

- Cable Rail Components
- Swageless Fittings
- Architectural Rod Systems
- Trellis Systems
- Cable Solutions for Wood
- Stainless Steel
 Cable and
 Hardware
- Tools and Equipment

Cable Art Incorporated Architectural Products

Advantages of Swageless Fittings

Swaging is the term used for attaching fittings to the cable. Swageless fittings are installed on the cables by hand at the job site. With swageless fittings, at least one cable end does not contain a fitting when delivered to the job site. Fittings are larger than the diameter of the cable, so, since only bare cable is fed through intermediate elements between terminating end posts, holes in the intermediate elements can be drilled close to the diameter of the cable. Hence, there is a tighter fit between cable and frame than there would be if the cables were supplied with fittings on both ends.

With swageless fittings, the cables can be installed at the same time the railing frames are installed. There is no waiting for exact measurements that would be required if the cables were supplied with fittings on both ends of the cable.

Swageless fittings are generally more costly than fittings that are swaged. However, on smaller projects, using swageless fittings often results in savings when the cost of renting or purchasing the equipment necessary to swage the fittings on site is considered.

Swageless fittings are offered for use with 1/8" and 3/16" cable, so they are not a choice for projects using larger diameter cables.

Advantages of Swaged Fittings

If fittings are swaged on site when the cables are installed, the intermediate elements between terminating end posts can be drilled close to the diameter of the cable, because there are no fittings to pass through the holes in the posts. There is a tighter fit of cable to frame than there would be with the larger holes required if fittings are swaged on both ends before the cables are strung through the posts.

An alternative to swaging on site (or using swageless fittings) is to have the fittings swaged on both ends of the cable by the factory. The disadvantages, however,

are that exact measurements must be supplied for the factory to swage the fittings onto the cable and, with fittings already attached to the cables, intermediate element holes need to be drilled oversize for the fittings to pass through for installation.

Swaging requires special equipment that can be purchased or rented from the factory. Swaged fittings are generally less expensive than swageless fittings, so on larger projects the savings in using swaged fittings may more than offset the cost of the equipment.

Front Cover

Stairway is constructed using 1-1/2" square tubular terminating posts, 3/4" x 1-1/2" rectangle tubular



Intermediate posts and 1" x 2" rectangle tubular top rail. Invisiware® receivers (page 11) are used at both ends of cable for stair runs and one end of level runs. Other end of cable for level runs are using Invisiware® radius ferrules (page 20).

LEED® Credit

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Building Codes

When used in accordance with factory recommendations for constructing the railing frame, spacing, and supporting the cables, a railing using CAI cable railing products will meet common infill loading requirements required by local building codes.



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Key to Type and Material

The icons defined below will help you choose the fitting or hardware appropriate for your project.

Material

Type of fitting						
SWAGE	Fitting must be swaged					

316SS	Type 316
0.000	Stainless Steel

410SS

Type 410 Stainless Steel

CRIMP Fitting must be crimped with Handy Crimp Tool, page 36

304SS Type 304 Stainless Steel STEEL

Carbon Steel

GRIP

No special tools required

18-8SS

Type 18-8 Stainless Steel

Catalog items and specifications are subject to change without notice. Items are not always as pictured.



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Push-Lock™ Fittings

NON-TENSIONING END

push!

Lock!

Field-installed Push-Lock™ fittings require no swaging or special tools and can be used on angled or straight runs.

No field swaging

Push-Lock™ fittings are designed for use with 1x19 L.H. lay strand only. They can be used with any tensioning device on the other end... but when used with our swageless tensioners (pages 4-7) both ends can be put on the cable by hand without any swaging or special tools.

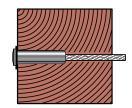
Easy to install

You can order your cables with a tensioner already on one end or you can install a tensioner on one end on site. Attach the tensioner on one end post then cut the cable to length. Slip the Push-Lock[™] fitting into the other end post or, using the style with a threaded eye, mount it to a tab on the outside of the post. Push the cable into the Push-Lock™ fitting, tension the cable, and you're done!



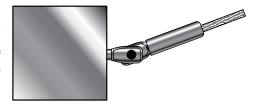
Two styles make your job easy – in metal or wood

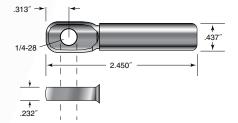
Push-Lock™ fittings with rounded cap ends rest inside your metal or wood end posts on level runs. The fitting is hidden inside the post, with only the head exposed on the outside of the post.

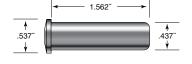


GRIP 316SS

Push-Lock™ fittings with threaded eyes mount to lag eyes, tabs or holes on the outside of your metal or wood post for use on stairs and severe pitches.







Push-Lock™ fittings are made of type 316 stainless steel
with the exception of internal components that are made of other types of stainless steel.
PUSH-LOCK™ DESIGNED FOR USE WITH 1X19 L.H. LAY STRAND ONLY

		FRAME OPTIONS		USE WITH	FOR WOOD	, USE WITH	FOR METAL RAILINGS, USE WITH	
CABLI DIA.		1-1/2" TUBE or 1-1/4" PIPE	OTHER FRAMES	SCREW NO.	WASHER NO.	LAG EYE NO.	MOUNTING TAB NO.	
1/8"	For flat runs	20FPL4-12*	20FPL4	NA	11HW14	NA	NA	
1/8"	For stairs	20FPLTE4	20FPLTE4	11HBS8	NA	20HLE4	See page 28 in this catalog	

*For appearance, ends are flat (rather than rounded) or use with 1-1/2" tubes and 1-1/4" pipe.



Pull-Lock[™] Fittings

NON-TENSIONING END

Field installed Pull-Lock™ fittings make installing cables easy.

No field swaging

Pull-Lock $^{\text{TM}}$ fittings are designed for use with 1x19 L.H. lay strand only. They can be used with any tensioning device on the other end...but when used with our swageless tensioners both ends can be put on the cable by hand without any swaging or special tools.

Easy to install

You can order your cables with a tensioner already on one end or you can install a tensioner on one end on site. Attach the tensioner on one end post, slip the Pull-Lock™ fitting into the other end post and pull the cable all the way through the Pull-Lock™ fitting. Tension the cables, then cut the excess cable off on the back side of the fitting with a 4" right angle grinder or a cut-off tool (page 36) that is used with your hand drill. Press on the stainless steel cap to cover the bare cable end, and you're done!



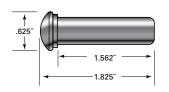


Pull-Lock™ fittings are used with pipe and with round, square, or rectangular metal tubing. When used with an end post 1-1/2" or more in thickness, the Pull-Lock™ fitting is hidden inside the end post, with only the head exposed on the outside of the post. Pipe ends are counterbored, so the full perimeter of the screw cap head rests on a flat surface in the pipe. The head rests on the outside wall of a flat-sided metal post. A plastic washer is included and acts as a scratch-resistant barrier between the screw cap head and the metal post. For wood applications, also order Stainless Steel Washer, Part No. 11HW14 (page 31).



GREEN THESE PRODUCTS 65% RECYCLED CONTENT, HELPING YOU QUALIFY FOR





Pull-Lock™ fittings are made of type 316 stainless steel with the exception of internal components that are made of other types of stainless steel **DESIGNED FOR USE WITH**

trated with	PULL-LOCK
LIGIOG VIIII	

Receiver with Push-Lock Stud on other end (see page 4).

PULL-LUC	IN IN IN IS L	III. LAT STRAI	ID CINET GRIP 3 1655
	FRAME OF	PTIONS	
CABLE DIA.	1-1/2" TUBE or 1-1/4" PIPE	OTHER FRAMES	FOR WOOD, ALSO USE S.S. WASHER PART NO.
1/8"	20FPUL4-12*	20FPUL-4	11HW14

^{*}For appearance, ends are flat (rather than rounded) for use with 1-1/2" tubes and 1-1/4" pipe





Receivers with Push-Lock™ Stud

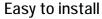
TENSIONER

Field installed Push-Lock[™] studs require no swaging or special tools.

GREEN THESE PRODUCTS CONTAIN AT LEAST 65% RECYCLED CONTENT, HELPING YOU QUALIFY FOR LEED® CREDITS.

No field swaging

Similar to our Invisiware® receivers (see page 11), but when used with Push-Lock™ studs there is no need to swage the threaded stud onto the cable. Receivers with Push-Lock™ swageless studs can be used with any fitting on the other end, but when used with our other swageless fittings, both ends can be put on the cable by hand without any swaging or special tools.

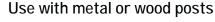


Push-Lock™ studs are designed for use with 1x19 L.H. lay strand only. Push the cable into the Push-Lock™ swageless stud, where it will be securely held inside the fitting. The receiver is female-threaded to accept the male-threaded end of the fitting. The head of the receiver is broached for an Allen wrench. To tension the cable, use an Allen wrench to rotate the receiver around the threaded end of the stud.

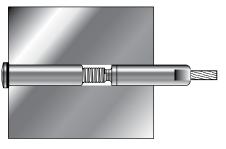


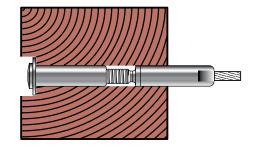
Illustrated with Push-Lock (non-tensioning) fitting on other end (see page 2).





The receiver with Push-Lock™ stud rests inside your metal or wood end post.





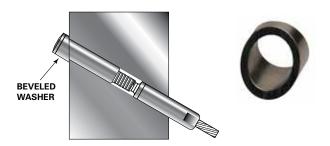
For use in wood, the fitting can rest against the outside of the end post or the post can be counterbored with the fitting recessed in the post. For wood applications, a larger diameter washer is needed to distribute the load over a wider surface. See Stainless Steel Washer, Part No. 11HW14 (page 31).

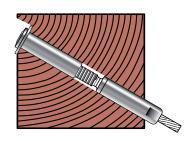


For stairs or severe pitches

With wood posts, you need to counterbore a 1" diameter hole at an angle, to accept the over-sized stainless steel washer that distributes the load over a wider surface than is required with a metal post.

Special stainless steel beveled washers let you use Push-Lock™ tensioners on stairs or severe pitches with flat-sided metal posts. (Not offered for pipe or round tubing.)

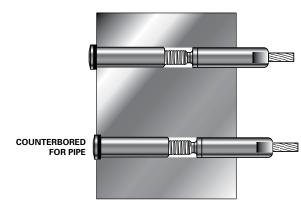




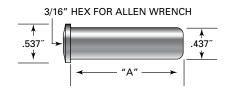
STAINLESS STEEL BEVELED WASHERS	304SS
FOR PITCH OF	ORDER PART NO.
30° - 33°	20HAW1432
34° - 36°	20HAW1435
37° - 39°	20HAW1438

For level runs

Receivers with Push-LockTM studs rest in a hole inside the end post. Pipe ends are counterbored, so the full perimeter of the screw cap head rests on a flat surface in the pipe. The head rests on the outside wall of a flat-sided metal post. A plastic washer is included and acts as a scratch-resistant barrier between the screw cap head and the metal post. For wood applications, a larger diameter washer is needed to distribute the load over a wider surface. For wood, also order a Stainless Steel Washer, Part No. 11HW14 (page 31).



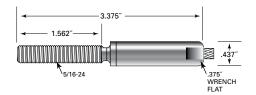
Receiver



PART NUMBERS IN BOLD TYPE RECEIVER ORDER SWAGELESS STUD SEPARATELY GRIP 316						IP 316SS			
CABLE	USE WITH SWAGELESS		A = LENGTH OF RECEIVER BODY						
DIA.	STUD NO.	1.562"	1.812"	2.030"	2.301"	2.375"	2.530"	3.030"	3.5625"
1/8"	20FPLST4	20F4012	20F4022	20F4032	20F4042	20F4072	20F4082	20F4052	20F4062

Push-Lock™ Swageless Stud

The Push-Lock™ swageless stud is installed onto the end of the cable by hand, by pushing the cable into the fitting where it is held securely inside. No swaging is required, and, other than a cable cutter, no special tools are needed.



Push-Lock™ swageless studs are made of type 316 stainless steel with the exception of internal components that are made of other types of stainless steel. DESIGNED FOR USE WITH 1X19 L.H. LAY STRAND ONLY

CABLE DIA.	PART NO.			
1/8"	20FPLST4			
	GRIP 316SS			

7/1/11

Cable Art Incorporated



Handy Grip Systems

TENSIONERS

Simple and clean. Easy to install. No field swaging.

Similar to the machine swage and Handy Crimp style cable systems, this design revolves around being a high-strength, yet compact, solution for swageless cable terminations. Additionally, this system was designed to minimize the amount of the new hardware components required, sharing the majority of end fitting choices with its "swage type" counterparts.

The Handy Grip is offered for 1x19 and 7x7 cable strand configurations in both 1/8" and 3/16" cable diameters. Our hardware is made from high quality 316 grade stainless steel for superior corrosion resistance.

Visit our Website for assembly instructions.



Termination Stud Turnbuckle	
"E" ——"D"——	→ — "R" — →

TERMINA	TERMINATION STUD TURNBUCKLE								
CABLE DIA.	PART NO.	"B" THREAD	"D" BODY	OPEN "E	CLOSED	"A" CAP SIZE	"R" ROD LENGTH		
1/8"	10A40150	1/4-28	4.250"	10.250"	8.250"	.5625"	1.250"		
1/8"	10A40152	1/4-28	4.250"	11.250"	9.250"	.5625"	2.250"		
1/8"	10A40154	1/4-28	4.250"	13.250"	11.250"	.5625"	4.250"		
1/8"	10A40156	1/4-28	4.250"	15.250"	13.250"	.5625"	6.250"		
3/16"	10A60150	1/4-28	4.250"	10.250"	8.250"	.5625"	1.250"		
3/16"	10A60152	1/4-28	4.250"	11.250"	9.250"	.5625"	2.250"		
3/16"	10A60154	1/4-28	4.250"	13.250"	11.250"	.5625"	4.250"		
3/16"	10A60156	1/4-28	4.250"	15.250"	13.250"	.5625"	6.250"		



THREADE	THREADED TERMINATION TURNBUCKLE										
CABLE DIA.	PART NO.	"B" THREAD	"D" BODY	"E" OPEN CLOSED		"R" ROD LENGTH					
1/8"	10A40550	1/4-28	4.250"	10.250"	8.250"	1.250"					
1/8"	10A40552	1/4-28	4.250"	11.250"	9.250"	2.250"					
1/8"	10A40554	1/4-28	4.250"	13.250"	11.250"	4.250"					
1/8"	10A40556	1/4-28	4.250"	15.250"	13.250"	6.250"					
3/16"	10A60550	1/4-28	4.250"	10.250"	8.250"	1.250"					
3/16"	10A60552	1/4-28	4.250"	11.250"	9.250"	2.250"					
3/16"	10A60554	1/4-28	4.250"	13.250"	11.250"	4.250"					
3/16"	10A60556	1/4-28	4.250"	15.250"	13.250"	6.250"					

"A" See End Fitting Options, pages 30-31.



LAG STUD TURNBUCKLE GRIP 316SS										
CABLE DIA.	PART NO.	"B" THREAD	"D" BODY		E" CLOSED					
1/8"	10A40652	1/4-28	4.250"	8.750"	6.750"					
3/16"	10A60652	1/4-28	4.250"	8.750"	6.750"					

Threaded Stud



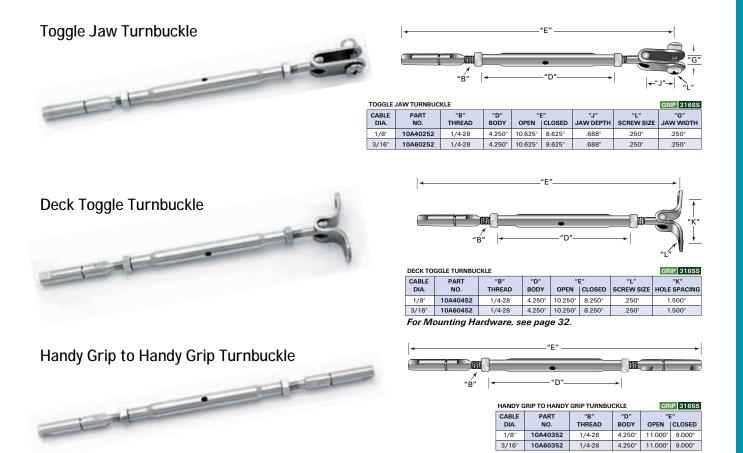
THREADE	D STUD			GRIP 316SS
CABLE DIA.	PART NO.	"B" THREAD	"E" LENGTH	"T" THREAD LENGTH
1/8"	10T40854	1/4-28 LH	4.375"	2.250"
1/8"	10T40855	1/4-28 RH	4.375"	2.250"
3/16"	10T60854	1/4-28 LH	4.375"	2.250"
3/16"	10T60855	1/4-28 RH	4.375"	2.250"

Stud Tensioning System

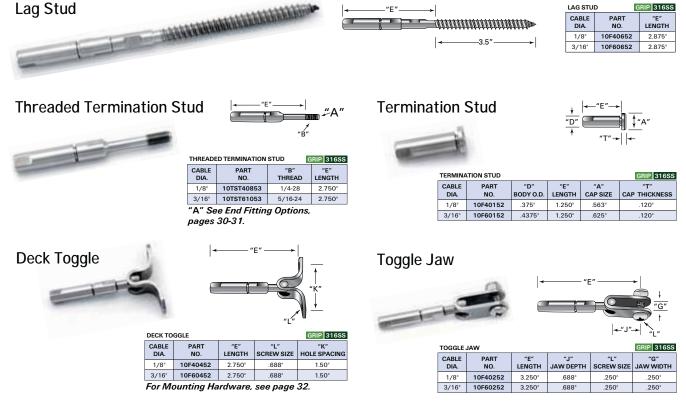


STUD TE	STUD TENSIONING SYSTEM GRIP											
CABLE DIA.	PART NO.	"B" THREAD	"D" BARREL	OPEN	-	"J" BARREL DIA.	"A" CAP SIZE	"T" CAP THICKNESS				
1/8"	10AST40850	1/4-28	.563"	3.375"	3.375"	.313"	.500"	.125"				
1/8"	10AST40852	1/4-28	1.500"	4.250"	3.375"	.313"	.500"	.125"				
3/16"	10AST61050	5/16-24	.563"	3.375"	3.375"	.375"	.563"	.125"				
3/16"	10AST61052	5/16-24	1.500"	4.250"	3.375"	.375"	.563"	.125"				









Visit our Website for assembly instructions.









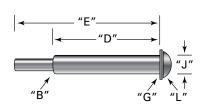


Top Hat System™



Top Hat Cable System™ achieves maximum cable railing adjustment when used on both ends. This method displays balance and symmetry in the finished cable railing product. No threads show, hardware is hidden.

For angle compensation options, see page 31.





TOP HAT	SYSTEM							SWAGE 316SS		
CABLE DIA.	PART NO.	"B" THREAD	"D" BARREL	OPEN "I	"E" OPEN CLOSED		-		"L" SCREW SIZE	"G" WASHER
1/8"	40A40102	6 mm.	2.250"	3.375"	2.750"	.363"	5/16-18	3/8" (5/8" OD)		
1/8"	40A40104	6 mm.	3.250"	4.250"	3.375"	.363"	5/16-18	3/8" (5/8" OD)		
3/16"	40A60102	6 mm.	2.250"	3.625"	3.000"	.363"	5/16-18	3/8" (5/8" OD)		
3/16"	40A60104	6 mm.	3.250"	4.438"	3.563"	.363"	5/16-18	3/8" (5/8" OD)		
3/16"	40A60106	6 mm.	4.250"	5.375"	4.250"	.363"	5/16-18	3/8" (5/8" OD)		
1/4"	40A80102	5/16-18	2.875"	4.375"	3.750"	.484"	3/8-16	1/2" (7/8" OD)		
1/4"	40A80104	5/16-18	3.375"	4.813"	3.938"	.484"	3/8-16	1/2" (7/8" OD)		
1/4"	40A80106	5/16-18	4.500"	5.625"	4.500"	.484"	3/8-16	1/2" (7/8" OD)		
3/8"	40A12102	3/8-16	4.250"	6.375"	5.500"	.664"	1/2-13	11/16" (1" OD)		
1/2"	40A16102	1/2-20	5.313"	8.125"	6.750"	.804"	5/8-18	7/8" (1-1/2" OD)		

Stud Tensioning System



This simple and economical cable tensioning system provides for an extremely "clean" look concealing the threads for adjustment internally. The typical application is for short- to medium-length cable runs in wire sizes ranging from 1/8" to 1/4". Cable tensioning is easily accomplished with the use of a 3/16" hex key wrench (Allen wrench). All hardware is made from high quality 316 grade stainless steel for superior corrosion resistance.

Additionally, the stud tensioners can be used in conjunction with other stud length combinations and systems to meet your design criteria.

For angle compensation options, see page 31.



STUD TE	STUD TENSIONING SYSTEM SWAGE 316SS											
CABLE	PART	"B"	"D"	"	Ε"	"J"	"A"	"T"				
DIA.	NO.	THREAD	BARREL	OPEN	CLOSED	BARREL DIA.	CAP SIZE	CAP THICKNESS				
1/8"	10AST40800	1/4-28	.563"	2.500" 2.500"		.313"	.500"	.125"				
1/8"	10AST40802	1/4-28	1.500"	3.375"	2.625"	.313"	.500"	.125"				
5/32"	10AST50800	1/4-28	.563"	2.875"	2.875"	.313"	.500"	.125"				
5/32"	10AST50802	1/4-28	1.500"	3.750" 3.000"		.313"	.500"	.125"				
5/32"	10AST51000	5/16-24	.563"	3.063" 3.063"		.375"	.563"	.125"				
5/32"	10AST51002	5/16-24	1.500"	3.750"	3.000"	.375"	.563"	.125"				
3/16"	10AST60800	1/4-28	.563"	2.813"	2.813"	.313"	.500"	.125"				
3/16"	10AST60802	1/4-28	1.500"	3.813"	3.000"	.313"	.500"	.125"				
3/16"	10AST61000	5/16-24	.563"	2.875"	2.875"	.375"	.563"	.125"				
3/16"	10AST61002	5/16-24	1.500"	3.813"	3.000"	.375"	.563"	.125"				
1/4"	10AST81000	5/16-24	.563"	3.500" 3.500"		.375"	.563"	.125"				
1/4"	10AST81002	5/16-24	1.500"	4.375"	3.625"	.375"	.563"	.125"				

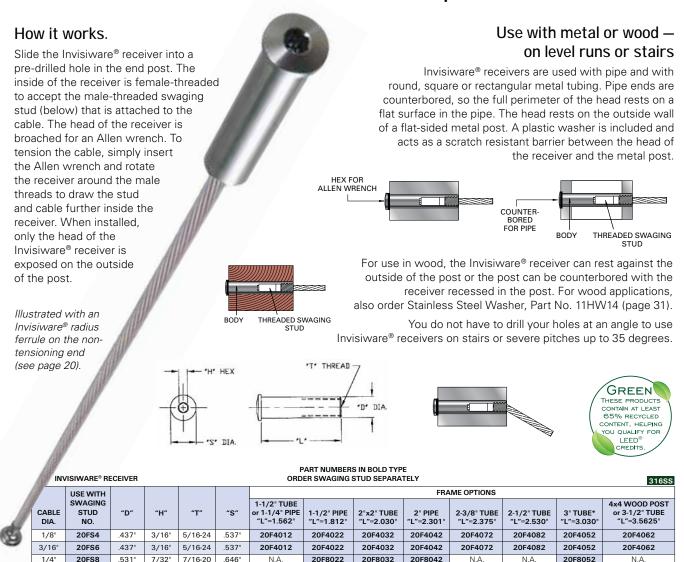
HANDY C	HANDY CRIMP* CRIMP 316S											
CABLE DIA.	PART NO.	"B" THREAD	"D" BARREL	"E" OPEN CLOSED		-		"J" BARREL DIA.	"A" CAP SIZE	"T" CAP THICKNESS		
1/8"	10AST40810	1/4-28	.563"	3.250"	3.250"	.313"	.500"	.125"				
1/8"	10AST40812	1/4-28	1.500"	4.125"	3.375"	.313"	.500"	.125"				
3/16"	10AST60810	1/4-28	.563"	3.375"	3.375"	.313"	.500"	.125"				
3/16"	10AST60812	1/4-28	1.500"	4.250"	3.500"	.313"	.500"	.125"				
3/16"	10AST61010	5/16-24	.563"	3.375"	3.375"	.375"	.563"	.125"				
3/16"	10AST61012	5/16-24	1.500"	4.250"	3.500"	.375"	.563"	.125"				

*Requires 11THCT1 Handy Crimp Tool. See Tools, page 36.



Invisiware® Receivers

The tensioners that are hidden inside the post.



^{*} Also use with 2"x1" and 3"x1" double end post construction, along with stainless steel spacers (page 33)

Order Receiver and Stud separately.

.865

.865"

N.A

N.A

N.A

N.A

9/16-18

5/16" 9/16-18

Invisiware® Threaded Swaging Stud

This part is swaged onto the end of the cable and used with the Invisiware® receiver (above). When used with the welded receiver (see page 28) in a metal end post, it becomes a stop-end (non-tensioning end) fitting that is completely hidden inside the end post. The threaded surface is coated with a baked-on molybdenum-based dry film lubricant, to prevent the threads from binding when tensioned and in extreme environments.

5/16

3/8"

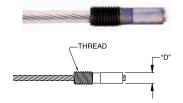
20FS10

20FS12

.687

.687

5/16



20F1232

20F1232

20F1242

20F1242

N.A

N.A

N.A

N.A

MOLY COA	TED	ED SWAGIN	SWAGE 316SS
CABLE DIA.	PART NO.	THREAD	"D" DIAMETER AFTER SWAGED
1/8"	20FS4	5/16-24	.250"
3/16"	20FS6	5/16-24	.250"
1/4"	20FS8	7/16-20	.375"
5/16"	20FS10	9/16-18	.500"
3/8"	20FS12	9/16-18	.500"

20F1252

20F1252

N.A





Threaded Stud System

The most cost effective cable attachment and tensioning solution offers a very "clean" look. This system normally uses a flat washer and hex nut for tensioning against the end vertical posts in the run. A cap (acorn) nut is installed on the protruding threads to finish off the attachment and lock the tensioning nut in position.



\mathbf{H}	ΛNI	DV	CD	IКЛ	D *

CRIMP 316SS

			0.000			
CABLE DIA.	PART. NO.	THREAD LENGTH	THREAD SIZE			
1/8"	10T40810	.438"	1/4-28 LH			
1/8"	10T40811	.438"	1/4-28 RH			
1/8"	10T40812	1.500"	1/4-28 LH			
1/8"	10T40813	1.500"	1/4-28 RH			
1/8"	10T40814	2.250"	1/4-28 LH			
1/8"	10T40815	2.250"	1/4-28 RH			
3/16"	10T60811	.438"	1/4-28 RH			
3/16"	10T60812	1.500"	1/4-28 LH			
3/16"	10T60813	1.500"	1/4-28 RH			
3/16"	10T60814	2.250"	1/4-28 LH			
3/16"	10T60815	2.250"	1/4-28 RH			
3/16"	10T60817	3.250"	1/4-28 RH			
3/16"	10T61010	.438"	5/16-24 LH			
3/16"	10T61011	.438"	5/16-24 RH			
3/16"	10T61012	1.500"	5/16-24 LH			
3/16"	10T61013	1.500"	5/16-24 RH			
3/16"	10T61014	2.375"	5/16-24 LH			
3/16"	10T61015	2.375"	5/16-24 RH			

^{*}Requires 11THCT1 Handy Crimp Tool. See Tools, page 36. See pages 30-31 for hardware.

Visit our Website for installation instructions.





THREADED STUD

SWAGE 316SS

DIA. NO. LENGTH SIZE 1/8" 10T40800 .438" 1/4-28 LH 1/8" 10T40801 .438" 1/4-28 RH 1/8" 10T40802 1.500" 1/4-28 LH 1/8" 10T40803 1.500" 1/4-28 RH 1/8" 10T40805 2.250" 1/4-28 RH 1/8" 10T40807 3.250" 1/4-28 RH 5/32" 10T50801 .438" 1/4-28 RH 5/32" 10T50802 1.500" 1/4-28 LH 5/32" 10T50803 1.500" 1/4-28 RH 5/32" 10T50804 2.250" 1/4-28 RH 5/32" 10T50805 2.250" 1/4-28 RH 5/32" 10T50807 3.250" 1/4-28 RH 3/16" 10T60801 .438" 1/4-28 RH 3/16" 10T60801 .438" 1/4-28 RH 3/16" 10T60803 1.500" 1/4-28 RH 3/16" 10T60804 2.250" 1/4-28 RH 3/16" <td< th=""><th>THREADED S</th><th></th><th></th><th colspan="3">SWAGE 316SS</th></td<>	THREADED S			SWAGE 316SS		
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3/16" 10T60801 .438" 1/4-28 RH 3/16" 10T60802 1.500" 1/4-28 LH 3/16" 10T60803 1.500" 1/4-28 RH 3/16" 10T60804 2.250" 1/4-28 LH 3/16" 10T60807 3.250" 1/4-28 RH 3/16" 10T61000 .438" 5/16-24 LH 3/16" 10T61001 .438" 5/16-24 RH 3/16" 10T61002 1.500" 5/16-24 RH 3/16" 10T61003 1.500" 5/16-24 RH 3/16" 10T61004 2.375" 5/16-24 RH 3/16" 10T61004 2.375" 5/16-24 RH 1/4" 10T81000 .438" 5/16-24 RH 1/4" 10T81001 .438" 5/16-24 RH 1/4" 10T81002 1.500" 5/16-24 RH 1/4" 10T81003 1.500" 5/16-24 RH 1/4" 10T81004 2.375" 5/16-24 RH 1/4" 10T81005 2.375" 5/16-24 RH <td< th=""><th>5/32"</th><th>10T50805</th><th>2.250"</th><th>1/4-28 RH</th></td<>	5/32"	10T50805	2.250"	1/4-28 RH		
3/16" 10T60802 1.500" 1/4-28 LH 3/16" 10T60803 1.500" 1/4-28 RH 3/16" 10T60804 2.250" 1/4-28 LH 3/16" 10T60805 2.250" 1/4-28 RH 3/16" 10T60807 3.250" 1/4-28 RH 3/16" 10T61000 .438" 5/16-24 LH 3/16" 10T61001 .438" 5/16-24 RH 3/16" 10T61002 1.500" 5/16-24 LH 3/16" 10T61003 1.500" 5/16-24 LH 3/16" 10T61004 2.375" 5/16-24 LH 3/16" 10T61005 2.375" 5/16-24 RH 1/4" 10T81000 .438" 5/16-24 RH 1/4" 10T81001 .438" 5/16-24 RH 1/4" 10T81003 1.500" 5/16-24 RH 1/4" 10T81004 2.375" 5/16-24 RH 1/4" 10T81005 2.375" 5/16-24 RH 1/4" 10T81000 .438" 3/8-24 LH	5/32"	10T50807	3.250"	1/4-28 RH		
3/16" 10T60803 1.500" 1/4-28 RH 3/16" 10T60804 2.250" 1/4-28 LH 3/16" 10T60805 2.250" 1/4-28 RH 3/16" 10T60807 3.250" 1/4-28 RH 3/16" 10T61000 .438" 5/16-24 LH 3/16" 10T61001 .438" 5/16-24 RH 3/16" 10T61002 1.500" 5/16-24 LH 3/16" 10T61003 1.500" 5/16-24 RH 3/16" 10T61004 2.375" 5/16-24 RH 3/16" 10T61005 2.375" 5/16-24 RH 1/4" 10T81000 .438" 5/16-24 RH 1/4" 10T81001 .438" 5/16-24 RH 1/4" 10T81002 1.500" 5/16-24 RH 1/4" 10T81003 1.500" 5/16-24 RH 1/4" 10T81004 2.375" 5/16-24 RH 1/4" 10T81005 2.375" 5/16-24 RH 1/4" 10T81200 .438" 3/8-24 RH	3/16"	10T60801	.438"	1/4-28 RH		
3/16" 10T60804 2.250" 1/4-28 LH 3/16" 10T60805 2.250" 1/4-28 RH 3/16" 10T60807 3.250" 1/4-28 RH 3/16" 10T61000 .438" 5/16-24 LH 3/16" 10T61001 .438" 5/16-24 RH 3/16" 10T61002 1.500" 5/16-24 RH 3/16" 10T61003 1.500" 5/16-24 RH 3/16" 10T61004 2.375" 5/16-24 RH 3/16" 10T61005 2.375" 5/16-24 RH 1/4" 10T81000 .438" 5/16-24 RH 1/4" 10T81001 .438" 5/16-24 RH 1/4" 10T81002 1.500" 5/16-24 RH 1/4" 10T81003 1.500" 5/16-24 RH 1/4" 10T81004 2.375" 5/16-24 RH 1/4" 10T81005 2.375" 5/16-24 RH 1/4" 10T81200 .438" 3/8-24 LH 1/4" 10T81200 .438" 3/8-24 RH 1/	3/16"	10T60802	1.500"	1/4-28 LH		
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1/4" 10T81003 1.500" 5/16-24 RH 1/4" 10T81004 2.375" 5/16-24 LH 1/4" 10T81005 2.375" 5/16-24 RH 1/4" 10T81200 .438" 3/8-24 LH 1/4" 10T81201 .438" 3/8-24 RH 1/4" 10T81202 1.500" 3/8-24 LH 1/4" 10T81203 1.500" 3/8-24 RH 1/4" 10T81204 2.750" 3/8-24 LH 1/4" 10T81205 2.750" 3/8-24 RH	1/4"	10T81001	.438"	5/16-24 RH		
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1/4" 10T81201 .438" 3/8-24 RH 1/4" 10T81202 1.500" 3/8-24 LH 1/4" 10T81203 1.500" 3/8-24 RH 1/4" 10T81204 2.750" 3/8-24 LH 1/4" 10T81205 2.750" 3/8-24 RH	1/4"	10T81005	2.375"	5/16-24 RH		
1/4" 10T81202 1.500" 3/8-24 LH 1/4" 10T81203 1.500" 3/8-24 RH 1/4" 10T81204 2.750" 3/8-24 LH 1/4" 10T81205 2.750" 3/8-24 RH	1/4"			-		
1/4" 10T81203 1.500" 3/8-24 RH 1/4" 10T81204 2.750" 3/8-24 LH 1/4" 10T81205 2.750" 3/8-24 RH	1/4"	10T81201	.438"	3/8-24 RH		
1/4" 10T81204 2.750" 3/8-24 LH 1/4" 10T81205 2.750" 3/8-24 RH	1/4"	10T81202	1.500"	3/8-24 LH		
1/4" 10T81205 2.750" 3/8-24 RH	-	10T81203	1.500"	3/8-24 RH		
	1/4"	10T81204	2.750"	3/8-24 LH		
5 (4 0 H 4 0 T 1 0 1 C 0 2 D H	1/4"	10T81205	2.750"	3/8-24 RH		
5/16" 101101603 3.000" 1/2-20 RH	5/16"	10T101603	3.000"	1/2-20 RH		
3/8" 10T121603 3.000" 1/2-20 RH	3/8"	10T121603	3.000"	1/2-20 RH		

Larger sizes also available. Please call for details.





Adjust-A-Jaw® Tensioners

How it works.

Use our fixed tabs or threaded tabs (page 28) or lag eyes (page 29) to mount Adjust-A-Jaw® tensioners to your end posts. Or you can mount them using flat bar or angle iron welded to your post with holes drilled to accept the clevis. See the tabulated drawing and chart below to determine how this fitting interfaces with your end post.

The clevis has a male thread that mates with the female thread within the body of the tensioner. The swaging ferrule is swaged onto the cable

and holds the cable inside the body. The body rotates on the cable and provides a considerable amount of take-up during tensioning with an open-end wrench.

After tensioning, the lock nut locks the assembly in place.

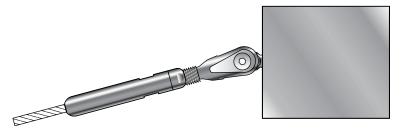
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CONTAIN AT LEAST
65% RECYCLED
CONTENT, HELPING

YOU QUALIFY FOR

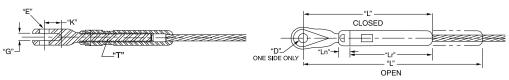


Use on level runs or stairs.

Adjust-A-Jaw® tensioners are precision machined, streamlined devices that are used where a high-tech look is desired, where you may wish to see hardware on your railing, or where you are unable to access the back of the end post.



Adjust-A-Jaw® tensioners have no sharp edges, no crevices to collect dust and dirt, or anything that will scratch or snag.



ADDOC! ADAM												316SS
CABLE DIA.	PART NO.	USE WITH FERRULE NO.*	USE WITH SCREW NO.*	"E" THREAD	"T"	"G"	"K"	"L" CLOSED	"L" OPEN	"Ln"	"Lr"	"D" DIA.
1/8"	20AAJ4	20FF4	11HBS8	1/4-28	5/16-24 LH	.260"	.56"	4.30"	5.99"	.375"	2.75"	.260"
3/16"	20AAJ4	20FF6	11HBS8	1/4-28	5/16-24 LH	.260"	.56"	4.30"	5.99"	.375"	2.75"	.260"
1/4"	20AAJ8	20FF8	11HBS12	3/8-24	7/16-20 LH	.313"	.75"	4.87"	6.43"	.500"	3.00"	.390"
5/16"	20AAJ10	20FF10	11HBS12	3/8-24	9/16-18 RH	.348"	.87"	6.74"	9.28"	.620"	4.50"	.390"
3/8"	20AAJ10	20FF12	11HBS12	3/8-24	9/16-18 LH	.348"	.87"	6.74"	9.28"	.620"	4.50"	.390"

*Order Ferrule and Screw separately



Adjust-A-Body® Tensioners

How it works.

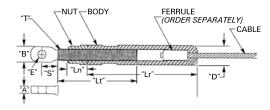
The mounting end on each of our Adjust-A-Body® tensioners has a male thread that mates with the female thread within the body of the tensioner. The swaging ferrule is swaged onto the cable and holds the cable inside the body. The body rotates on the cable and provides a considerable amount of take-up during tensioning with an open-end wrench. After tensioning, the lock nut locks the assembly in place.



Adjust-A-Body® with Threaded Eye Tensioner

Used on angled or straight runs. You can use our fixed tabs or threaded tabs (page 28) or lag eyes (page 29), to mount this tensioner to your end posts. Or you can mount them using flat bar or angle iron welded to your post with drilled holes. See the tabulated drawing and chart below to determine how this fitting interfaces with your end post.





SWAGE 316SS

SWAGE 316SS

ADJUST-A-BODY® wit	h THREADED EY	E TENSIONER

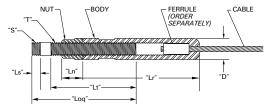
	ABLE DIA.	PART NO.	USE WITH FERRULE NO.*	USE WITH SCREW NO.*	"E" THREAD	"T"	"A"	"B"	"S"	"Lt"	"Ln"	"Lr"	"D"
	1/8"	20ATE4	20FF4	11HBS8	1/4-28	5/16-24 LH	.233"/.229"	.500"	.44"	2.00"	.375"	2.75"	.500"
3	3/16"	20ATE4	20FF6	11HBS8	1/4-28	5/16-24 LH	.233"/.229"	.500"	.44"	2.00"	.375"	2.75"	.500"
	1/4"	20ATE8	20FF8	11HBS12	3/8-24	7/16-20 LH	.295"/.285"	.844"	.68"	2.50"	.500"	3.00"	.625"

*Order Ferrule and Screw separately.

Adjust-A-Body® with Threaded Bolt Tensioner

Used on straight runs, this tensioner screws into a drilled and tapped hole in your metal post. There is no need for special tees with holes, welded tabs, or any other mounting device. Recommended for level runs using a minimum schedule 80 pipe or square or rectangular steel tubing with a minimum .250" wall.





 THREADED BOLT TENSIONER

CABLE DIA.	PART NO.	USE WITH FERRULE NO.*	"S"	"T"	"Ls"	"Lt"	"Loq"	"Ln"	"Lr"	"D"
1/8"	20ATB4	20FF4	5/16-24	5/16-24 LH	.375"	2.00"	2.625"	.375"	2.75"	.500"
3/16"	20ATB4	20FF6	5/16-24	5/16-24 LH	.375"	2.00"	2.625"	.375"	2.75"	.500"
1/4"	20ATB8	20FF8	5/16-24	7/16-20 LH	.375"	2.50"	3.125"	.500"	3.00"	.625"

*Order Ferrule separately.

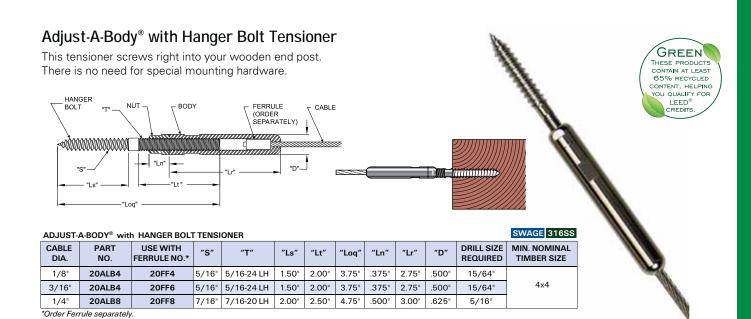




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65% RECYCLED
CONTENT, HELPING

YOU QUALIFY FOR



Adjust-A-Body® with Extended Length Hanger Bolt Tensioner

Same as the above tensioner, except the hanger bolt is 3" long, allowing you to penetrate deeper into the post or wall if necessary. Offered for use with 1/8" and 3/16" cable.

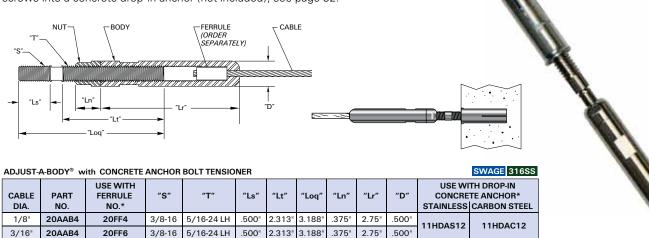


ADJUST-A-BODY® with EXTENDED LENGTH HANGER BOLT TENSIONER												3 1033
CABLE DIA.	PART NO.	USE WITH FERRULE NO.*	"S"	"T"	"Ls"	"Lt"	"Loq"	"Ln"	"Lr"	"D"	DRILL SIZE REQUIRED	MIN. NOMINAL TIMBER SIZE
1/8"	20AXLB4	20FF4	5/16"	5/16-24 LH	1.50"	2.00"	5.25"	.375"	2.75"	.500"	15/64"	4x4
3/16"	20AXLB4	20FF6	5/16"	5/16-24 LH	1.50"	2.00"	5.25"	.375"	2.75"	.500"	15/64"	484

*Order Ferrule separately:

Adjust-A-Body® with Concrete Anchor Bolt Tensioner

An easy, practical way to attach a tensioner to a concrete wall. The end screws into a concrete drop-in anchor (not included), see page 32.



2 75

3.00"

.625"

.500"

2 3 1 3 '

2.500"

3.938

1.125"

*Order Ferrule and Concrete Anchor separately.

20FF8

20AAB8

3/16

1/4"

15 7/1/11



11HDAC16

11HDAS16



Hanger **Bolt Driver**

See page 36.

CMACE 216CC

7/16-20 LH

1/2-13

Traditional Turnbuckles

TERMINATION STUD TURNBUCKLE

CRIMP 316SS ROD LENGTH 10A40110S 7.750 1/8 10A40110 1/4-28 4.250" 10.000 8.000 1.250" 1/8 10A40112S 1/4-28 2.750 8.750 7.500 .563 2.250" 1/8 10A40112 1/4-28 4.250 11.000 9.000' .563 2.250" 1/8" 10A40114 1/4-28 4.250" 13.000" 11.000 .563" 4.250" 1/8 10A40116 1/4-28 4.250 15.000 13.000 6.250 3/16" 10A60110S 1/4-28 2.750" 7.875" 6.625 563" 1.250" 3/16" 10A60110 1/4-28 4.250" 10.625" 8.625 1.250" 3/16" 10A60112S 1/4-28 2.750" 8.875" 7.625 2.250" 3/16" 10A60112 1/4-28 4.250" 11.125" 9.125 2.250" 10A60114 1/4-28 4.250" 13.125" 11.125 4.250" 3/16" 10A60116 1/4-28 4.250" 15.125" 6.250

This system supports any type of post with wire sizes ranging from 1/8" to 1/4". Termination Rods are available for up to 12" thick post configurations. In addition to new projects, the system is a choice for retrofitting existing rails to meet current codes.

TERMINATION STUD TURNBUCKLE

TERMINATION STOP TORNSBUCKLE SWAGE											
CABLE DIA.	PART NO.	"B" THREAD	"D" BODY	"E" OPEN CLOSED		"A" CAP SIZE	"R" ROD LENGTH				
1/8"	10A40100S	1/4-28	2.750"	7.000"	5.750"	.563"	1.250"				
1/8"	10A40100	1/4-28	4.250"	9.250"	7.250"	.563"	1.250"				
1/8"	10A40102S	1/4-28	2.750"	8.000"	6.750"	.563"	2.250"				
1/8"	10A40102	1/4-28	4.250"	10.250"	8.250"	.563"	2.250"				
1/8"	10A40104	1/4-28	4.250"	12.250"	10.250"	.563"	4.250"				
1/8"	10A40106	1/4-28	4.250"	14.250"	12.250"	.563"	6.250"				
5/32"	10A50100S	1/4-28	2.750"	7.500"	6.250"	.563"	1.250"				
5/32"	10A50100	1/4-28	4.250"	10.250"	8.250"	.563"	1.250"				
5/32"	10A50102S	1/4-28	2.750"	8.500"	7.250"	.563"	2.250"				
5/32"	10A50102	1/4-28	4.250"	10.750"	8.750"	.563"	2.250"				
5/32"	10A50104	1/4-28	4.250"	12.750"	10.750"	.563"	4.250"				
5/32"	10A50106	1/4-28	4.250"	14.750"	12.750"	.563"	6.250"				
3/16"	10A60100S	1/4-28	2.750"	7.500"	6.250"	.563"	1.250"				
3/16"	10A60100	1/4-28	4.250"	10.250"	8.250"	.563"	1.250"				
3/16"	10A60102S	1/4-28	2.750"	8.500"	7.250"	.563"	2.250"				
3/16"	10A60102	1/4-28	4.250"	10.750"	8.750"	.563"	2.250"				
3/16"	10A60104	1/4-28	4.250"	12.750"	10.750"	.563"	4.250"				
3/16"	10A60106	1/4-28	4.250"	14.750"	12.750"	.563"	6.250"				
3/16"	10A60108	5/16-24	4.750"	11.250"	9.250"	.563"	2.250"				
1/4"	10A80102	5/16-24	4.750"	11.750"	9.750"	.563"	2.250"				

Termination Stud Turnbuckle

Threaded Termination Turnbuckle



THREADED TERMINATION STUD TURNBUCKLE

Design for ease of installation in a "confined space". Accepts a wide range of end fitting options. (See pages 30-31). This system supports any type of post with wire sizes ranging from 1/8" to 3/8" **Threaded Termination** Rods are available for up to 12" thick post configurations.

	HANDY C	KIMP*					CRIMP 316SS
	CABLE DIA.	PART NO.	"B" THREAD	"D" BODY	OPEN "	E" CLOSED	"R" ROD LENGTH
ı	1/8"	10A40510S	1/4-28	2.750"	7.750"	6.500"	1.250"
ĺ	1/8"	10A40510	1/4-28	4.250"	10.000"	8.000"	1.250"
ı	1/8"	10A40512S	1/4-28	2.750"	8.750"	7.500"	2.250"
Ì	1/8"	10A40512	1/4-28	4.250"	11.000"	9.000"	2.250"
ı	1/8"	10A40514	1/4-28	4.250"	13.000"	11.000"	4.250"
	1/8"	10A40516	1/4-28	4.250"	15.000"	13.000"	6.250"
	3/16"	10A60510S	1/4-28	2.750"	7.875"	6.625"	1.250"
	3/16"	10A60510	1/4-28	4.250"	10125"	8.125"	1.250"
	3/16"	10A60512S	1/4-28	2.750"	8.875"	7.625"	2.250"
	3/16"	10A60512	1/4-28	4.250"	11.125"	9.125"	2.250"
	3/16"	10A60514	1/4-28	4.250"	13.125"	11.125"	4.250"
	3/16""	10A60516	1/4-28	4.250"	15.125"	13.125"	6.250"
	¥ m	445000411					

THREAD	THREADED TERMINATION STUD TURNBUCKLE										
CABLE	PART	"B"	"D"		E"	"R"					
DIA.	NO.	THREAD	BODY	OPEN	CLOSED	ROD LENGTH					
1/8"	10A40500S	1/4-28	2.750"	7.000"	5.750"	1.250"					
1/8"	10A40500	1/4-28	4.250"	9.250"	7.250"	1.250"					
1/8"	10A40502S	1/4-28	2.750"	8.000"	6.750"	2.250"					
1/8"	10A40502	1/4-28	4.250"	10.250"	8.250"	2.250"					
1/8"	10A40504	1/4-28	4.250"	12.250"	10.250"	4.250"					
1/8"	10A40506	1/4-28	4.250"	14.250"	12.250"	6.250"					
5/32"	10A50500S	1/4-28	2.750"	7.500"	6.250"	1.250"					
5/32"	10A50500	1/4-28	4.250"	9.750"	7.750"	1.250"					
5/32"	10A50502S	1/4-28	2.750"	8.500"	7.250"	2.250"					
5/32"	10A50502	1/4-28	4.250"	10.750"	8.750"	2.250"					
5/32"	10A50504	1/4-28	4.250"	12.750"	10.750"	4.250"					
5/32"	10A50506	1/4-28	4.250"	14.750"	12.750"	6.250"					
3/16"	10A60500S	1/4-28	2.750"	7.500"	6.250"	1.250"					
3/16"	10A60500	1/4-28	4.250"	9.750"	7.750"	1.250"					
3/16"	10A60502S	1/4-28	2.750"	8.500"	7.250"	2.250"					
3/16"	10A60502	1/4-28	4.250"	10.750"	8.750"	2.250"					
3/16"	10A60504	1/4-28	4.250"	12.750"	10.750"	4.250"					
3/16"	10A60506	1/4-28	4.250"	14.750"	12.750"	6.250"					
3/16"	10A60508	5/16-24	4.750"	11.250"	9.250"	2.250"					
1/4"	10A80502	5/16-24	4.750"	11.750"	9.750"	2.250"					
5/16"	10A100502	1/2-20	6.500"	15.250"	13.000"	2.250"					
3/8"	10A120502	1/2-20	6.500"	15.313"	13.063"	2.250"					

"A" See End Fitting Options, pages 30-31.



The "Lag" cable tensioning system has been developed for direct attachment to wood surface with a minimum of 3" of wood blocking for full thread engagement. Holes are simply pre-drilled into the connecting wood surface and the lag is threaded into the hole. The strength of the cable assembly is limited to the lag holding power and mounting material (solid wood blocking is required). Lag hardware is only recommended for light duty use and not for commercial use.

For matching Non-Tensioning Fittings, see page 22.

LAG STU	LAG STUD TURNBUCKLE SWAGE 316S								
CABLE DIA.	PART NO.	"B" THREAD	"D" BODY	OPEN "	E" CLOSED				
1/8"	10A40602S	1/4-28	2.750"	5.875"	4.625"				
1/8"	10A40602	1/4-28	4.250"	7.750"	5.750"				
5/32"	10A50602S	1/4-28	2.750"	6.375"	5.125"				
5/32"	10A50602	1/4-28	4.250"	8.250"	6.250"				
3/16"	10A60602S	1/4-28	2.750"	6.375"	5.125"				
3/16"	10A60602	1/4-28	4.250"	8.250"	6.250"				
3/16"	10A60604	5/16-24	4.750"	9.500"	7.500"				
1/4"	10A80602	5/16-24	4.750"	10.000"	8.000"				

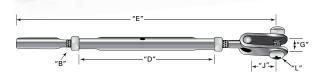
HANDY C	RIMP*		CRI	MP 316SS		
1/8"	10A40612S	1/4-28	2.750"	6.625"	5.375"	
1/8" 10A40612		1/4-28 4.250"		8.500"	6.500"	
3/16"	10A60612S	1/4-28	2.750"	6.750"	5.500"	
3/16"	10A60612	1/4-28	4.250"	8.625"	6.625"	

*Requires 11THCT1 Handy Crimp Tool, See Tools, page 36









Utilizing "Clevis" style ends for cable attachment, this system allows for connection to eye bolts, tee-stock, angle iron, flat bars, loops, etc. The toggling feature allows for angled takeoff without the use of additional hardware. Toggle ends come standard with screw and lock nut; however, also available with clevis pin, with cotter pin or ring pin upon request. For matching Non-Tensioning Fittings, use Series 10, page 22.

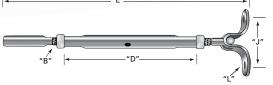
TOGGLE	OGGLE JAW TURNBUCKLE SWAGE 316SS									
CABLE DIA.	PART NO.	"B" THREAD			E" CLOSED	"J" JAW DEPTH	"L" SCREW SIZE	"G" JAW WIDTH		
1/8"	10A40200	10-32	3.500"	8.500"	6.000"	.563"	#10	.250"		
1/8"	10A40202S	1/4-28	2.750"	7.375"	6.125"	.875"	.250"	.250"		
1/8"	10A40202	1/4-28	4.250"	9.625"	7.625"	.875"	.250"	.250"		
5/32"	10A50202S	1/4-28	2.750"	7.875"	6.625"	.875"	.250"	.250"		
5/32"	10A50202	1/4-28	4.250"	10.125"	8.125"	.875"	.250"	.250"		
3/16"	10A60202S	1/4-28	2.750"	7.875"	6.625"	.875"	.250"	.250"		
3/16"	10A60202	1/4-28	4.250"	10.125"	8.125"	.875"	.250"	.250"		
3/16"	10A60204	5/16-24	4.750"	11.000"	9.000"	.875"	.313"	.313"		
1/4"	10A80202	5/16-24	4.750"	11.500"	9.500"	.875"	.313"	.313"		
1/4"	10A80204	3/8-24	5.250"	12.250"	10.250"	1.063"	.375"	.375"		

HAND	HANDY CRIMP* CRIMP 316SS									
1/8	10A40212S	1/4-28	2.750"	8.250"	7.250"	.875"	.250"	.250"		
1/8	10A40212	1/4-28	4.250"	10.250"	8.250"	.875"	.250"	.250"		
3/16	10A60212S	1/4-28	2.750"	8.375"	7.375"	.875"	.250"	.250"		
3/16	" 10A60212	1/4-28	4.250"	10.375"	8.375"	.875"	.250"	.250"		
W.D.	445000411					•	•	•		

Requires 11THCT1 Handy Crimp Tool. See Tools, page 36

Deck Toggle Turnbuckle





Deck toggles provide a face-mount solution while allowing for angled takeoff. The deck toggle fittings are attached utilizing two screws through the deck toggle base. The mounting surfaces include wood posts or blocking, on either side of a common post by through-bolting, or drilling and tapping a metallic post. The articulation range of this deck toggle end fittings is greater than 180 degrees. The strength of the cable assembly is limited to the screw strength and attaching base material. For matching Non-Tensioning Fittings, use Series 10, page 22.

DECK TO	DECK TOGGLE TURNBUCKLE SWAGE 316SS										
CABLE	PART	"B"	"D"		E"	"J"	"L"				
DIA.	NO.	THREAD	BODY	OPEN	CLOSED	HOLE SPACING	SCREW SIZE				
1/8"	10A40402S	1/4-28	2.750"	7.000"	5.750"	1.500"	.250"				
1/8"	10A40402	1/4-28	4.250"	9.250"	7.250"	1.500"	.250"				
5/32"	10A50402S	1/4-28	2.750"	7.500"	6.250"	1.500"	.250"				
5/32"	10A50402	1/4-28	4.250"	9.750"	7.750"	1.500"	.250"				
3/16"	10A60402S	1/4-28	2.750"	7.500"	6.250"	1.500"	.250"				
3/16"	10A60402	1/4-28	4.250"	9.750"	7.750"	1.500"	.250"				
3/16"	10A60404	5/16-24	4.750"	10.500"	8.500"	1.750"	.313"				
1/4"	10A80402	5/16-24	4.750"	11.000"	9.000"	1.750"	.313"				
1/4"	10A80404	3/8-24	5.250"	11.750"	9.500"	2.000"	.375"				

HANDY	HANDY CRIMP*										
1/8"	10A40412S	1/4-28	2.750"	7.625"	6.625"	1.500"	.250"				
1/8"	10A40412	1/4-28	4.250"	9.875"	8.000"	1.500"	.250"				
3/16"	10A60412S	1/4-28	2.750"	7.750"	6.750"	1.500"	.250"				
3/16"	10A60412	1/4-28	4.250"	10.000"	8.125"	1.500"	.250"				
3/16"	10A60414	5/16-24	4.750"	10.625"	8.500"	1.750"	.313"				

For Mounting Hardware, see page 32.

Swage to Swage Turnbuckle



The Swage to Swage Turnbuckles are applied in longer cable runs with spacing approximately 30'-40', ensuring that proper tensioning of a cable assembly can be achieved. Additionally, these assemblies can be positioned to achieve a certain desired look in shorter cable runs. These fittings are fully compatible with any of our termination style fittings. An additional fitting is required on both ends of the cable to complete the assembly.

SWAGE TO SWAGE TURNBUCKLE SWAGE 316S								
CABLE	PART	"B"	"D"		E"			
DIA.	NO.	THREAD	BODY	OPEN	CLOSED			
1/8"	10A40302S	1/4-28	2.750"	6.875"	5.625"			
1/8"	10A40302	1/4-28	4.250"	9.250"	7.250"			
5/32"	10A50302S	1/4-28	2.750"	7.875"	6.625"			
5/32"	10A50302	1/4-28	4.250"	10.250"	8.250"			
3/16"	10A60302S	1/4-28	2.750"	7.875"	6.625"			
3/16"	10A60302	1/4-28	4.250"	10.250"	8.250"			
3/16"	10A60304	5/16-24	4.750"	11.250"	9.250"			
1/4"	10A80302	5/16-24	4.750"	12.250"	10.250"			

HANDY CRIMP* CRIMP 316SS								
1/8"	10A40312S	1/4-28	2.750"	8.375"	7.125"			
1/8"	10A40312	1/4-28	4.250"	10.750"	8.750"			
3/16"	10A60312S	1/4-28	2.750"	8.500"	7.250"			
3/16"	10A60312	1/4-28	4.250"	10.875"	8.875"			

*Requires 11THCT1 Handy Crimp Tool, See Tools, page 36





Decko Turnbuckles

The Decko Turnbuckles offer a simple smooth appearance and are a great choice when a contemporary look is desired.



Utilizing "Clevis" style ends for cable attachment, this system allows for connection to eye bolts, tee-stock, angle iron, flat bars, loops, etc. The toggling feature allows for angled takeoff without the use of additional hardware. Toggle ends come standard with a clevis pin and ring pin, however, also available with screw and lock nut upon request. For matching Non-Tensioning Fitting, use Series 15, page 22.

DECKO T	DECKO TOGGLE JAW TURNBUCKLE SWAGE 316SS											
CABLE DIA.	PART NO.	"B" THREAD	"D" BODY	OPEN "	E" CLOSED	"J" JAW DEPTH	"I" PIN SIZE	"G" JAW WIDTH				
1/8"	15A40202D	1/4-28	3.00"	9.375"	7.875"	.8750"	.250"	.250"				
3/16"	15A60202D	1/4-28	3.00"	10.000"	8.500"	.8750"	.250"	.250"				
HANDY C	HANDY CRIMP* CRIMP 316SS											
1/8"	15A40212D	1/4-28	3.00"	10.000"	8.500"	.8750"	.250"	.250"				

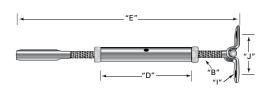
3.00" 10.375" 8.875"

equires 11THCT1 Handy Crimp Tool. See Tools, page 3

3/16" **15A60212D** 1/4-28

Decko Deck Toggle Turnbuckle

Deck toggles provide a face-mount solution while allowing for angled takeoff. The deck toggle fittings are attached utilizing two screws through the deck toggle base. The mounting surfaces include wood posts or blocking, on either side of a common post by through-bolting, or drilling and tapping a metallic post. The articulation range of this deck toggle end fitting is 140 degrees. For matching Non-Tensioning Fitting, use Series 15, page 22.

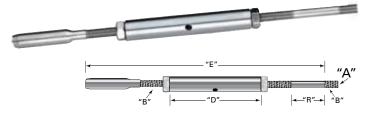


DECKO D	DECKO DECK TOGGLE TURNBUCKLE SWAGE 316									
CABLE DIA.	PART NO.	"B" THREAD	"D" BODY	OPEN "	E" CLOSED	"K" HOLE SPACING	"I" SCREW SIZE			
1/8"	15A40402D	1/4-28	3.00"	8.625"	7.125"	1.313"	.250"			
3/16"	15A60402D	1/4-28	3.00"	9.250"	7.750"	1.313"	.250"			
HANDY C	CRIMP*						CRIMP 316SS			
1/8"	15A40412D	1/4-28	3.00"	9.250"	7.750"	1.313"	.250"			
3/16"	15A60412D	1/4-28	3.00"	9.625"	8.125"	1.313"	.250"			
*Requires	11THCT1 Hand	ly Crimp Tool. S	See Tools, j	page 36.	•	•				

For Mounting Hardware, see page 32.

3/16" 15A60514D

Decko Threaded Termination Turnbuckle



Design for ease of installation in a "confined space". Accepts a wide range of end fitting options. (See pages 30-31). This system supports any type or style of post with available wire sizes of 1/8" or 3/16". Threaded Termination Rods are available for up to 3-1/2"-thick post configurations.

SWAGE 316SS DECKO THREADED TERMINATION TURNBUCKLE THREAD BODY OPEN CLOSED ROD LENGTH 15A40502D 1/4-28 9.125 1.500 15A40504D 11.125 3.500 3.00 9.625 15A60502D 1/4-28 3.00" 9.750 8.250 1.500" 15A60504D 11.750" 3.500" MP 316SS 15A40512D 8.250 1/4-28 3.00" 9.750" 1.500 15A40514D 1/4-28 11.750" 10.250 3.00" 3.500 15A60512D 1/4-28 3.00" 10.125" 8.625 1.500

3.00" 12.125" 10.625"

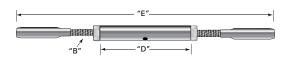
3.500"

1/4-28 "A" See End Fitting Options, pages 30-31.

Decko Swage to Swage Turnbuckle



The Swage to Swage Turnbuckles are applied in longer cable runs with spacing approximately 30'-40' ensuring that proper tensioning of a cable assembly can be achieved. Additionally, these assemblies can be positioned to achieve a certain desired look in shorter cable runs. These fittings are fully compatible with any of our termination style fittings. An additional fitting is required on both ends of the cable to complete the assembly.



DECKO S	WAGE TO SWA	(LE	SWAGE 316SS			
CABLE DIA.	PART NO.	"B" THREAD	"D" BODY	"E" OPEN CLOSED		
1/8"	15A40302D	1/4-28	3.00"	9.500"	8.000"	
3/16"	15A60302D	1/4-28	3.00"	10.625"	9.125"	
HANDY (CRIMP*			CR	1MP 316SS	
1/8"	15A40312D	1/4-28	3.00"	10.375"	8.875"	
3/16"	15A60312D	1/4-28	3.00"	11.125"	9.625"	
*D :	4 4 TUOT 4 LL	O: T 1	T /.	- 00	•	

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Smoothline Turnbuckles

Smoothline Style turnbuckles have no exposed threads and allow the cable to terminate internally inside the body of the turnbuckle. They look smooth on the outside but hide their essentials internally. This style works well with cable spans up to 25'. For matching Non-Tensioning Fittings, see Smoothline Terminals, page 23.



Utilizing "Clevis" style ends for cable attachment, this system allows for connection to eye bolts, tee-stock, angle iron, flat bars, loops, etc. The toggling feature allows for angled takeoff without the use of additional hardware. Toggle ends come standard with a clevis pin and ring pin; also available with screw and lock nut upon request.

SMOOTH	SMOOTHLINE TOGGLE JAW TURNBUCKLE SWAGE 316SS										
CABLE DIA.	PART NO.	"D" BODY	"E" OPEN CLOSED		"J" JAW DEPTH	"I" PIN SIZE	"G" JAW WIDTH				
1/8"	15A40202SL	4.75"	7.750"	6.500"	.875"	.250"	.250"				
3/16"	15A60202SL	4.75"	7.750"	6.500"	.875"	.250"	.250"				
1/4"	15A80202SL	4.75"	8.750"	7.500"	1.000"	.313"	.313"				
HANDY C	HANDY CRIMP* CRIMP 316SS										
1/8"	15A40212SL	4.75"	7.750"	6.500"	.875"	.250"	.250"				
3/16"	15A60212SL	4.75"	7.750"	6.500"	.875"	.250"	.250"				

*Requires 11THCT1 Handy Crimp Tool. See Tools, page 36.

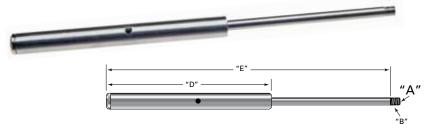


Deck toggles provide a face-mount solution while allowing for angled takeoff. The deck toggle fittings are attached utilizing two screws through the deck toggle base. The mounting surfaces include wood posts or blocking, either side of a common post by through-bolting, or drilling and tapping a metallic post. The articulation range of this deck toggle end fitting is 140 degrees.

SMOOTH	MOOTHLINE DECK TOGGLE TURNBUCKLE									
CABLE DIA.	PART NO.	"D" BODY	"E" OPEN CLOSED		"K" HOLE SPACING	"I" SCREW SIZE				
1/8"	15A40402SL	4.75"	7.000"	5.750"	1.313"	.250"				
3/16"	15A60402SL	4.75"	7.000"	5.750"	1.313"	.250"				
1/4"	15A80402SL	4.75"	8.000"	6.750"	1.500"	.313"				
HANDY (HANDY CRIMP* CRIMP 316SS									
1/8"	15A40412SL	4.75"	7.000"	5.750"	1.313"	.250"				
2 /16"	15/60/1201	4.76"	7.000*	5.75O"	1 212	250"				

*Requires 11THCT1 Handy Crimp Tool, See Tools, page 36 For Mounting Hardware, see page 32.

Smoothline Threaded Termination Turnbuckle



Designed for ease of installation in a "confined space". Accepts a wide range of end fitting options. (See pages 30-31). This system supports any type or style of post with available wire sizes of 1/8", 3/16" or 1/4". Will accommodate up to 3-1/2"-thick post configurations.

Smoothline Threaded Stud

SMOOTHLINE THREADED TURNBUCKLE SWAGE 316SS CABLE PART NO BODY OPEN CLOSED 1/8' 15A40502SL 1/4-28 4.750" 9.375 8.125" 15A60502SL 1/4-28 4.750" 9.375 8.125" 15A80502SL 5/16-24 8.500"

4.750

9.375

9.375"

8.125"

"A" See End Fitting Options, pages 30-31.

1/4-28 3/16" **15A60512SL** 1/4-28 4.750"

15A40512SL

<u> </u>	"E"

The Smoothline Threaded Stud provides a hidden cable attachment by allowing the cable to terminate internally. Simple and clean, it will accommodate up to 3-1/2"-thick post configurations.

SMOOTH	VAGE 316SS			
CABLE DIA.	PART NO.	"B" THREAD	"D" THREAD LENGTH	"E" LENGTH
1/8"	15T40805SL	1/4-28	2.500"	6.250"
1/8"	15T40807SL	1/4-28	2.500"	8.625"
3/16"	15T60805SL	1/4-28	2.500"	6.250"
3/16"	15T60807SL	1/4-28	2.500"	8.625"
1/4"	15T81005SL	5/16-24	3.000"	5.750"
1/4"	15T81007SL	5/16-24	6.000"	8.500"
HANDY C	RIMP*		С	RIMP 316SS
1/8"	15T40815SL	1/4-28	2.500"	6.250"
1/8"	15T40817SL	1/4-28	2.500"	8.625"
3/16"	15T60815SL	1/4-28	2.500"	6.250"
3/16"	15T60817SL	1/4-28	2.500"	8.625"

*Requires 11THCT1 Handy Crimp Tool. See Tools, page 36.





Non-Tensioning Fittings



Where to use these fittings.

Often you do not need a tensioning device on both ends of your cable. This applies where your run is relatively short or where you are cutting and swaging the cables on site (and can get more precise measurements than having the cables pre-cut by the factory).

Invisiware® Radius Ferrule

Often used in combination with the Invisiware® receiver (page 11), *this fitting is also hidden inside the end post* with only the head exposed on the outside of the post. When installed, it looks the same as the Invisiware® receiver except it costs much less.

Invisiware® radius ferrules are used with pipe and with round, square or rectangular metal tubing. Pipe ends are counterbored, so the full perimeter of the head rests on

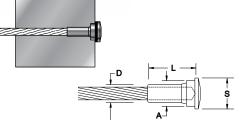
3/8"

20FRF12

a flat surface in the pipe. The head rests on the outside wall of a flat-sided metal post. A plastic washer is included and acts as a scratch-resistant barrier between the head of the fitting and the metal post.

For use in wood, the Invisiware® radius ferrule can rest against the outside of the post or the post can be counterbored with the radius ferrule recessed in the post. For wood applications, also order a Stainless Steel Washer, Part No. 11HW14 (page 31).





SWAGE 316SS **INVISIWARE® RADIUS FERRULE** CABLE "D" DIAMETER "L" LENGTH "S" HEAD 'A" SHOULDER PART DIAMETER DIAMETER DIA. NO. AFTER SWAGED AFTER SWAGED 1/8" 20FRF4 250 .750" .537 .437 3/16" 20FRF6 .250" .750" .537' .437" 1/4" 20FRF8 375 1 000 531 5/16' 20FRF10 .500' 1.000" .865 .687

1.000"

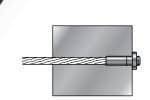


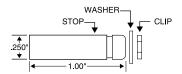
Ideal for use with cables that are cut and the fittings are attached at the factory. Intermediate posts can be drilled for the 1/4" stop to pass through. **No field swaging is required.** Or you can swage them in the field if you wish. A special clip and washer secure the stop to the end of the cable.

.500'

Pipe or round tubing end posts are counterbored so the full perimeter of the head of the stop rests on a flat surface in the pipe. The stop rests against the outside wall of a flat-sided post.

For swaging at the factory, determine the hardware to use on the tensioning end of the cable, then check with the factory to determine the cable lengths to be provided with the swaged fittings attached. Stop, washer and clip are included. Available for 1/8" and 3/16" cable.





CLIP-ON S	SWAGE 316SS		
CABLE DIA.	FOR USE WITH	PART NO.	WASHER DIAMETER
1/8"	WOOD POST	20ACS4W	E0 (64" / 022")
3/16"	WOOD POST	20ACS6W	59/64" (.922")
1/8"	METAL POST	20ACS4M	15 (22 / 460
3/16"	METAL POST	20ACS6M	15/32" (.468")

.865

.687



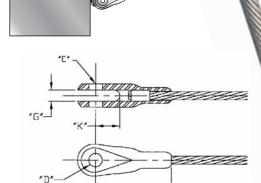
CAI Fixed Jaw

Often used with our Adjust-A-Jaw® tensioner (page 13), because it is shaped to match the clevis end on the Adjust-A-Jaw® tensioner but costs considerably less. It can be used on level runs and on stairs and severe pitches.

The CAI Fixed Jaw also makes an attractive fitting where a high-tech look is desired, where you may wish to see hardware on your railing, or there is no access to the back of the end post.

Use our fixed tabs or threaded tabs (page 28) or lag eyes (page 29) to mount the CAI Fixed Jaw fittings to your end posts. Or you can mount them using flat bar or angle iron welded to your post with holes drilled to accept the clevis. See the tabulated drawing and chart below to determine how this fitting interfaces with your end post.





SWAGE 316SS

FIXED	JAW

CABLE DIA.			USE WITH SCREW NO.*	"D" DIA.	"E" THREAD	"G"	"K"	"L"
1/8"	20FFJ4	20FF4	11HBS8	.260"	1/4-28	.260"	.56"	1.75"
3/16"	20FFJ4	20FF6	11HBS8	.260"	1/4-28	.260"	.56"	1.75"
1/4"	20FFJ8	20FF8	11HBS12	.390"	3/8-24	.313"	.75"	2.12"
5/16"	20FFJ10	20FF10	11HBS12	.390"	3/8-24	.348"	.87"	2.25"
3/8"	20FFJ10	20FF12	11HBS12	.390"	3/8-24	.348"	.87"	2.25"

^{*}Order Ferrule and Screw separately.

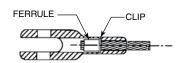
CAI Clip-on Fixed Jaw

Same as our CAI Fixed Jaw fittings, except the cable is attached to the fitting with a special clip that is installed on site by hand. The cable is supplied by the factory with a tensioner on one end and a ferrule on the other end. *There is no field swaging.* You simply slip the ferrule end of the cable through the body of the fixed jaw, slip on the special clip, then pull the cable back through the body to secure the cable inside. Check with the factory to determine cable lengths to be supplied with swaged fittings. Available for 1/8" and 3/16" cable only.

CLIP-ON F	SWAG	316SS						
CABLE PART DIA. NO.		USE WITH FERRULE NO.*	USE WITH SCREW NO.*	"D" "E" "G"		"G"	"K"	"L"
1/8"	20ACFJ4	20FF4	11HBS8	.260"	1/4-28	.260"	.56"	1.75"
3/16"	20ACFJ6	20FF6	11HBS8	.260"	1/4-28	.260"	.56"	1.75"

^{*}Order Ferrule and Screw separately.

See Fixed Jaw drawing above.



Illustrated with an Adjust-A-Jaw® tensioner on the other end

(see page 13).

GREEN

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VOU QUALIFY FOR LEED®





Non-Tensioning Fittings

GREEN THESE PRODUCTS CONTAIN AT LEAST

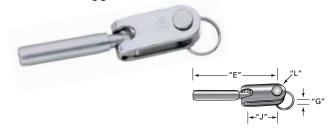




SERIES 1	SWAGE 316S						
CABLE DIA.	PART NO.	"E" LENGTH	"J" JAW DEPTH	"L" SCREW SIZE	"G" JAW WIDTH		
1/8"	10F40200	3.063"	.438"	#10	.250"		
1/8"	10F40202	3.500"	.688"	.250"	.250"		
5/32"	10F50202	3.500"	.688"	.250"	.250"		
3/16"	10F60202	3.438"	.688"	.250"	.250"		
3/16"	10F60204	3.875"	.688"	.313"	.313"		
1/4"	10F80202	4.188"	.688"	.313"	.313"		
1/4"	10F80204	4.625"	.938"	.375"	.375"		
HANDY CRIMP* CRIMP 316SS							

^{1/8&}quot; 10F40212 4.250" 3/16" 10F60212 3.938"

Series 15 Toggle Jaw



SERIES 1	5 TOGGLE JAW	•		S	WAGE 316SS				
CABLE DIA.	PART NO.	"E" LENGTH	"J" JAW DEPTH	"L" PIN SIZE	"G" JAW WIDTH				
1/8"	15F40202	3.188"	.688"	.250"	.250"				
3/16"	15F60202	3.313"	.688"	.250"	.250"				
1/4"	15F80202	3.250"	.688"	.313"	.313"				
1/4"	15F80204	3.750"	.688"	.375"	.375"				
HANDY (HANDY CRIMP* CRIMP 316S								
1/8"	15F40212**	3.188"	.688"	.250"	.250"				
3/16" 15F60212		3.688"	.688"	.250"	.250"				

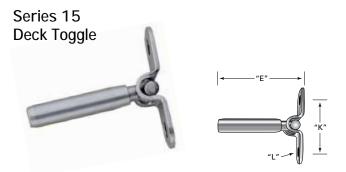




OLILLO .	STAGE STOOL					
CABLE DIA.	PART NO.	"E" LENGTH	"L" HOLE SIZE	"K" HOLE SPACING		
1/8"	10F40402	3.125"	.250"	1.500"		
5/32"	10F50402	3.000"	.250"	1.500"		
3/16"	10F60402	3.000"	.250"	1.500"		
3/16"	10F60404	3.500"	.313"	1.750"		
1/4"	10F80402	3.875"	.313"	1.750"		
1/4"	10F80404	4.000"	.375"	2.000"		
HANDY CRIMP* CRIMP 31						
1/8"	10F40412	3.625"	.250"	1.500"		

^{*}Requires 11THCT1 Handy Crimp Tool. See Tools, page 36.
For Mounting Hardware, see page 32.

3/16" **10F60412**



SERIES 1	SWAGE 316SS			
CABLE DIA.	PART NO.	"E" LENGTH	"L" HOLE SIZE	"K" HOLE SPACING
1/8"	15F40402	2.125"	.250"	1.313"
3/16"	15F60402	2.125"	.250"	1.313"
1/4"	15F80402	3.250"	.313"	1.500"
HANDY (CRIMP*	CRIMP 316SS		
1/8"	15F40412**	2.750"	.250"	1.313"
3/16"	15F60412	3.000"	.250"	1.313"

Lag Swage Stud		HHHHHH >>
	THE PARTY OF THE P	

LAG SWAGE STUD SWAGE 316SS						
CABLE DIA.	PART NO.	"E" LENGTH				
1/8"	10F40602	2.750"				
5/32"	10F50602	2.688"				
3/16"	10F60602	2.688"				
1/4"	10F80602	3.250"				
HANDY C	RIMP* CR	MP 316SS				
1/8"	10F40612	3.000"				
3/16"	10F60612	3.375"				
*Requires 11THCT1 Handy Crimp Too See Tools, page 36.						



^{*}Requires 11THCT1 Handy Crimp Tool. See Tools,

^{**}Not a true 1/8" fitting, conversion sleeve included

^{*}Requires 11THCT1 Handy Crimp Tool. See Tools, page 36.

**Not a true 1/8" fitting, conversion sleeve included.

For Mounting Hardware, see page 32.

Smoothline Toggle Jaw

Smoothline **Deck Toggle**

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> CONTENT, HELPING
> YOU QUALIFY FOR
> LEED®



SMOOTH	ILINE TOGGLE J	AW		WAGE 316SS				
CABLE DIA.	PART NO.	"E" LENGTH	"J" JAW DEPTH	"L" PIN SIZE	"G" JAW WIDTH			
1/8"	15F40202SL	3.875"	.688"	.250"	.250"			
3/16"	15F60202SL	3.875"	.688"	.250"	.250"			
1/4"	15F80202SL	4.500"	.688"	.313"	.313"			
HANDY C	HANDY CRIMP* CRIMP 316SS							
1/8"	15F40212SL	3.875"	.688"	.250"	.250"			
3/16"	15F60212SL	3.875"	.688"	.250"	.250"			

^{*}Requires 11THCT1 Handy Crimp Tool. See Tools, page 36.

SMOOTHLINE DECK TOGGLE

PART NO.

15F40402SL

15F60402SL

15F80402SL

CABLE DIA.

1/8"

3/16"

1/4"

HANDY CRIMP

Termination Stud



TERMINA	TERMINATION STUD							
CABLE DIA.	PART NO.	"A" CAP SIZE	"T" CAP THICKNESS	"D" BODY DIA.	"E" BODY LENGTH			
1/8"	10F40102	.500"	.205"	.219"	1.625"			
5/32"	10F50102	.563"	.205"	.250"	1.906"			
3/16"	10F60102	.563"	.205"	.313"	1.938"			
1/4"	10F80102	.563"	.220"	.375"	2.550"			
5/16"	10F10102	.938"	.437"	.563"	3.625"			
3/8"	10F12102	.938"	.437"	.625"	3.687"			
HANDY C	HANDY CRIMP* CRIMP 316SS							
1/8"	10F40112	.500"	.205"	.213"	2.3125"			

^{.563&}quot; Requires 11THCT1 Handy Crimp Tool, See Tools, page 36

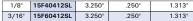
3/16" 10F60112

Countersunk Termination Stud



CABLE DIA.	PART NO.	"A" CAP SIZE	"C" ANGLE	"D" BODY DIA.	"E" BODY LENGTH
1/8"	10F40702	.500"	82"	.219"	1.50"
5/32"	10F50702	.563"	82°	.250"	1.75"
3/16"	10F60702	.563"	82°	.313"	1.75"

HANDY C	CRIMP 316SS				
1/8"	10F40712	.500"	82°	.213"	2.625"
3/16"	10F60712	.563"	82*	.294"	2.750"



"E" LENGTH

3.250

3.250

3.625

"L" HOLE SIZE

.250"

.250"

.313"

SWAGE 316SS

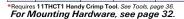
"K" HOLE SPACING

1.313"

1.313"

1.500"

RIMP 316SS



Threaded Termination Stud

*Requires 11THCT1 Handy Crimp Tool. See Tools, page 36.



THREADE	D TERMINATON	STUD	SWA	GE 316SS
CABLE DIA.	PART NO.	"B" THREAD	"D" BODY DIA.	"E" LENGTH
1/8"	10T40801	1/4-28	.219"	1.313"
5/32"	10T50801	1/4-28	.250"	1.750"
3/16"	10T60801	1/4-28	.313"	1.750"
3/16"	10T61001	5/16-24	.313"	1.750"
1/4"	10T81001	5/16-24	.375"	1.563"
HANDY C	RIMP*		CRIN	1P 316SS
1/8"	10T40811	1/4-28	.213"	2.000"
3/16"	10T60811	1/4-28	.294"	2.125"
*Requires	11THCT1 Hand	y Crimp To	ol. See Tools,	page 36.

"A" See End Fitting Options, pages 30-31.

23 7/1/11

Smoothline Threaded Termination Stud SWAGE 316SS CABLE DIA. "E" LENGTH THREAD NO. GREEN 10F40802SL 6.250" 1/8" 1/4-28 10F60802SL 6.250"

1/4"

877.664.4224 • 661.257.7522 • Fax 661.257.7502

10F80802SL

3/16" 10F60812SL 1/4-28

1/8" 10F40812SL

1/4-28

1/4-28

*Requires 11THCT1 Handy Crimp Tool. See Tools, page 36 "A" See End Fitting Options, pages 30-31.

6.250" 216SS

6.250"

28210 Avenue Crocker, Suite 307 • Valencia, CA 91355 Email: sales@cableart.com • Website: www.cableart.com





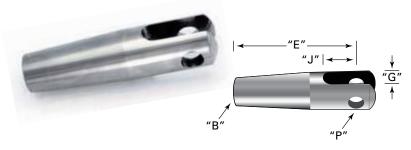
Architectural Rod Systems

Made from 316 grade stainless steel, this elegant fork system is used for both rod and cable applications and is engineered for strength as well as aesthetic appeal. The fork end fittings are offered from 1/4" – 2" pin diameter. The system includes left and right hand thread configurations as well as wrench flats to facilitate tensioning. Fork pin configurations include a standard clevis pin with cotter pin retention or an upgrade to a double headed clevis pin for a smooth look. Architectural lock nuts are engineered to complement the aesthetics of the mating fork assembly.

Rods custom made to your specifications.



Architectural Adjuster Fork



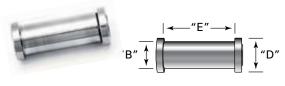
ARCHITECTURAL ADJUSTER FORK 316SS						
PART NO.	"B" THREAD	"E" LENGTH	"J" JAW DEPTH	"G" JAW WIDTH	"P" PIN SIZE	ADJUSTMENT
10FRF08L	1/4-28 LH	1.813"	.594"	.250"	.250"	.938"
10FRF08R	1/4-28 RH	1.813"	.594"	.250"	.250"	.938"
10FRF10L	5/16-24 LH	2.375"	.625"	.313"	.313"	1.250"
10FRF10R	5/16-24 RH	2.375"	.625"	.313"	.313"	1.250"
10FRF12L	3/8-24 LH	3.000"	.781"	.375"	.375"	1.625"
10FRF12R	3/8-24 RH	3.000"	.781"	.375"	.375"	1.625"
10FRF16L	1/2-20 LH	4.000"	1.125"	.500"	.500"	1.750"
10FRF16R	1/2-20 RH	4.000"	1.125"	.500"	.500"	1.750"
10FRF20L	5/8-18 LH	4.750"	1.250"	.625"	.625"	2.500"
10FRF20R	5/8-18 RH	4.750"	1.250"	.625"	.625"	2.500"
10FRF24L	3/4-16 LH	5.375"	1.500"	.750"	.750"	2.875"
10FRF24R	3/4-16 RH	5.375"	1.500"	.750"	.750"	2.875"
10FRF28L	7/8-14 LH	6.000"	1.750"	.875"	.875"	3.125"
10FRF28R	7/8-14 RH	6.000"	1.750"	.875"	.875"	3.125"
10FRF32L	1.0-12 LH	6.875"	2.000"	1.000"	1.000"	3.500"
10FRF32R	1.0-12 RH	6.875"	2.000"	1.000"	1.000"	3.500"

Architectural Adjuster Fork Lock Nut



ARCHITECTUR	7	31688		
PART NO.	"B" THREAD	"I" THICKNESS	"F" FLATS	OUTSIDE DIAMETER
10HRLN08L	1/4-28 LH	.188"	.313"	.375"
10HRLN08R	1/4-28 RH	.188"	.313"	.375"
10HRLN10L	5/16-24 LH	.313"	.625"	.500"
10HRLN10R	5/16-24 RH	.313"	.625"	.500"
10HRLN12L	3/8-24 LH	.281"	.750"	.563"
10HRLN12R	3/8-24 RH	.281"	.750"	.563"
10HRLN16L	1/2-20 LH	.375"	.875"	.875"
10HRLN16R	1/2-20 RH	.375"	.875"	.875"
10HRLN20L	5/8-18 LH	.438"	1.000"	1.125"
10HRLN20R	5/8-18 RH	.438"	1.000"	1.125"
10HRLN24L	3/4-16 LH	.500"	1.063"	1.250"
10HRLN24R	3/4-16 RH	.500"	1.063"	1.250"
10HRLN28L	7/8-14 LH	.500"	1.250"	1.563"
10HRLN28R	7/8-14 RH	.500"	1.250"	1.563"
10HRLN32L	1.0-12 LH	.563"	1.375"	1.625"
10HRLN32R	1.0-12 RH	.563"	1.375"	1.625"

Double-Headed Clevis Pin



DOUBLE-HEADED CLEVIS PIN 316SS					
PART NO.	"E" "B" LENGTH BODY DIA.		"D" HEAD DIA.		
10HFCP0820	.625"	.250"	.375"		
10HFCP1024	.750"	.313"	.438"		
10HFCP1228	.875"	.375"	.500"		
10HFCP1640	1.250"	.500"	.625"		
10HFCP2048	1.500"	.625"	.750"		
10HFCP2464	2.000"	.750"	.875"		
10HFCP2872	2.250"	.875"	1.000"		
10HFCP3280	2.500"	1.000"	1.250"		





Trellis System

Trellis System Hardware

Trellis system hardware made from 316-grade stainless steel is offered in 1/8" to 1/4" wire diameters. The system is designed to accommodate cables attaching perpendicular to each other to form a grid pattern. Cable sizes greater than 1/8" utilize the 10HTP08 series posts which have an additional support base for stability. The posts offer a through-mounting system for attachment to a surface.

GREEN THESE PRODUCTS THOSE PRODUCTS CONTAIN AT LEAST 65% RECYCLED CONTENT, HELPING YOU QUALIFY FOR LEED® CREDITS.

Trellis Posts



TRELLIS POS	TRELLIS POSTS 316SS							
WIRE DIA.	PART NO.	"E" LENGTH	"D" BODY DIA.	"B" BASE DIA.	THROUGH HOLES	"H" HOLE DIA.	MOUNT SCREW HOLE SIZE	
1/8"	10HTP08961	3.000"	.750"	1.000"	1	.266"	.375"	
1/8"	10HTP08962	4.000"	.750"	1.000"	1	.266"	.375"	
1/8"	10HTP081281	3.000"	.750"	1.000"	2	.266"	.375"	
1/8"	10HTP081282	4.000"	.750"	1.000"	2	.266"	.375"	
3/16"-1/4"	10HTP121281	4.000"	1.000"	1.250"	1	.391"	.375"	
3/16"-1/4"	10HTP121282	4.000"	1.000"	1.250"	2	.391"	.375"	

Trellis Post Wide Support Base





SOCKET HEAD CAP S

Mounting Screw — Socket Head Cap Screw



SOCKET HEAD CAP SCREW 316SS				
PART NO.	"B" THREAD	"E" LENGTH		
11HCS122	3/8-16	2.000"		
11HCS123	3/8-16	3.000"		

TRELLIS POST WIDE SUPPPORT BASE

For use with 10	316SS		
PART NO.	"T" THICKNESS	"B" BASE DIA.	MOUNT SCREW HOLE SIZE
10HTPB08	.250"	1.750"	.375"

Wood Mounting Screw – Flat Head Philips Screw

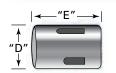


WOOD MOUNTING SCREW – FLAT HEAD PHILIPS SCREW 316SS				
PART NO.	THREAD SIZE	LENGTH		
11HFS8128	1/4"	4.000"		

Cross Clamps

Cross clamps are used in conjunction with trellis posts as a "stiffener" at the cable crossing points where no post exists and to attach horizontal and vertical interior cables to perimeter cables.



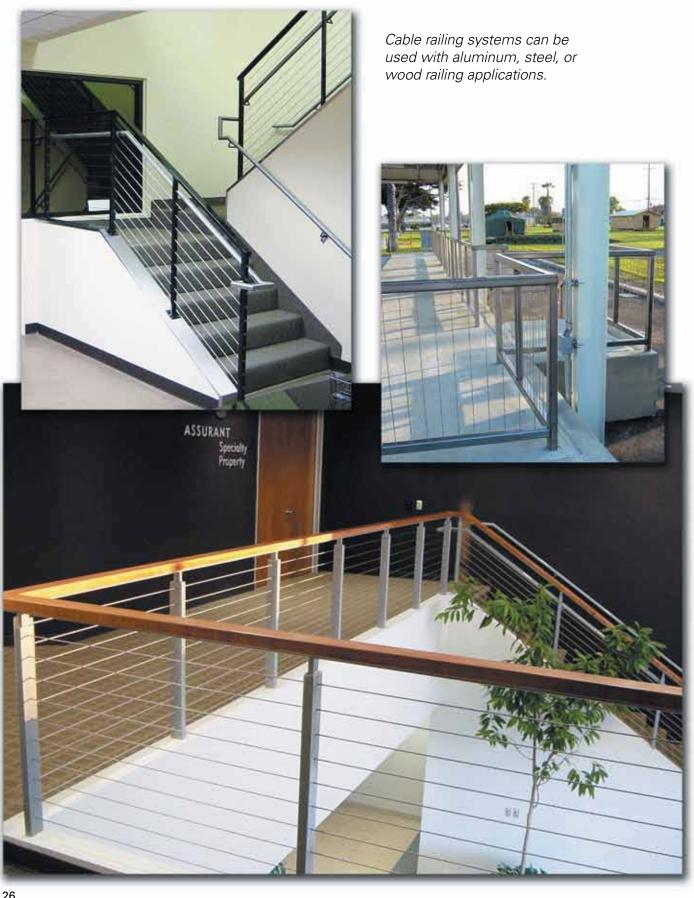


CROSS	CL	AΜ	PS

CROSS C	LAMPS		316SS
CABLE DIA.	PART NO.	"E" LENGTH	"D" BODY DIA.
1/8"	10HTCC04	1.188"	.750"
5/32"	10HTCC05	1.203"	.750"
3/16"	10HTCC06	1.250"	.750"
1/4"	10HTCC08	1.375"	.750"











railing systems provide safety without interfering with the view.





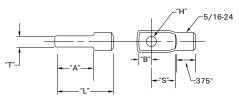
Mounting Accessories





Threaded Tab

The threaded tab screws into a drilled and tapped hole on the inside wall of the end post for mounting an Adjust-A-Jaw® or Adjust-A-Body® tensioner, CAI Fixed Jaw, Toggle Jaw system, or Push-Lock™ fitting with threaded eye. You save the expense of welding tees or tabs onto your end post. Recommended only when you are using a minimum schedule 80 pipe end post or a square or rectangular steel end post with a minimum .250" wall.

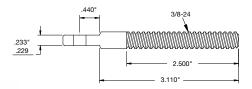


THREADED TAB							
CABLE DIA.	PART NO.	"H"	"S"	"T"	"A"	"B"	"L"
1/8"	20HTT4	.265"	.500"	.233"/.229"	.813"	.313"	1.250"
3/16"	20HTT4	.265"	.500"	.233"/.229"	.813"	.313"	1.250"
1/4"	20HTT8	.390"	.625"	.295"/.285"	1.250"	.375"	1.625"
5/16"	20HTT8	.390"	.625"	.295"/.285"	1.250"	.375"	1.625"
3/8"	20HTT8	.390"	.625"	.295"/.285"	1.250"	.375"	1.625"

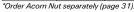


Extended Length Threaded Tab

Extended length, same as above except there is no need to thread the hole in your end post. Cut to desired length and secure to end post with acorn nut and thread sealant.



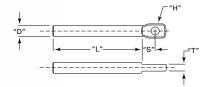
EXTENDED LENGTH THREADED TAB 316SS							
CABLE DIA.	PART NO.	USE WITH SS ACORN NUT*					
1/8" & 3/16"	20HXTT4	11HCN12R					





Welded into an end post to make a strong tab for use in mounting an Adjust-A-Jaw® or Adjust-A-Body® tensioner, CAI Fixed Jaw, Toggle Jaw system, or Push-Lock™ fitting with threaded eye. The fixed tab is cut to length if necessary, inserted in a hole drilled through the post and welded to the outside wall. The welded surface is then ground to the original contour of the post, thus hiding the weld.





FIXED TAB						30488
CABLE DIA.	PART NO.	″H″	"S"	"T"	"D"	"L"
1/8"	20HFT4*	.265"	.44"	.233"/.229"	.375"	3.11"
3/16"	20HFT4*	.265"	.44"	.233"/.229"	.375"	3.11"
1/4"	20HFT8*	.390"	.68"	.295"/.285"	.562"	3.00"

*Specify "A" for Carbon Steel or "B" for Type 304 Stainless Steel



Welded Receiver

A fixed end, non-tensioning device, the welded receiver provides a sturdy, threaded receptacle in the end post for an Invisiware® swaging stud (see page 11). The welded receiver is cut to length if necessary, inserted in a hole drilled through the post and welded to the outside wall. The welded surface is then ground to the original contour of the post, thus hiding the weld.





WELDED RECEIVER					STEEL 304SS		
CABL		PART NO.	USE WITH STUD NO.	"D"	"T"	"L"	
1/8		20FWR4*	20FS4	.437"	5/16-24	2.82"	
3/16	; "	20FWR4*	20FS6	.437"	5/16-24	2.82"	
1/4	1	20FWR8*	20FS8	.531"	7/16-20	2.82"	

*Specify "A" for Carbon Steel or "B" for Type 304 Stainless Steel.



Lag Eye

20HLE4L

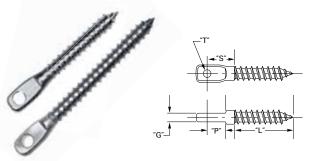
.233"/.229"

.253"

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



Post with a CAI Fixed Jaw attached.



LAG EYE								304SS
CABLE DIA.	PART NO.	"G"	"T"	"S"	"L"	"P"	DRILL SIZE REQUIRED	MIN. NOMINAL TIMBER SIZE
1/8"	20HLE4	.233"/.229"	.253"	.625"	1.50"	.500"	17/64"	
3/16"	20HLE4	.233"/.229"	.253"	.625"	1.50"	.500"	17/64"	4 x 4
1/4"	20HLE8	.255"/.265"	.385"	1.188"	2.00"	.688"	3/8"	
EXTENDED LENGTH LAG EYE WITH 3" THREAD								

.625"

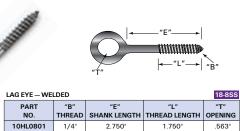
3.00"

.500"

17/64"

4 x 4

Lag Eye - Welded



2.750

1.750

.625"

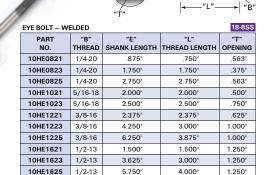
.750"

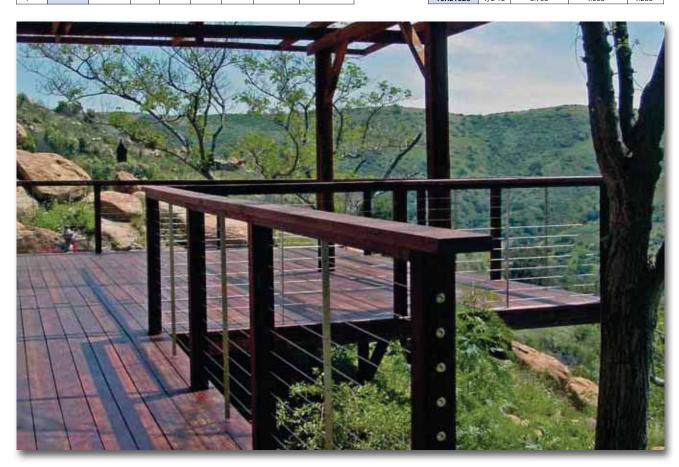
10HL1201 Eye Bolt - Welded

10HL1001

5/16"

3/8"







Ball End Fittings

Ball End Fittings are available in both 1/4-28 and 5/16-24 thread configurations. Both options are designed to be used in conjunction with the Threaded Termination Studs and Threaded Termination Turnbuckle Systems.



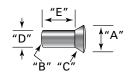
BALL END F	316SS	
PART NO.	THREAD SIZE	OUTSIDE DIA.
10HBE8	1/4-28 RH	.625"
10HBE10	5/16-24 RH	.625"

CHROME PLATED NAVEL BRONZE					
15HBE8	1/4-28 RH	.625"			
15HBE10	5/16-24 RH	.625"			

Countersunk Cap

Countersunk Cap Fitting is designed to be used in conjunction with the Threaded Termination Studs and Threaded Termination Turnbuckle Systems when the design requires the end fittings to be flush to the outside of the end posts.





COUNTERSUNK CAP 316S							
PART NO.	"B" THREAD	"E" LENGTH	"D" BODY DIA.	"C" ANGLE	"A" HEAD DIA.		
10HCTST8	1/4-28 RH	.563"	.359"	82°	.563"		

Dome Nuts

Dome Nuts are available in both 1/4-28 and 5/16-24 thread configurations. Both options are designed to be used in conjunction with the Threaded Termination Studs and Threaded Termination Turnbuckle Systems.

SOLID DOME NUT



DOME NUT			316SS
PART NO.	THREAD	OUTSIDE DIA.	THICKNESS
10HDN8	1/4-28 RH	.563"	.250"
10HDN10	5/16-24 RH	.750"	.281"

			30455
15HDN8	1/4-28 RH	.563"	.250"
15HDN10	5/16-24 RH	.563"	.250"



			0.000
PART NO.	THREAD	OUTSIDE DIA.	THICKNESS
10HDN8S	1/4-28 RH	.563"	.355"
10HDN10S	5/16-24 RH	.750"	.438"

21655

			30488
15HDN8S	1/4-28 RH	.563"	.313"
15HDN10S	5/16-24 RH	.563"	.313"
15HDN10SL	5/16-24 RH	.625"	.438"

Adjust-a-Ball Fittings

The Adjust-A-Ball End Fittings are designed for most angle compensation applications when using Threaded Stud or Terminations Stud Systems. An 11/16" diameter hole in the end verticals/posts acts as a mounting socket. Flat bar applications, utilize an 11/16" outside diameter chamfer.



.375"

.375

.750'

.688"

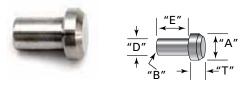
688"

Termination Stud Cap

RAISED

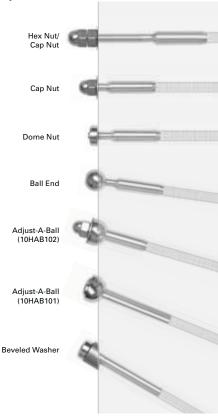
COUNTERSUNK 10HAB101

10HAB102



TERMINATION STUD CAP								
PART NO.	"B" THREAD	"E" LENGTH	"D" BODY DIA.	"T" CAP THICKNESS	"A" HEAD DIA.			
10HTST8	1/4-28 RH	.563"	.359"	.219	.563"			

End Fitting Options





Beveled Washers

Beveled Washers are designed for use with many of our end fitting options without post modifications.

The designed angles are 30° through 37° — compliant with most conventional stair systems.





A	-	1	À
	-	1	ľ
-	1	4	
1		3	

			304SS
20HAW1432	.438"	.625"	32°
20HAW1435	.438"	.625"	35°
20HAW1437	.438"	.625"	37°
20HAW1832	.531"	.750"	32°
20HAW1835	.531"	.750"	35°
20HAW1837	.531"	.750"	37°

Hex Nuts



HEX NUT	18-8SS		HEX NUT	18-8S	
PART NO.	THREAD		PART NO.	THREAD	
11HN6L	10-32 LH		11HN16L	1/2-20 LH	
11HN6R	10-32 RH		11HN16R	1/2-20 RH	
11HNC8L	1/4-20 LH		11HN20L	5/8-18 LH	
11HNC8R	1/4-20 RH		11HN20R	5/8-18 RH	
11HN8L	1/4-28 LH		11HN24L	3/4-16 LH	
11HN8R	1/4-28 RH		11HN24R	3/4-16 RH	
11HN10L	5/16-24 LH		11HN28L	7/8-14 LH	
11HN10R	5/16-24 RH		11HN28R	7/8-14 RH	
11HN12L	3/8-24 LH		11HN32L	1.0-12 LH	
11HN12R	3/8-24 RH		11HN32R	1.0-12 RH	

Security Pin





Stainless Washers

Stainless Steel Washers offered in flat, locking and fender configurations.



FLAT WASHER		18-8SS		
PART NO.	NOMINAL SIZE	OUTSIDE DIA.		
11HW6	.199"	.442"		
11HW8	.287"	.623"		
11HW10	.342"	.749"		
11HW12	.415"	.870"		
11HW14	.484"	.916"		
11HW16	.541"	1.063"		



FENDER WASH	FENDER WASHER			
PART NO.	NOMINAL SIZE	OUTSIDE DIA.		
11HFW8	.287"	1.00"		
11HFW10	.342"	1.50"		
11HFW12	.415"	1.50"		
11HFW16	.541"	2.00"		



LOCK WASHE	18-8SS
PART NO.	NOMINAL SIZE
11HLW8	.287"
11HLW10	.342"
11HLW12	.415"
11HLW16	.541"

Hex Lock Nuts — Nylon Insert



LOCK NUT	18-8SS		
PART NO.	THREAD		
11HLN8R	1/4-28 RH		
11HLNC8R	1/4-20 RH		
11HLN10R	5/16-24 RH		
11HLNC10R	5/16-18 RH		

LOCK NUT	18-859		
PART NO.	THREAD		
11HLN12R	3/8-24 RH		
11HLNC12R	3/8-16 RH		
11HLN16R	1/2-20 RH		

Stainless Cap (Acorn) Nuts



CAP (ACORN)	NUT 18-8SS			
PART NO.	THREAD			
11HCN6R	10-32 RH			
11HCNC8R	1/4-20 RH			
11HCN8R	1/4-28 RH			

CAP (ACORN)	NUI 18-855		
PART NO.	THREAD		
11HCN10R	5/16-24 RH		
11HCN12R	3/8-24 RH		
11HCN16R	1/2-20 RH		

Flush- and Surface-Mounting Ball Sockets



The Flush- and Surface-Mounting Ball Sockets, made from 316-grade stainless steel, are for use with our Ball End Fittings, allowing for a variety of uses including cable rails, decorative hangings, and floral items. Additionally, these fittings offer the ability to easily attach and detach the cable for temporary displays.





- !	FLUSH-MOUNT E	BALL MOU	INTING SOCK	ET					316SS
	PART NO.	BALL DIA.	THICKNESS	POST HOLE DIA.	CAP THICKNESS	CAP DIA.	PIVOT ANGLE	SLOT Y/N	SLOT WIDTH
	10FBCM4	.625"	.281"	.750"	.188"	.875"	40°	NO	-
	10FBCM4C	.625"	.281"	.750"	.188"	.875"	40°	YES	.250"



SURFACE-MOUNT BALL MOUNTING SOCKET						316SS	
	PART NO.	BALL DIA.	OUTSIDE DIA.	LENGTH	DEPTH	MOUNT SCREW HOLE SIZE	PIVOT ANGLE
	10FBCFM4	.625"	.875"	1.000"	.813"	1/4"	40°
	10FBCMF4C	.625"	.875"	1.000"	.813"	6MM X 1.25	40°



Stainless Steel Hardware

Clevis Pin



CLEVIS PIN 18-8S				
SIZE DIA.	GRIP LENGTH			
3/16"	.406"			
1/4"	.500"			
5/16"	.563"			
3/8"	.688"			
	DIA. 3/16" 1/4" 5/16"			

Circular Ring



CIRCULAR RIN	316SS	
PART NO.	RING SIZE	PIN SIZE
10HCR14	.438"	3/16"
10HCR20	.625"	3/16"-5/16"
10HCR24	.750"	3/16"-5/16"
10HCR28	.875"	5/16" - 7/8"

Cotter Pin



COTTER PIN		304SS
PART NO.	SIZE DIA.	GRIP LENGTH
10HCRP0216	1/16"	.500"
10HCRP0248	1/16"	1.500"
10HCRP0324	3/32"	.750"
10HCRP0340	3/32"	1.250"
10HCRP0432	1/8"	1.000"
10HCRP0480	1/8"	2.500"
10HCRP0496	1/8"	3.000"
10HCRP0540	5/32"	1.250"
10HCRP0648	5/32"	1.500"

Button Head Allen Screw



BUTTON HEAD ALLEN SCREW 18-8SS				
PART NO.	THREAD	LENGTH		
11HBS8	1/4-28	.500"		
11HBS10	5/16-24	.500"		
11HBS12	3/8-24	.750"		



PAN HEAD PHILIPS SCREW 18-8SS				
PART NO.	THREAD	LENGTH		
11HPSC08	1/4-20	.750"		
11HPSC10	5/16-18	1.000"		
11HPSC12	3/8-16	1.250"		

Lag Bolt



AG BOLT	18-8SS	
PART NO.	SIZE	LENGTH
11HLB832	1/4"	1.000"
11HLB848	1/4"	1.500"
11HLB880	1/4"	2.500"
11HLB896	1/4"	3.000"
11HLB1048	5/16"	1.500"
11HLB1080	5/16"	2.500"

LAG BOLT		18-8SS	
PART NO.	SIZE	LENGTH	
11HLB1248	3/8"	1.500"	
11HLB1264	3/8"	2.000"	
11HLB1280	3/8"	2.500"	
11HLB12196	3/8"	3.000"	
11HLB12112	3/8"	3.500"	
11HLB12128	3/8"	4.000"	
11HLB12160	3/8"	5.000"	
11HLB12192	3/8"	6.000"	

Wedge Bolt



	WEDGE BOLT - CONCRETE, M.	410SS	
	PART NO.	SIZE	LENGTH
	11HWB856	1/4"	1.750"
	11HWB1280	3/8"	2.500"
	11HWB1296	3/8"	3.000"

Wedge Anchor



PART NO.	THREAD	THREAD LENGTH	OVERALL LENGTH
11HWA8104	1/4-20	2.250"	3.250"
11HWA12112	3/8-16	2.375"	3.500"
11HWA12160	3/8-16	3.125"	5.000"

Drop-in Anchor



DROP-IN ANCHOR — 316SS		
PART NO.	THREAD	
11HDAS8	1/4-20	
11HDAS12	3/8-16	
11HDAS16	1/2-13	

304SS

	STEEL
PART NO.	THREAD
11HDAC8	1/4-20
11HDAC12	3/8-16
11HDAC16	1/2-13

Pan Head Philips Screw



PAN HEAD PHI	18-8SS	
PART NO.	THREAD	LENGTH
11HPSC08	1/4-20	.750"
11HPSC10	5/16-18	1.000"
11HPSC12	3/8-16	1.250"



STEEL THREAD 11TDA8 1/4-20 11TDA12 3/8-16 1/2-13



Hex Cap, Chamfer

Designed to put the final touch anywhere 3/8" hardware has been used for mounting. These

easy-to-install, aesthetic caps cover the head of 3/8" lags or the unattractive concrete wedge anchor.



HEX CAP, CHAM		316SS	
PART NO.	SIZE	OUTSIDE DIA.	INSIDE DEPTH
50HLC12	3/8"	.750"	.250"
50HBC12	3/8"	.750"	.350"



Flat Head Philips Screw



FLAT HEAD PH	18-8SS	
PART NO.	SIZE	LENGTH
11HFS624	#10	.750"
11HFS732	#12	1.000"
11HFS824	1/4"	.750"
11HFS832	1/4"	1.000"
11HFS848	1/4"	1.500"
11HFS856	1/4"	1.750"
11HFS864	1/4"	2.000"
11HFS896	1/4"	3.000"
11HFS8128	1/4"	4.000"



Stainless Steel Spacers

Used between two structural steel posts or flat bars for a "double end post" type construction. .970" length.



STAINLESS STEEL SPACERS			304SS
PART NO.	OUTSIDE DIA.	WALL THICKNESS	USE WITH RECEIVERS & WELDED RECEIVERS:
20HSPC4	5/8"	.083"	1/8" and 3/16" dia. cable
20HSPC8	3/4"	.095"	1/4" dia. cable



Cable

Sizes offered. Seven sizes of cable are offered for the CAI Cable Railing System: 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", and 1/2".

Cable construction. For most applications, we recommend 1x19 construction, type 316 stainless steel cable. 1x19 construction cable is engineered to hold static loads without stretching, and it is relatively stiff. Other cable constructions can be used, such as 7x7 or 7x19, but they are rarely recommended because of their elevated levels of stretch and lower breaking strengths in comparison to 1x19 construction (see chart).

Swaging — attaching fittings to cable.

Our swageless fittings do not require swaging, since the hardware is attached to the cable by hand. Other CAI hardware is swaged using hydraulic presses that apply up to 55 tons of pressure to swage the fittings. CAI portable swagers are available for purchase or rent, or in many cases the factory can supply cable with fittings attached.

Cable coating. Cable can be special ordered with a PVC coating in any standard (PMS) color. If PVC coated cable is to be used with metal framed railings, special caution should be used because hole specifications for frame

GREEN
THESE PRODUCTS
CONTAIN AT LEAST
65% RECYCLED
CONTENT, HELPING
YOU QUALIFY FOR
LEED®
CREDITS.

components can change and, in some cases, special hardware may be required. If you are interested in using coated cable, please contact the factory for any necessary special hardware or design specifications.

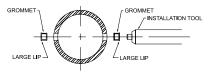
CABLE			316SS		
MINIMUM BREAKING STRENGTHS (in Lbs.) FOR TYPE 316 STAINLESS STEEL CABLE					
CABLE DIA.	1x19	7x7	7x19		
1/8"	1,780	1,360	1,300		
5/32"	2,800	1,860	2,000		
3/16"	4,000	3,300	2,900		
1/4"	6,900	5,500	4,900		
5/16"	10,600	7,600	7,600		
3/8"	14,800	11,700	11,000		
1/2"	27,000	n/a	20,200		
	stiff	flexible	very flexible		

Many cable sizes are available in Type 304 Stainless Steel and Galvanized Steel.



Cable Grommets

Cable grommets are offered for popular cable diameters of 1/8", 3/16" and 1/4". They help prevent rust in exterior applications, or elsewhere where moisture is a factor, by providing a barrier between the cable and the painted



or powder-coated surface through which the cable is drawn when being installed. Cable grommets are installed (after the paint or powder coating is applied) into holes in intermediate posts, cable braces and, in the case of the Invisiware® radius ferrule, Push-LockTM, and Pull-LockTM fittings into the end post holes through which the cable exits. They are offered in black UV-resistant Delrin®.

Delrin is a registered trademark of E.I. DuPont de Nemours & Co.



INTERMEDIATE POST MATERIAL (Not slotted for stairway)			Order cable grommets by diameter of cable and post through which the cable END POST MATERIAL USING RADIUS FERRULE, PUSH-LOCK OR PULL-LOCK FITTINGS INTERMEDIATE POST MATERIAL SI FOR STAIRWAY PITCH UP TO 3		TERIAL SLOTTED			
CABLE DIA.	Schedule 40 1-1/4" 1-1/2" 2" PIPE	SQUARE or RECT. TUBE WITH .120" WALL	1/4" CABLE BRACE or SQUARE or RECT. TUBE WITH .250" WALL	Schedule 80 1-1/4"* 1-1/2" 2" PIPE	SQUARE or RECT. TUBE WITH .250" WALL	Schedule 40 1-1/4" 1-1/2" 2" PIPE	SQUARE or RECT. TUBE WITH .120" WALL	1/4" CABLE BRACE or SQUARE or RECT. TUBE WITH .250" WALL
1/8" & 3/16"	20HG41	20HG42	20HG44	20HG43	20HG44	20HGS41	20HGS42	20HGS44
1/4"	20HG81	20HG82	20HG84	20HG83	20HG84	20HGS81	20HGS82	20HGS84

Cable grommets not required with Prush-Lock of rulin-Lock httings used in 1-17 Sciencius of upper in pile is counterported.

Cable Grommets are available in lots of 50 each. Custom grommets available — contact us for details. For Grommet Installation Tools, see page 37



Railing Components

Drill Guide

Use the drill guide to drill your pilot holes. Clamp the guide to post and drill. Subsequent drills will follow pilot holes. When ordering, allow space for clamps. A 6" overall-length drill is included.



Contact us for **DRILL GUIDE ORDER FORM** or visit our website.

Cable Brace

1/4" x 1" cable braces are used to support the cables between end or intermediate posts to keep the cable from flexing excessively when a load is applied. Cable braces

rail and to the lower mounting surface (a bottom rail or the deck). Available in mill finish carbon steel or #4 finish stainless steel. Also available for stairs. STEEL 304SS





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.

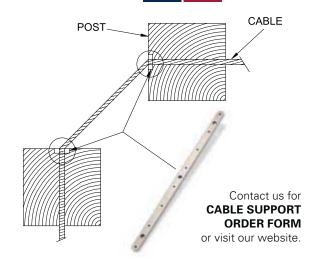




POST PROTE	304SS			
PART NO.	NOMINAL SIZE	"D" BODY DIA.	"E" LENGTH	"F" FLANGE
11HCST8	.206"	.250"	1.600"	.344"
11HCST8S	.206"	.250"	.875"	.500"
11HCST10	.273"	.313"	1.600"	.421"
11HCST12	.335"	.375"	1.600"	.500"

Cable Support

1/4" x 1" flat bar cable supports are used to prevent the cable from biting into the wood post where the cable enters or exits a wooden post at an angle, when the cables are tensioned. Available in mill finish carbon steel or #4 finish stainless steel.



Corner Section Tubes

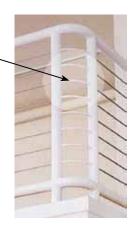
Available in carbon or stainless steel. **STEEL 304SS**

Order **CORNER SECTION TUBE** and specify carbon or stainless, cable diameter being used and tube radius:

3.90" radius

4.00" radius

6.19" radius



Cable Brace Floor Plates

For mounting cable braces to top or bottom rail, stair, or deck.



CABLE BRACE FLOOR PLATES		STEEL 304SS
PART NO.	MATERIAL	DIMENSIONS
50HCBP0101	Mill Finish Carbon Steel	
50HCBP0201	Mill Finish Stainless Steel	
50HCBP0301	#4 Finish Stainless Steel	2-1/4" x 1-1/4" x 1/4"
50HCBP0111	Mill Finish C.S. (Stair Slope)	
50HCBP0211	Mill Finish S.S. (Stair Slope)	
50HCBP0311	#4 Finish S.S. (Stair Slope)	





Tools and Maintenance

Cable Cutter

For burr-free cutting of cable.

Order 82T07

for light-duty use to cut 1/8" cable

Order **82T13**

to cut cable 1/4" dia. and under

Order **82T20**

to cut cable up to 3/8" dia.



Locking pliers with machined jaws to grip cable, without damage, and prevent the cable from turning while tensioning.

Order 20TCG4

for 1/8", 3/16", 1/4" and 3/8" cable

Order 50TCG1 for 1/8" and 3/16" cable



Cable Tension Gauges

Check the tension on your cables with these easy-to-use gauges.

Order 11TCTG04

for cable diameter of 1/8", 3/16" and 1/4"

Order 11TCTG08

for cable diameter of 1/4" through 3/8"

Hanger Bolt Driver

Use to install Adjust-A-Body® with Hanger Bolt tensioners. Makes driving hanger bolts fast and easy.

Order 20TLB4N

for 1/8" and 3/16" dia. cable



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 11TCUTKIT

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Pre-Tensioner

A Pre-tensioner can be used when installing longer runs of cable. It allows you to tension the cable through the last intermediate post, making it easy to connect to the

last (end) post. When renting installation tools, Pre-tensioners must be requested.

Order 20TPT250



Pre-Tensioner Locking Pliers

Special Pre-tensioner Locking Pliers are used with the pre-tensioner. Each cable diameter requires individual pliers which must be ordered separately.

Order **20TCG-PT4** for 1/8" cable, Order **20TCG-PT6** for 3/16" cable Order **20TCG-PT8** for 1/4" cable

Stainless Steel Cleaner and Protectant

Dissolves minor corrosion, then leaves 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 83MT94RF8 Larger sizes available.



Handy Crimp Tool

Handy crimp tool featuring 4 cavities for use with up to 5/32" oval sleeves and 1/8' - 3/16" lines of Handy Crimp cable hardware. Other size single cavity and multi-cavity tools available as special order.

This tool is required for hardware marked with CRIMP





Cable Art Incorporated Cables can be provided pre-swaged with fittings attached ready to install, or you can cut the cables and swage the fittings in your shop or on the job site. Tools and equipment for cutting the cables and swaging the fittings can be rented or purchased from the factory.

Air Over Hydraulic Pump

Air driven. Powers Model 610 or 650 Swager. Requires an air compressor capable of delivering at least 5.4 c.f.m. at 90 p.s.i. and a minimum 15-gallon tank. Minimum 1/4" I.D. air hose with a 1/4" male pipe thread required (not included).



Order 20THYDPUMP

Electric Hydraulic 120V Pump

Increases swaging speed versus the Air Over Hydraulic Pump.

Order 20TELECPUMP



Radius Ferrule / Clip-on Stop Gauge

Use this gauge to confirm that the radius ferrules and

clip-on stops have been properly swaged. The fitting is properly swaged if it fits into the appropriate slot.

Order 20TRFG

Grommet Installation Tool Set

Needed to properly install grommets. Place grommet on tool, align grommet over hole, and tap lightly with a hammer.

Order 20TGTS4 Can be purchased separately.

Model 610 Swager

Hand held. For swaging 1/8" and 3/16" diameter cable fittings.
Use with Air Over or Electric Hydraulic Pump.

Order 20T610HEAD



Shipping Container/ Tool Box

With compartments for cable cutting and installation tools.

Order 20T610BOX



Model 650 Swager

For swaging 1/8" through 3/8" diameter cable fittings. Use with Air Over or Electric Hydraulic Pump.

Order 20T650HEAD



Shipping Container/ Tool Box

With compartments for cable cutting and installation tools.

Order 20T650BOX



Cable Release

Releases cable from
Push-LockTM and Pull-LockTM
type fittings before cables are
tensioned.

Order 20TPL4











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