

Ultra-tec®

CABLE RAILING SYSTEMS



Beautiful railings using
stainless steel cable.

Available through:

AMERICAN STRUCTURES
& DESIGN inc

Tensioners

Ultra-tec® Receivers

Tensioning devices that are hidden inside the end post. When installed, only the head of the fitting is exposed on the outside of the post.



TYPE 316 STAINLESS STEEL

CABLE DIA.	"D"	"S"	FRAME OPTIONS — RECEIVER LENGTHS (L)							ALSO ORDER THREADED STUD PART NO.
			1-1/2" TUBE or 1-1/4" PIPE "L" = 1.562" PART NO.	1-1/2" PIPE "L" = 1.812" PART NO.	2" x 2" TUBE "L" = 2.030" PART NO.	2-3/8" TUBE "L" = 2.375" PART NO.	2" PIPE "L" = 2.301" PART NO.	3" TUBE "L" = 3.030" PART NO.	4" x 4" WOOD POST or 3-1/2" TUBE "L" = 3.5625" PART NO.	
1/8"	.437"	.537"	R-6-12	R-6-22	R-6-32	R-6-72	R-6-42	R-6-52	R-6-62	S-4
3/16"	.437"	.537"	R-6-12	R-6-22	R-6-32	R-6-72	R-6-42	R-6-52	R-6-62	S-6
1/4"	.531"	.646"	N.A.	R-8-22	R-8-32	N.A.	R-8-42	R-8-52	N.A.	S-8

Also available for cable diameters up to 3/8".

Adjust-A-Jaw® Tensioners

Attractive clevis-style, this tensioner is suitable for level runs or stairs. Attaches to the end post with a screw. See Invisiware® Threaded Tabs and Lag Eyes below for a convenient means of mounting to your end post.



TYPE 316 STAINLESS STEEL

CABLE DIA.	PART NO.	ALSO ORDER		"L"
		FERRULE PART NO.	SCREW PART NO.	
1/8"	A-J62	F-4	SC-6	3.125"
3/16"	A-J62	F-6	SC-6	3.125"
1/4"	A-J82	F-8	SC-8	3.500"

Also available for cable diameters up to 3/8".



Adjust-A-Body® with Threaded Eye Tensioners

Used on level runs or stairs. Attaches to the end post with a screw. Is less expensive than Adjust-A-Jaw® Tensioners. See Invisiware® Threaded Tabs and Lag Eyes below for a convenient means of mounting to your end post.

TYPE 316 STAINLESS STEEL

CABLE DIA.	PART NO.	ALSO ORDER		"L"
		FERRULE PART NO.	SCREW PART NO.	
1/8"	A-JTE6	F-4	SC-6	3.125"
3/16"	A-JTE6	F-6	SC-6	3.125"
1/4"	A-JTE8	F-8	SC-8	3.500"



Invisiware® Threaded Tab

Screws into a drilled and tapped hole in the end post. Clevis-style or threaded-eye type tensioner mounts to tab with screw.

TYPE 316 STAINLESS STEEL

CABLE DIA.	PART NO.	"L"	"T"
1/8" and 3/16"	TT-6B	1.250"	.265"
1/4"	TT-8B	1.625"	.390"

Order tab and screw separately.



Ultra-tec® Lag Eye

A convenient, easy-to-install means for attaching an Adjust-A-Jaw® or Adjust-A-Body® tensioner, Ultra-tec® Fixed Jaw, or Push-Lock™ fitting with threaded eye to a wood post.

TYPE 304 STAINLESS STEEL

CABLE DIA.	PART NO.	"T"	"L"	DRILL SIZE REQUIRED	MIN. NOMINAL TIMBER SIZE
1/8"	LE-6	.253"	1.50"	17/64"	4 X 4
3/16"	LE-6	.253"	1.50"	17/64"	4 X 4
1/4"	LE-8	.385"	2.00"	3/8"	4 X 4

EXTENDED LENGTH LAG EYE WITH 3" THREAD

CABLE DIA.	PART NO.	"T"	"L"	DRILL SIZE REQUIRED	MIN. NOMINAL TIMBER SIZE
1/8"	LE-6L	.253"	3.00"	17/64"	4 X 4
3/16"					



All Ultra-tec® hardware is manufactured in the United States of America.

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20133 SE 353rd Street • Auburn, WA 98092

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Adjust-A-Body® with Threaded Bolt Tensioners

Used on level runs. Screws into drilled and tapped hole in the end post.

TYPE 316 STAINLESS STEEL

CABLE DIA.	PART NO.	ALSO ORDER FERRULE PART NO.	"L"
1/8"	A-JTB6	F-4	3.125"
3/16"	A-JTB6	F-6	3.125"
1/4"	A-JTB8	F-8	3.500"



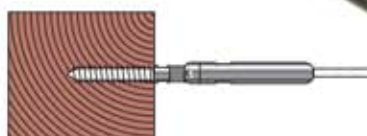
Adjust-A-Body® with Hanger Bolt Tensioners

This tensioner screws right into your wooden end post.

There is no need for special mounting hardware.

TYPE 316 STAINLESS STEEL

CABLE DIA.	PART NO.	ALSO ORDER FERRULE PART NO.	"LS"	"L"	DRILL SIZE REQUIRED	MINIMUM NOMINAL TIMBER SIZE
1/8"	A-JB6	F-4	1.50"	3.125"	15/64"	4 x 4
3/16"	A-JB6	F-6	1.50"	3.125"	15/64"	
1/4"	A-JB8	F-8	2.00"	3.500"	5/16"	

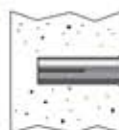


Adjust-A-Body® with Concrete Anchor Bolt Tensioners

Screws into a standard "Red Head" brand concrete anchor (not included).

TYPE 316 STAINLESS STEEL

CABLE DIA.	PART NO.	ALSO ORDER FERRULE PART NO.	"L"	USE WITH "RED HEAD" BRAND CONCRETE ANCHOR NO.	
				CARBON STEEL	STAINLESS STEEL
1/8"	A-JAB6	F-4	3.125"	RL-38	SSRM-38
3/16"	A-JAB6	F-6	3.125"		
1/4"	A-JAB8	F-8	3.500"	RL-12	SSRM-12



Grommets and Cable

Cable Grommets

Black UV-resistant grommets are installed in post holes to help prevent rust. They provide a barrier between the cable and the painted or powder-coated surface through which the cable is drawn when being installed. Grommets are installed after the posts have been painted or powder coated.

Order grommets by diameter of cable being used and thickness of the post through which the cable will be drawn.



CABLE DIA.	POST MATERIAL (Not slotted for stairway)				POST MATERIAL SLOTTED FOR STAIRWAY PITCH UP TO 37°		
	1-1/4", 1-1/2" or 2" SCHEDULE 40 PIPE	1-1/4", 1-1/2" or 2" SCHEDULE 80 PIPE	SQUARE OR RECTANGULAR TUBING		1-1/4", 1-1/2" or 2" SCHEDULE 40 PIPE	SQUARE OR RECTANGULAR TUBING	
			.120" WALL	.250" WALL		.120" WALL	.250" WALL
1/8" & 3/16"	G-C6-1	G-C6-3	G-C6-2	G-C6-4	GI-C6-1	GI-C6-2	GI-C6-4
1/4"	G-C8-1	G-C8-3	G-C8-2	G-C8-4	GI-C8-1	GI-C8-2	GI-C8-4

Stainless Steel Cable

For most railing applications, we recommend 1x19 construction, type 316 stainless steel cable. Type 316 stainless steel is highly corrosive resistant, smooth to the touch, and attractive. 1x19 construction cable is engineered to hold static loads without stretching, so it will not stretch nor require frequent re-tensioning when installed in a railing.

CABLE DIA.	MINIMUM BREAKING STRENGTHS (IN POUNDS) FOR TYPE 316 STAINLESS STEEL CABLE
1/8"	1,780
3/16"	4,000
1/4"	6,900

All Ultra-tec® hardware is manufactured in the United States of America.

It is recommended that all posts to which fittings are attached be fabricated to support a tension of 400 lbs. per cable (minimum schedule 80 in pipe or minimum 1/4" wall in square or rectangular tubing). Cables should be spaced on end posts with approximately 3" of clear span between cables, and cables should be supported at no more than 42" intervals along the cable run.



AMERICAN STRUCTURES & DESIGN Inc

Stop-Ends Non Tensioning



Ultra-tec® Fixed Jaws

Attractive non-tensioning device. This clevis-style fitting is often used with Adjust-A-Jaw® Tensioners on the other end of the cable.

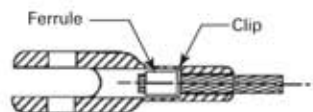
TYPE 316 STAINLESS STEEL				
CABLE DIA.	PART NO.	ALSO ORDER		"L"
		FERRULE PART NO.	SCREW PART NO.	
1/8"	F-J62	F-4	SC-6	1.75"
3/16"	F-J62	F-6	SC-6	1.75"
1/4"	F-J82	F-8	SC-8	2.12"



Ultra-tec® Clip-on Fixed Jaws

Same as the regular Ultra-tec® Fixed Jaw, except it is installed by hand. No special equipment is needed.

TYPE 316 STAINLESS STEEL				
CABLE DIA.	PART NO.	ALSO ORDER		"L"
		FERRULE PART NO.	SCREW PART NO.	
1/8"	F-JC2-4	F-4	SC-6	1.75"
3/16"	F-JC2-6	F-6	SC-6	1.75"

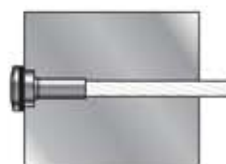


Invisiware® Radius Ferrules

Used on the non-tensioning end of the cable. When installed, only the head of the fitting is exposed on the outside of the post. Often used with Invisiware® Receivers on the other end of the cable.



TYPE 316 STAINLESS STEEL					
CABLE DIA.	PART NO.	AFTER SWAGED DIMENSIONS			
		"A"	"L"	"S"	"D"
1/8"	RF-4	.437"	.750"	.537"	.250"
3/16"	RF-6	.437"	.750"	.537"	.250"
1/4"	RF-8	.531"	1.000"	.646"	.375"



PL-4



PL-TE4



PUL-4



Push-Lock™ and Pull-Lock™ Fittings

Used on the non-tensioning end of the cable. The fittings are attached by hand, no special equipment is needed. Styles offered for level runs or stairs.

VARIOUS TYPES OF STAINLESS STEEL		
CABLE DIA.	PART NO.	ALSO ORDER SCREW PART NO.
1/8"	PL-4 Push-Lock for level runs	N.A.
	PL-TE4 Push-Lock for stairs	SC-6
	PUL-4 Pull-Lock for level runs	N.A.

PL-4



PL-TE4



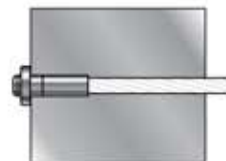
PUL-4



Ultra-tec® Clip-on Stops

Cables supplied with 1/4" diameter stop on one end and a tensioner on the other. To install, slide the washer over the stop, then secure the end with the clip by hand. No special equipment is necessary to install these fittings.

TYPE 316 STAINLESS STEEL		
CABLE DIA.	FOR METAL POST PART NO.	FOR WOOD POST PART NO.
1/8"	COS-4M	COS-4
3/16"	COS-6M	COS-6



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