap of the Receiver.
- Cap cut end of Cable.

3/16" Cable Pull-Lock with 2" Long Invisiware Receiver

	upe 316, tainless Steel	Length
(CR2326-10	10'
(CR2326-20	20'
-	CR2326-30	30'

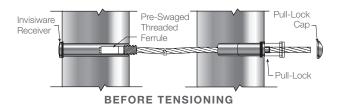




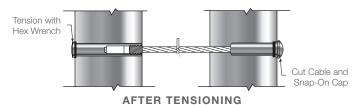
Pull-Lock Invisiware Install Video Install Video



Make sure half of the Threaded Ferrule's threads are visible so that there is enough draw in the Receiver to properly tension the Cable.



Tension the Cable at the Receiver end then trim cable and snapon cap.









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.

CABLE GRIPPING PLIERS

Locking Pliers with machined jaws to keep the Cable from turning and prevents damage to the Cable when Cable is being tensioned.

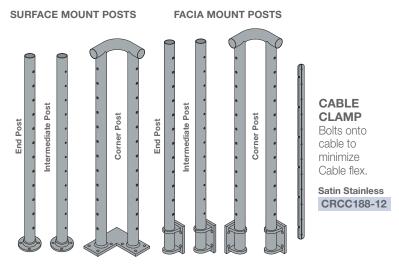
CABLE TENSIONING GAUGE

Check the tension on your Cables with this simple to use gauge.

Jawed Pliers				
Part Number	Part Number	Part Number		
CRCUTOFFKIT	CRJP	CRPTCR		

CABLE RAILING POSTS

Produced from 11/2" Schedule 40 Pipe – 1.90" Diameter with a .145" Wall. 42" Finished Height. Use Epoxy for connections to Tees and Elbows.



End Post	Ir Cable Clamp	ntermedia Post	te Cable Clamp	Corner Post
				0
				0
				0
				0

In order to meet load requirements, these Posts should be spaced 4 to 5 feet on center with a Cable Clamp inserted at the mid-point between Posts. With this configuration, Cables need to only be tensioned to 200 lbs. The system will only be as strong as the structure to which it is attached. You may need reinforcement in your existing structure to assure performance.

SATIN FINISH

POST TYPE	MOUNT	CABLE LINES	TYPE 304 STAINLESS STEEL		TEEL
Corner Post	Fascia Mount	12		CR190SS42CF	
Intermediate Post	Fascia Mount	12		CR190SS42LF	
End Post	Fascia Mount	12		CR190SS42EF	
Corner Post	Surface Mount	12		CR190SS42CS	
Intermediate Post	Surface Mount	12		CR190SS42LS	
End Post	Surface Mount	12		CR190SS42ES	

SNAP-ON COVER FLANGE

18 Gauge. 41/2" Diameter. Use to cover Flanges on Surface Mount Posts.

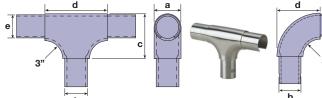
Satin Stainless

2077



CAST ELBOWS AND TEE

These cast Stainless Steel Fittings are designed to permit weld-free assembly of Wagnerail systems. Components are joined to Top Rail and Posts using Epoxy.



TEE

This Tee is used at the top of intermediate posts to transition the thinner walled 11/2" Schedule 5 Pipe into a 11/2" Schedule 40 Pipe Post. Use Epoxy for connections.

Pipe Size Satin Stainless 11/2" 1.610" 3.150" 4.440" 1.770" GR3190T

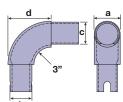


RAILING SPLICE

Aluminum for use with Stainless Steel.

Pipe Size Schedule Tube OD Tube ID Length Extruded Aluminum 11/2" 1.90" 1.78" GR3190S

Ribbed outer surface. Attach using Epoxy.





RADIUS POST ELBOW This Elbow is used to transition the thinner walled 11/2" Schedule 5 Pipe into a 11/2" Schedule 40 Pipe Post. Use Epoxy for connections.

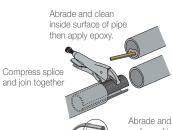
Pipe Size d Satin Stainless 11/2" 1.900" 1.610" 1.770" 3.150" GR3190PT



3M™ SCOTCH-WELD™ EPOXY

EPX100
EPX100R
EPX100P

- 1. Abrade the inside wall of the Pipe.
- The areas to be joined should be cleaned thoroughly.
- Mix 3M™ Scotch-Weld™ Epoxy according to package directions mix only enough that you can use within 1/2 hour.
- 4. Apply Epoxy to inside surface of Pipe.
- 5. Insert Splice Sleeve or Cast Elbow/Tee Splice into Pipe.
 - a. For Splice Sleeves, compress with lock-grip pliers then slip into the Pipe.
 - b. For Cast Elbow or Tee, abrade internal splice portion of fitting and slide into Pipe.
- 6. Wipe off excess Epoxy after components are properly joined.
- The areas connected together should be left undisturbed for eight hours longer in cold weather. Be sure to strap or bind components to eliminate movement. A Cable Assembly may be used for this purpose
- After Epoxy is set, install other Cables and tension to 200 lbs.



Abrade and clean outside surface of integrated sleeve on cast fittings then slide into pipe.