

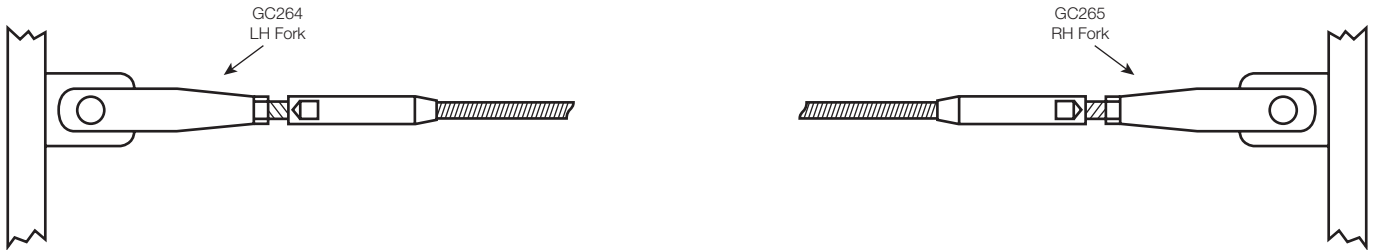


○ Architectural & Structural Systems

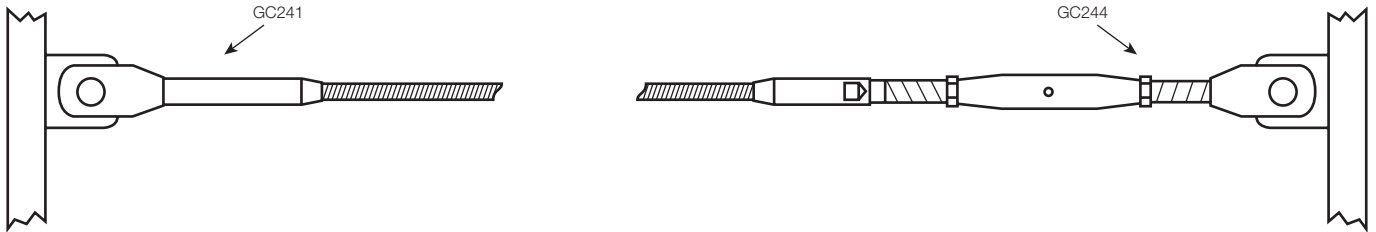
Architectural & structural cables are available in a number of variations, listed below are our most popular.

Should these not meet your requirements, please ring us and we will advise the best option to suit.

System 1: Left and right hand adjustable forks for connection to welded lugs



System 2: Swaged fork and tensioner for connection to welded lugs



System 3: Swage stud with metric thread both ends



System 4: Swaged toggled fork and toggled tensioner for connection to welded lugs

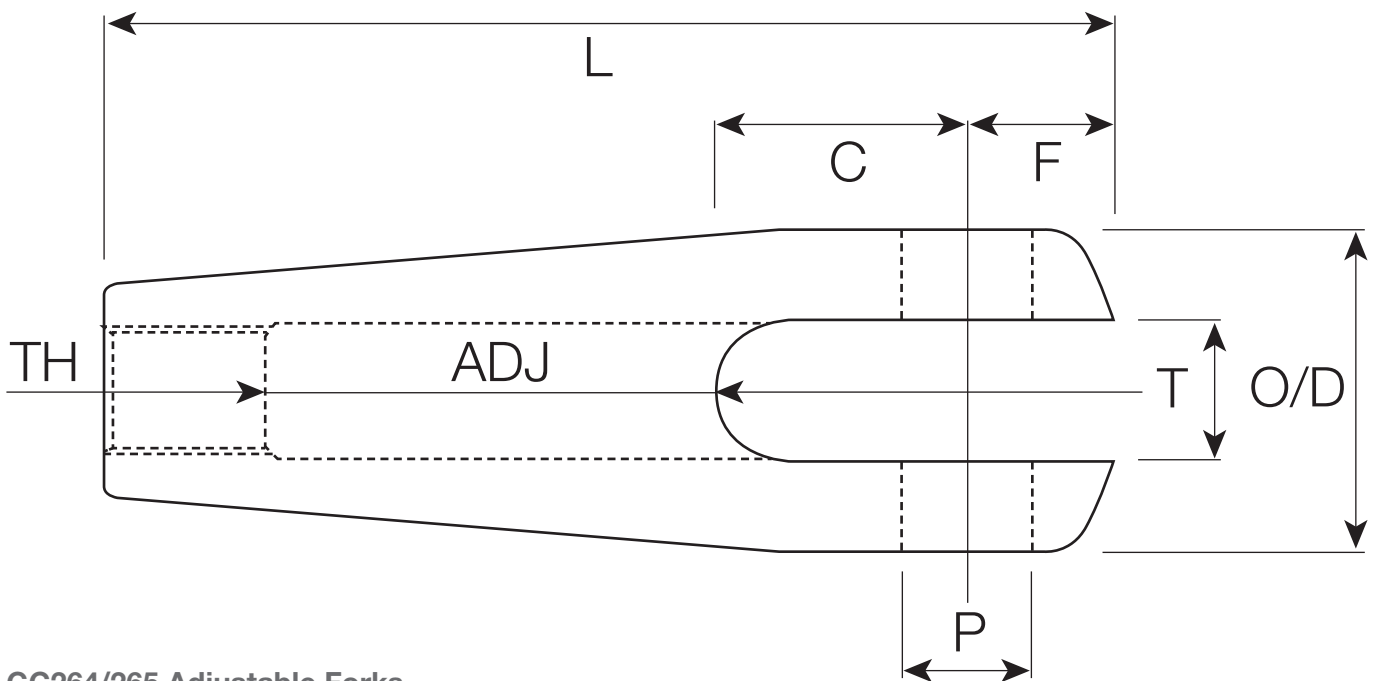


Architectural & Structural System 1

System 1: Left and right hand adjustable forks for connection to welded lugs



System 1 consists of a left and a right hand fork. The cable is tensioned by simultaneous rotation of the two studs once the forks have been attached to the welded lugs. Locking nuts are supplied as standard. This system has a symmetrical appearance.



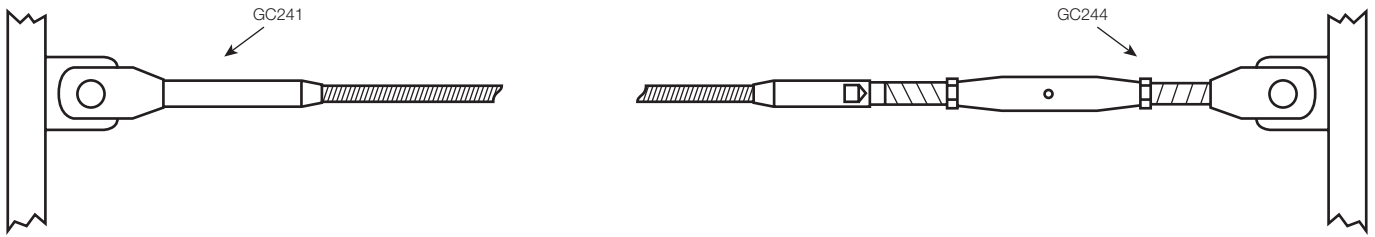
GC264/265 Adjustable Forks
(GC264 right hand thread, GC265 left hand thread)

Wire size		3	4	5	6	7	8	10	12	14	16	19	22	26
Yield Load (design load)	kN	4.9	7.7	11.7	15.8	21.3	21.3	34	49.6	67.8	88.2	113	142	174
Break Load	kN	12.1	19.3	29.1	39.4	53	53	84.8	123	168	219	283	354	434
Length	L	129	156	189	214	252	265	315	377	434	496	566	634	725
Adjustment +/-		12	16	20	22	24	24	32	36	40	45	50	55	60
Jaw gap	T	7	8.5	10	11	13	13	16	19	22	25	28.4	32	35
Clevis pin diameter	P	6.4	8	9.5	11	13	13	16	19	22.2	25	28.4	32	35
Projection	F	8	10	12	15	18	18	20	24	26	32	35	38	44
Jaw depth	C	15	16	20	23	30	30	32	40	45	52	60	64	70
Outer diameter	OD	6.3	7.5	9.1	12.5	14.3	16	18	21.4	25	28.2	34.5	40.3	45.9
Thread (UNF)		1/4"	5/16"	3/8"	7/16"	1/2"	1/2"	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"	1 3/8"
Weight (g)		90	160	190	400	680	680	1,050	2,000	2,750	3,000	7,210	8,840	10,150

all dimensions in mm

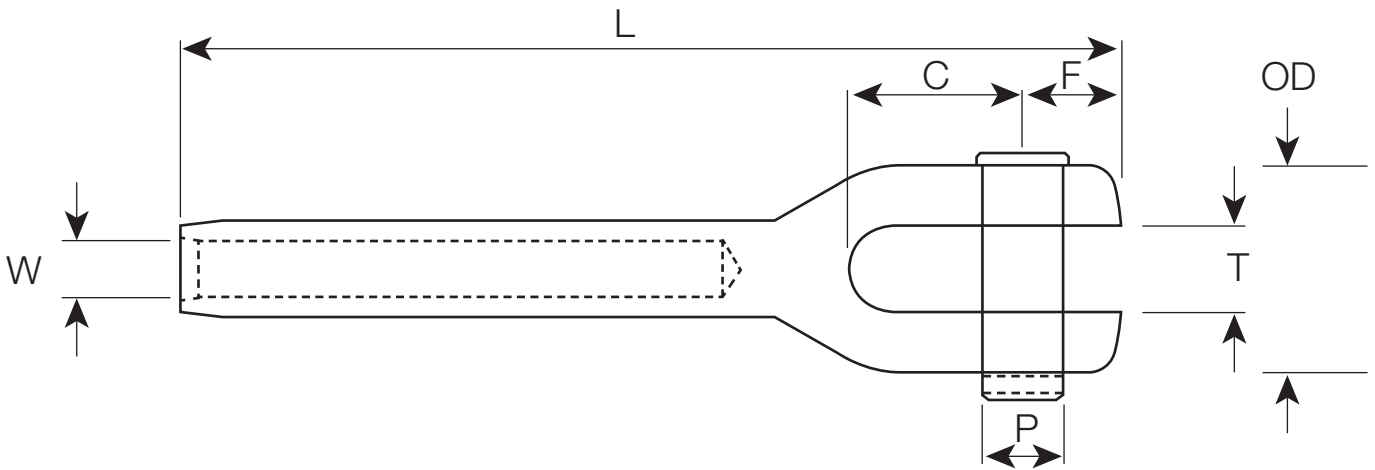
Architectural & Structural System 2

System 2: Swaged fork and tensioner for connection to welded lugs



System 2 consists of a fixed fork and a tensioner. Unlike some other systems where the two terminals have to be rotated simultaneously, this cable is tensioned by turning the body of the tensioner with the wire remaining stationary.

For longer tendons, a tensioner should be used at both ends to ensure sufficient adjustment.

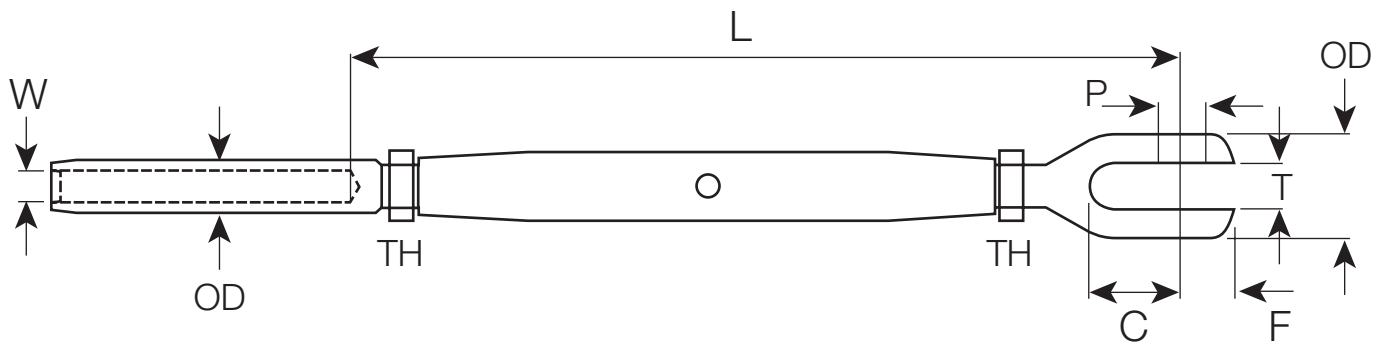


GC241 Forks

Wire size		3	4	5	6	7	8	10	12	14	16	19	22	26
Yield Load (design load)	kN	4.9	7.7	11.7	15.8	21.3	21.3	34	49.6	67.8	88.2	113	142	174
Break Load	kN	12.1	19.3	29.1	39.4	53	53	84.8	123	168	219	283	354	434
Fork length	L	70	83	97	113	128	144	174	221	258	294	341	390	450
Jaw gap	T	6.3	8	10	11	12.7	12.7	16	19	22.2	25.4	28.6	32	35
Clevis pin diameter	P	6	8	9.5	11	12	12	16	19	22	25.4	28	32	35
Projection	F	7	9	11	12	15	15	18	23	26	30.6	33	39	43.5
Jaw depth	C	13	16	19	22	25	25	32	38	45	50	58	64	70
Outer diameter	OD	6.3	7.5	9.1	12.5	14.3	16	18	21.4	25	28.2	34.5	40.3	45.9
Weight (g)		20	36	64	142	172	196	376	1,097	1,105	1,683	2,580	3,611	5,019

all dimensions in mm

GC244 line drawing and mechanical properties overleaf...



GC244 Swaged Stud & Fork Tensioner

Wire size		3	4	5	6	7	8	10	12	14	16	19	22	26
Yield Load (design load)	kN	4.9	7.7	11.7	15.8	21.3	21.3	34	49.6	67.8	88.2	113	142	174
Break Load	kN	12.1	19.3	29.1	39.4	53	53	84.8	123	168	219	283	354	434
Length	L	160	187	235	255	300	305	392	445	500	595	665	725	815
Adjustment +/-		35	37	50	55	65	65	77	85	98	120	135	150	160
Jaw gap	T	6.3	8	10	11	12.7	12.7	16	19	22.2	25.4	28.6	32	35
Clevis pin diameter	P	6	8	9.5	11	12	12	16	19	22	25.4	28	32	35
Projection	F	7	9	11	12	15	15	18	22	26	29	32	38	42
Jaw depth	C	13	16	19	22	25	25	32	38	45	50	58	64	70
Outer diameter	OD	6.3	7.5	9.1	12.5	14.3	16	18	21.4	25	28.2	34.5	40.3	45.9
Thread (UNF)	TH	1/4"	5/16"	3/8"	7/16"	1/2"	1/2"	5/8"	3/4"	7/9"	1"	1 1/8"	1 1/4"	1 3/8"
Weight (g)		79	151	257	386	591	625	1,340	2,218	3,376	4,925	5,318	7,711	14,085

all dimensions in mm

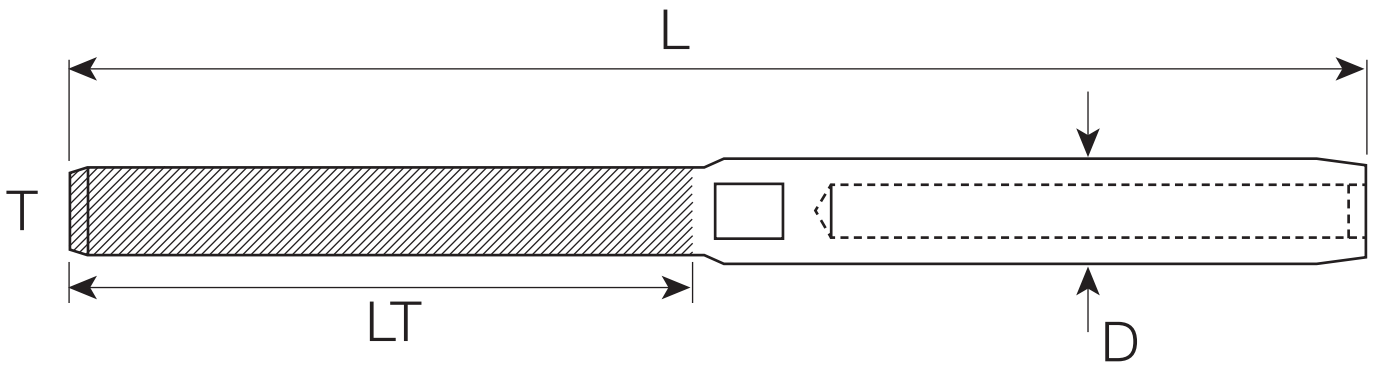
Architectural & Structural System 3

System 3: Swage stud with metric thread both ends (UNF can be supplied if required).



These stainless steel cables are terminated by a stainless steel swaged stud with a metric thread at either end. 2 options are available:

1. A right hand metric thread at either end which is passed through an end connection. The cable is tensioned using either a lock nut or dome nut on the outside face.
2. A right hand metric thread at one end and a left hand metric thread at the other end. The cable is tensioned by simultaneous rotation at both ends into suitable anchorages (e.g. drilled and tapped holes). We would recommend lock nuts are used to secure the assembly.



GC220/221 Swaged Stud with metric thread
(GC220 are right hand threads, GC221 are left hand threads)

Wire size		3	4	5	6	7	8	10	12	14	16	19	22	26
Yield Load (design load)	kN	4.9	7.7	11.7	15.8	21.3	21.3	34	49.6	67.8	88.2	113	142	174
Break Load	kN	12.1	19.3	29.1	39.4	53	53	84.8	123	168	219	283	354	434
Overall length	L	97	113	122	154	177	190	223	277	325	371	425	482	557
Thread length	LT	47	54	68	75	90	90	100	120	140	160	180	200	220
Thread	T	M6	M8	M8	M10	M12	M12	M16	M20	M22	M27	M30	M36	M42
Outer diameter	D	6.3	7.5	9.1	12.5	14.3	16	18	21.4	25	28.2	34.5	40.3	45.9
Weight (g)		24	36	54	108	162	196	306	550	874	1,275	2,050	3,200	4,000

all dimensions in mm

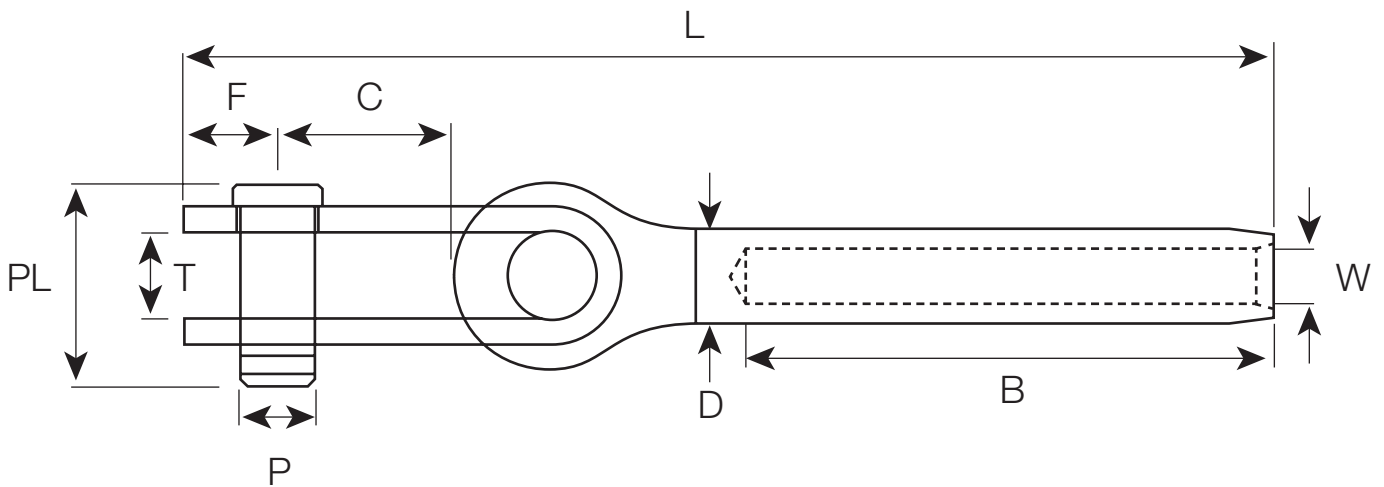
Architectural & Structural System 4

System 4: Swaged toggled fork and toggled tensioner for connection to welded lugs



System 4 consists of a toggled fork and a toggled tensioner. The cable is tensioned by turning the body of the tensioner with the wire remaining stationary. The toggled forks allow greater articulation, reducing the need for complex connecting brackets and fixings.

For longer tendons, a tensioner should be used at both ends to ensure sufficient adjustment.

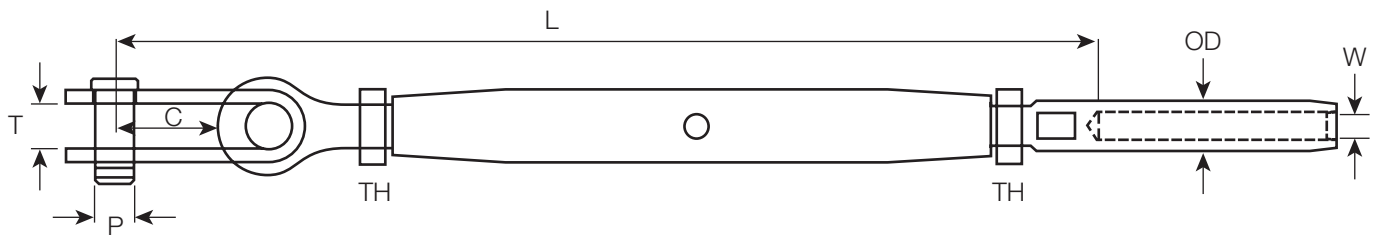


GC341 Swaged Toggled fork

Wire size		3	4	5	6	7	8	10	12	14	16	19	22	26
Yield Load (design load)	kN	4.9	7.7	11.7	15.8	21.3	21.3	34	49.6	67.8	88.2	113	142	174
Break Load	kN	12.1	19.3	29.1	39.4	53	53	84.8	123	168	219	283	354	434
Length	L	84	103	111	146	168	169	212	278	328	364	430	496	571
Jaw gap	T	7.7	9	10.3	14	14.2	14.2	17.5	22	24	28	32	36	38
Clevis pin diameter	P	6	8	9.5	11	12	12	16	19	22	25.4	28	32	35
Projection	F	8	12	13	17	19	19	25	25	30	30	38	50	50
Jaw depth	C	16	16.5	20.4	28	30.3	30.3	39.4	55	60	70	80	85	105
Weight (g)		25	45	89	230	271	295	569	1409	1912	2516	4147	6039	8428

all dimensions in mm

GC344 line drawing and mechanical properties overleaf...



GC344 Swaged Stud & Toggle Tensioner

Wire size		3	4	5	6	7	8	10	12	14	16	19	22	26
Yield Load (design load)	kN	4.9	7.7	11.7	15.8	21.3	21.3	34	49.6	67.8	88.2	113	142	174
Break Load	kN	12.1	19.3	29.1	39.4	53	53	84.8	123	168	219	283	354	434
Length	L	180	205	253	280	330	335	425	500	560	660	745	785	925
Adjustment +/-		35	37	50	55	66	66	78	85	98	120	135	120	160
Jaw gap	T	7.7	9	10.3	14	14.2	14.2	17.5	22	24	28	32	36	38
Clevis pin diameter	P	6	8	9.5	11	12	12	16	19	22	25.4	28	32	35
Projection	F	8	12	13	17	19	19	25	25	30	30	38	50	50
Jaw depth	C	16	16.5	20.4	28	30.3	30.3	39.4	55	60	70	80	85	105
Outer diameter	OD	6.3	7.5	9.1	12.5	14.3	16	18	21.4	25	28.2	34.5	40.3	45.9
Thread	TH	1/4"	5/16"	3/8"	7/16"	1/2"	1/2"	5/8"	3/4"	7/9"	1"	1 1/8"	1 1/4"	1 3/8"
Weight (g)		76	140	250	430	626	660	1389	2278	3803	5162	6098	9039	16058

all dimensions in mm

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