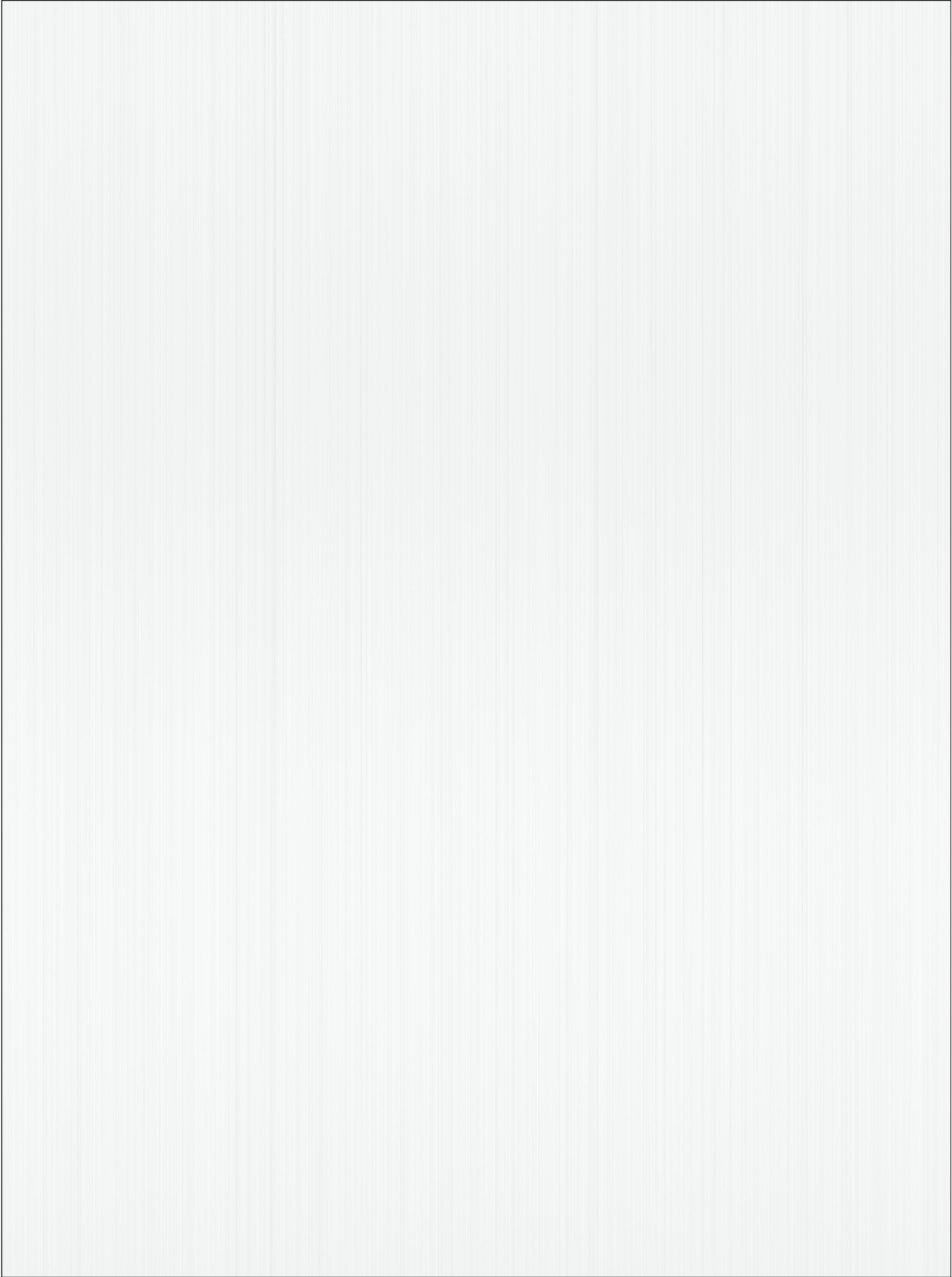


Clodfelter Bridge and Structures International **CATALOG**

2 0 2 3







Engineering components *first...To last*



Whether you're building bridges to carry pedestrians, passenger cars or pipelines; roof structures, guyed towers, flare stacks or tram systems; the integrity of even the largest cable-supported structure relies on uncompromising engineering down to the smallest detail. It's a high stakes endeavor, so you need partners you can trust to ensure success.

CBSI carries the load, with a complete range of components for cable-supported structures manufactured to exacting tolerances, and backed by decades of proven engineering expertise.

When failure is not an option, call on the crew that's structured for total engineering support.

Build more quality into your next project with the highest quality components and unparalleled expertise of the team that's structured for engineering support.



Team CBSI: **Structured For Engineering Support**

Every specialist on the CBSI team shares a common goal—support every client with the most trustworthy engineering expertise and the highest quality components in the cable-supported structure industry.

This team is led by Jerry Clodfelter, a nationally recognized leader in cable-supported structure technology. Jerry combines more than 30 years of hands-on experience in every aspect of design and construction with the latest state-of-the-art engineering to deliver cost-effective solutions for any application:

- Pipeline bridges
- Cable-supported roof structures
- Pedestrian bridges
- Guyed towers
- Flare stacks
- Highway/railroad bridges, tied arch
- Bridge maintenance
- Cable-supported tram systems

Components You Can Depend On

The standard bridge strands, ropes, structural sockets, castings and forgings we stock in our warehouses are subjected to the same rigorous engineering evaluations and manufacturing quality control we apply to those we design for extreme duty in uniquely specialized applications. SolidWorks 3D modeling allows us to optimize designs to maximize strength while minimizing waste. We don't accept weak links, so don't have to make excuses for them later.

All-American Cast

CBSI castings utilize the latest pattern line technology to insure every casting meets the highest standards for structural integrity. Standard castings are made to ASTM A148 GR 105/85 Steel, but we can also pour Stainless Steel CF8 and special exotics such as Titanium. Whatever the material, you can count on 100% Made-in-the-USA quality.

Forging a Stronger Future

All CBSI rod, socket and bolt products are forged to strict ASTM and ISO certification specifications by some of the top forging companies in the country. CBSI is also proud that all components are made of high quality, 100% U.S. Forged Steel.

Engineering You Can Trust

In addition to components designed to exceed the most demanding specifications, CBSI can also provide project-engineering support in a variety of other areas:

- Design and manufacture of components for specialized applications
- Quality control consulting
- Project feasibility, engineering and design studies
- Development of design specifications
- Specialized project management
- Project design and specification review
- Bridge inspections, NDT and field maintenance
- Construction, tensioning and cable installation

Successful Partnerships

CBSI consistently meets the most difficult civil engineering and construction challenges to satisfy the demanding requirements of local, state and federal agencies, as well as an expanding commercial and international clientele.

- HNTB HDR
- American Bridge/Mustang Engineering
- CH2M Hill
- Arcadis US
- Arup
- Hatch Mott McDonald
- Bechtel
- T.Y. Lin International
- Parsons
- Willbros Group
- URS Corp.
- Huitt-Zollars
- Parsons Brinkerhoff
- Bill Harbert Int.
- Black & Veatch
- Genesis Structures
- Clear Span Engineering



The Definitive Engineering Resource
For Cable-Supported Structure Components





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ASTM A603

GALVANIZED STRUCTURAL BRIDGE ROPE

ASTM A603 Galvanized Bridge Rope (Construction 7×7 or 6×25)

Use where high strength and relative flexibility is required in a stationary structure/application.

- Main cables
- Wind or suspender cables
- Towers–boom guys
- Support cables for suspended roofs



Minimum Breaking Strength in Tons of 2000 lbs.

Nominal Diameter (in.)	Class A Coating Throughout	Class B Coating Throughout	Class C Coating Throughout	Approx. Gross Metallic Area (in.)	Approx Weight (ft. lb.)
3/8	6.5	6.2	5.9	0.065	0.24
7/16	8.8	8.4	8.0	0.091	0.32
1/2	11.5	11.0	10.5	0.119	0.42
9/16	14.5	13.8	13.2	0.147	0.53
5/8	18.0	17.2	16.4	0.182	0.65
11/16	21.5	20.5	19.5	0.221	0.79
3/4	26.0	24.8	23.6	0.268	0.95
13/16	30.0	28.6	27.3	0.311	1.10
7/8	35.0	33.4	31.8	0.361	1.28
15/16	40.0	38.2	36.4	0.414	1.47
1	45.7	43.6	41.5	0.471	1.67
1-1/8	57.8	55.1	52.5	0.596	2.11
1-1/4	72.2	68.9	65.6	0.745	2.64
1-3/8	87.8	83.8	79.8	0.906	3.21
1-1/2	104.0	99.2	94.5	1.076	3.82
1-5/8	123.0	117.0	112.0	1.270	4.51
1-3/4	143.0	136.0	130.0	1.470	5.24
1-7/8	164.0	156.0	149.0	1.690	6.03
2	186.0	177.0	169.0	1.920	6.85
2-1/8	210.0	200.0	191.0	2.170	7.73
2-1/4	235.0	224.0	214.0	2.420	8.66
2-3/8	261.0	249.0	237.0	2.690	9.61
2-1/2	288.0	275.0	262.0	2.970	10.60
2-5/8	317.0	302.0	288.0	3.270	11.62
2-3/4	347.0	331.0	315.0	3.580	12.74
2-7/8	379.0	362.0	344.0	3.910	13.90
3	412.0	393.0	374.0	4.250	15.11
3-1/4	475.0	453.0	432.0	5.040	18.00
3-1/2	555.0	529.0	504.0	5.830	21.00
3-3/4	640.0	611.0	582.0	6.670	24.00
4	730.0	696.0	664.0	7.590	27.00

ASTM A586 GALVANIZED STRUCTURAL STRAND

Minimum Breaking Strength in Tons of 2000 lbs.

Nominal Diameter (in.)	Grade 1			Grade 2	Approx. Gross Metallic Area (sq. in.)	Approx. Wt. (lb. ft.)
	Class A Coating Throughout	Class A Coating Inner Wires/ Class B Coating Outer Wires	Class A Coating Inner Wires/ Class C Coating Outer Wires	Class A Coating Throughout		
1/2	15.0	14.5	14.2	17.3	0.15	0.52
9/16	19.0	18.4	18.0	21.9	0.19	.066
5/8	24.0	23.3	22.8	27.6	0.234	0.82
11/16	29.0	28.1	27.5	33.4	0.284	0.99
3/4	34.0	33.0	32.3	39.1	0.338	1.18
13/16	40.0	38.8	38.0	46.0	0.396	1.39
7/8	46.0	44.6	43.7	52.9	0.459	1.61
15/16	54.0	52.4	51.3	62.1	0.527	1.85
1	61.0	59.2	57.9	70.2	0.600	2.10
1-1/16	69.0	66.9	65.5	79.4	0.677	2.37
1-1/8	78.0	75.7	71.4	89.7	0.759	2.66
1-3/16	86.0	83.4	81.7	98.9	0.846	2.96
1-1/4	96.0	94.1	92.2	110.0	0.938	3.28
1-5/16	106.0	104.0	102.0	122.0	1.03	3.62
1-3/8	116.0	114.0	111.0	133.0	1.13	3.97
1-7/16	126.0	123.0	121.0	145.0	1.24	4.34
1-1/2	138.0	135.0	132.0	159.0	1.35	4.73
1-9/16	150.0	147.0	144.0	173.0	1.47	5.13
1-5/8	162.0	159.0	155.0	186.0	1.59	5.55
1-11/16	176.0	172.0	169.0	202.0	1.71	5.98
1-3/4	188.0	184.0	180.0	216.0	1.84	6.43
1-13/16	202.0	198.0	194.0	232.0	1.97	6.90
1-7/8	216.0	212.0	207.0	248.0	2.11	7.39
1-15/16	230.0	226.0	221.0	266.0	2.25	7.89
2	245.0	241.0	238.0	282.0	2.40	8.40
2-1/16	261.0	257.0	253.0	300.0	2.55	8.94
2-1/8	277.0	273.0	269.0	319.0	2.71	9.49
2-3/16	293.0	289.0	284.0	337.0	2.87	10.05
2-1/4	310.0	305.0	301.0	357.0	3.04	10.64
2-5/16	327.0	322.0	317.0	376.0	3.21	11.24
2-3/8	344.0	339.0	334.0	396.0	3.38	11.85
2-7/16	360.0	355.0	349.0	414.0	3.57	12.48
2-1/2	376.0	370.0	365.0	432.0	3.75	13.13
2-9/16	392.0	386.0	380.0	451.0	3.94	13.80
2-5/8	417.0	411.0	404.0	480.0	4.13	14.47
2-11/16	432.0	425.0	419.0	497.0	4.33	15.16
2-3/4	452.0	445.0	438.0	520.0	4.54	15.88
2-7/8	494.0	486.0	479.0	568.0	4.96	17.36
3	538.0	530.0	522.0	619.0	5.40	18.90
3-1/8	584.0	575.0	566.0	672.0	5.86	20.51
3-1/4	625.0	616.0	606.0	719.0	6.34	22.18
3-3/8	673.0	663.0	653.0	774.0	6.83	23.92
3-1/2	724.0	714.0	702.0	838.0	7.35	25.73
3-5/8	768.0	757.0	745.0	883.0	7.88	27.60
3-3/4	822.0	810.0	797.0	945.0	8.43	29.53
3-7/8	878.0	865.0	852.0	1010.0	9.00	31.53
4	925.0	911.0	897.0	1064.0	9.60	33.60

ASTM A586 Galvanized Structural Strand (Construction 1 × 19 etc.)

Use where high strength and high modulus is required in a stationary structure/application.

- Main cables
- Wind or suspender cables
- Tower-boom guys
- Roof structures, etc.



2400 SERIES

OPEN STRAND SOCKETS



Material Specification

- Sockets up to 4" are ASTM A148 steel, grade 105-85
- Sockets above 4" are ASTM A148 steel grade 115-95
- All sockets are magnetic particle inspected at critical areas and proof tested on special order.

Tolerances

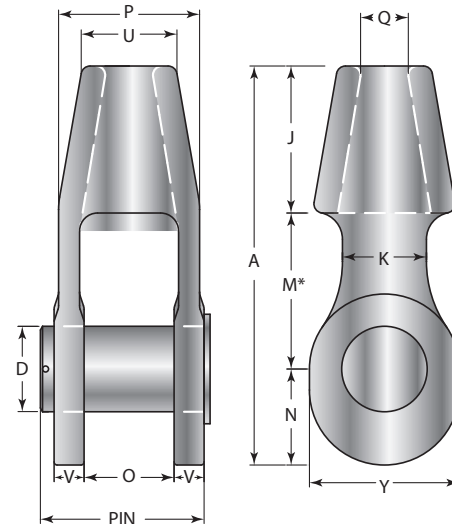
- Dimensions under 4": $\pm 1/16"$
- Dimensions over 4": $\pm 1/8"$
- V and O dimensions: $\pm 1/8"$
- Q (smaller sizes): $\pm 1/32"$
- D: $+0 - 1/32"$

Note

Dimensions and tolerances shown are prior to galvanize.

Cast Sockets are available for use in extreme temperatures; these must be special ordered.

* "M" dimensions do not include basket radius restrictions.



Part #	Strand Diameter (in.)	Dimensions (in.)											Pin Length (in.)	Pin D (in.)	Cotter Pin Size (in.)	Weight Each (lbs.)
		A	J	K	M	N	O	P	Q	U	V	Y				
2401	1/2	6-5/8	2-7/8	1-1/4	2-1/2	1-1/4	1-1/4	2-1/2	3/4	1-1/2	5/8	2	3-1/16	1-3/16	1/4	4.5
2402	9/16 – 5/8	7-3/4	3-9/16	1-1/2	2-3/4	1-7/16	1-1/2	3	13/16	1-7/8	3/4	2-1/2	3-5/8	1-3/8	1/4	6.7
2403	11/16 – 3/4	9	4-1/4	1-3/4	3	1-11/16	1-3/4	3-3/8	15/16	2	13/16	2-3/4	4	1-5/8	1/4	10.2
2404	13/16 – 7/8	10-3/8	4-7/8	2	3-1/2	2	2	3-3/4	1-1/16	2-1/8	7/8	3-1/4	4-3/8	2	1/4	14.3
2405	15/16 – 1	12	5-5/8	2-1/4	4	2-3/8	2-3/8	4	1-1/4	2-3/8	7/8	3-3/4	4-3/4	2-1/4	3/8	19
2406	1-1/16 – 1-1/8	12-1/2	5-1/4	2-1/2	4-1/2	2-3/4	2-1/2	4-1/4	1-1/2	2-1/2	15/16	4-1/4	5-1/4	2-1/2	3/8	25
2407	1-3/16 – 1-1/4	13-5/8	5-1/2	2-3/4	5	3-1/8	3	4-3/4	1-5/8	2-3/4	1	4-3/4	5-7/8	2-3/4	3/8	32
2408	1-5/16 – 1-3/8	14-5/8	5-1/2	3-1/4	5-1/2	3-1/2	3-1/4	4-3/4	1-7/8	3	1-1/8	5-5/8	6	3	1/2	40
2409	1-7/16 – 1-5/8	16-5/8	6-1/8	3-1/2	6-1/2	4	3-3/4	5-7/8	2	4	1-1/4	6-1/4	7	3-1/2	1/2	71
2410	1-11/16 – 1-3/4	17-1/4	6	3-5/8	7	4	4-1/8	6-5/8	2-1/4	4	1-1/2	6-1/4	8-3/8	3-3/4	1/2	92
2411	1-13/16 – 1-7/8	19-1/4	6-3/4	3-3/4	7-3/4	4-1/2	4-1/4	7	2-3/8	4-1/2	1-5/8	7-1/8	8-5/8	4	1/2	111
2412	1-15/16 – 2	21-3/8	7	3-7/8	9-1/2	4-3/4	4-5/8	7-3/8	2-1/2	4-3/4	1-1/2	7-1/2	8-7/8	4-1/4	1/2	138
2413	2-1/16 – 2-1/8	22-1/2	7-3/4	3-7/8	10	4-3/4	4-1/2	7-1/2	2-1/2	4-3/4	2	7-1/2	9-5/8	4-1/2	1/2	161
2414	2-3/16 – 2-1/4	24-1/8	7-7/8	4	11	5-1/4	5	8-1/2	2-5/8	5-1/2	2	8	10-1/4	4-3/4	5/8	196
2415	2-5/16 – 2-3/8	24-3/4	8-1/8	4-1/2	11	5-1/2	5-1/4	8-5/8	3	6	2-1/8	8-1/2	10-3/4	5	5/8	231
2416	2-7/16 – 2-9/16	26-1/4	8-1/2	5	12	5-3/4	5-1/2	9-3/8	3	6-1/2	2-1/4	9	11-1/4	5-1/4	5/8	261
2417	2-5/8 – 2-3/4	27-5/8	9	5-1/4	12-1/4	6-3/8	6	10-1/8	3-1/4	6-1/2	2-1/2	10	12-1/4	5-3/4	5/8	320
2418	2-7/8 – 3	29-3/4	10	5-5/8	13	6-3/4	6-1/2	11	3-3/8	7	2-1/2	10-1/2	12-1/2	6	5/8	392
2419	3-1/8 – 3-1/4	31-1/2	10-1/2	6-1/8	13-1/4	7-3/4	6-3/4	11-3/4	3-3/4	7-1/2	2-3/4	11-1/4	13-1/2	6-1/2	5/8	433
2420	3-3/8 – 3-1/2	32-3/4	10-3/4	6-3/8	13-3/4	8-1/4	7-1/4	12-3/4	4	8	3	11-3/4	14-5/8	6-3/4	5/8	582
2421	3-5/8 – 3-3/4	33-1/2	11	6-3/4	14	8-1/2	7-3/4	13-1/2	4-1/4	8-1/2	3-3/8	12-1/4	15-1/2	7	5/8	677
2422	3-7/8 – 4	34-1/2	11-1/4	7	14-1/4	9	8	14-1/4	4-1/2	8-3/4	3-1/2	12-3/4	16-3/8	7-1/4	3/4	755
2423	4-1/8 – 4-3/8	35	11-3/4	7-1/2	14-3/4	8-1/2	8-1/4	13-3/4	5-1/4	9-1/2	2-3/4	12-3/4	15-1/8	7-1/4	3/4	660
2424	4-1/2 – 4-3/4	37	12-1/2	8	15-1/2	9	8-1/2	14-1/2	5-3/4	10-1/2	3	13-1/2	15-7/8	7-1/2	3/4	778
2425	4-7/8 – 5-1/8	40-1/4	13-3/4	9	16-1/2	10	8-3/4	14-3/4	6-1/4	12	3	14-3/4	16-1/8	8	3/4	947
2426	5-1/4 – 5-1/2	43-1/2	15	10	17-1/4	11-1/4	9	15	6-1/2	13	3	16-1/2	16-3/8	8-1/2	3/4	1130



2500 SERIES

CLOSED STRAND SOCKETS

Material Specification

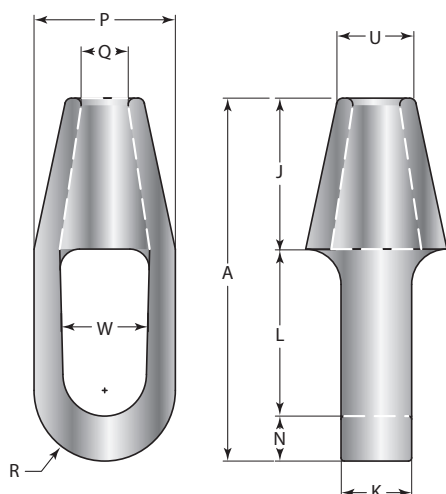
- Sockets up to 4" are ASTM A148 steel, grade 105-85
- Sockets above 4" are ASTM A148 steel grade 115-95
- All sockets are magnetic particle inspected at critical areas and proof tested on special order.

Tolerances

- Dimensions under 4": $\pm 1/16"$
- Dimensions over 4": $\pm 1/8"$
- Q (smaller sizes): $\pm 1/32"$

Note

Dimensions and tolerances shown are prior to galvanize.



Part #	Strand Diameter (in.)	Dimensions (in.)										Weight Each (lbs.)
		A	J	K	L	N	P	Q	R	U	W	
2501	1/2	6	2-7/8	1	2-1/2	5/8	2-1/2	3/4	1-1/4	1-1/2	1-3/8	2.2
2502	9/16 - 5/8	7-5/16	3-9/16	1-1/4	3	3/4	3	13/16	1-1/2	1-7/8	1-3/4	4.0
2503	11/16 - 3/4	8-5/8	4-1/4	1-9/16	3-1/2	7/8	3-3/8	15/16	1-11/16	2	2-1/8	7.0
2504	13/16 - 7/8	10	4-7/8	1-3/4	4	1-1/8	3-3/4	1-1/16	1-7/8	2-1/8	2-1/4	9.5
2505	15/16 - 1	11	5-1/8	2	4-5/8	1-1/4	4	1-1/4	2	2-3/8	2-1/2	16.5
2506	1-1/16 - 1-1/8	12	5-1/4	2-1/4	6	1-1/2	4-3/8	1-1/2	2-3/16	2-1/2	2-3/4	19
2507	1-3/16 - 1-1/4	13	5-1/2	2-1/2	6-1/4	1-1/2	4-1/2	1-5/8	2-1/2	2-3/4	2-7/8	21
2508	1-5/16 - 1-3/8	14-1/8	6	2-3/4	6-1/2	1-3/4	4-7/8	1-3/4	2-3/4	3	3-1/8	30
2509	1-7/16 - 1-5/8	15-5/8	6-1/8	3-1/4	7-1/2	2	6	2	3-1/8	4	3-3/8	46
2510	1-11/16 - 1-3/4	16-3/4	6-1/2	3-3/4	8	2-1/4	6-3/4	2-1/8	3-1/4	4	3-3/4	56
2511	1-13/16 - 1-7/8	17-7/8	6-3/4	4	8-3/4	2-3/8	7-1/8	2-1/4	3-7/16	4-1/2	4-1/4	67
2512	1-15/16 - 2	18-7/8	7	4-1/4	9-1/2	2-3/8	7-1/2	2-3/8	3-5/8	4-3/4	4-1/2	78
2513	2-1/16 - 2-1/8	20-1/4	7-3/4	4-1/2	10	2-1/2	8	2-1/2	3-7/8	4-3/4	4-3/4	96
2514	2-3/16 - 2-1/4	21-1/8	7-7/8	4-3/4	10-1/2	2-3/4	8-1/2	2-5/8	4	5-1/2	5	114
2515	2-5/16 - 2-3/8	22-1/8	8-1/4	5	11	2-7/8	9	2-3/4	4-1/4	6	5-1/2	134
2516	2-7/16 - 2-9/16	23-1/4	8-1/2	5-1/4	11-1/2	3-1/4	9-3/8	3	4-11/16	6-1/2	5-1/2	167
2517	2-5/8 - 2-3/4	24-1/4	9	5-3/4	12	3-1/4	10-1/4	3-1/8	4-3/4	6-3/4	6	182
2518	2-7/8 - 3	26	10	6	12-1/4	3-3/4	11	3-3/8	5-5/16	7	6-1/2	242
2519	3-1/8 - 3-1/4	26-3/4	10-1/2	6-1/2	12-1/2	3-3/4	11-3/4	3-3/4	5-3/4	7-1/2	7-1/4	282
2520	3-3/8 - 3-1/2	27-3/4	10-3/4	7	13	4	12-1/2	4	6-1/8	8	8	343
2521	3-5/8 - 3-3/4	28-3/4	11	7-1/2	13-1/2	4-1/4	13-1/2	4-1/4	6-1/2	8-1/2	8-1/4	390
2522	3-7/8 - 4	29-3/4	11-1/4	7-3/4	14	4-1/2	14	4-1/2	7	8-3/4	8-1/2	465
2523	4-1/8 - 4-3/8	32-1/2	11-3/4	7-7/8	17-1/8	3-5/8	14-1/4	5-1/4	7	9-1/2	8-1/2	460
2524	4-1/2 - 4-3/4	34-5/8	12-1/2	8-1/8	17-3/4	4-3/8	14-1/2	5-3/4	7-1/4	10-1/2	8-3/4	547
2525	4-7/8 - 5-1/8	38-1/8	13-3/4	8-3/8	19-1/2	4-7/8	14-3/4	6-1/4	7-1/4	12	9-1/4	671
2526	5-1/4 - 5-1/2	41-1/2	15	8-5/8	21	5-1/2	15	6-1/2	8	13	9-3/4	910

3400 SERIES

OPEN WIRE ROPE SPELTER SOCKETS



Material Specification

- All forged sockets (1-1/2" and smaller) are AISI 1038 steel, normalized and tempered
- All cast sockets (1-5/8" and larger) are ASTM A148 steel, grade 90-60
- All sockets are magnetic particle inspected at critical areas and proof tested on special order

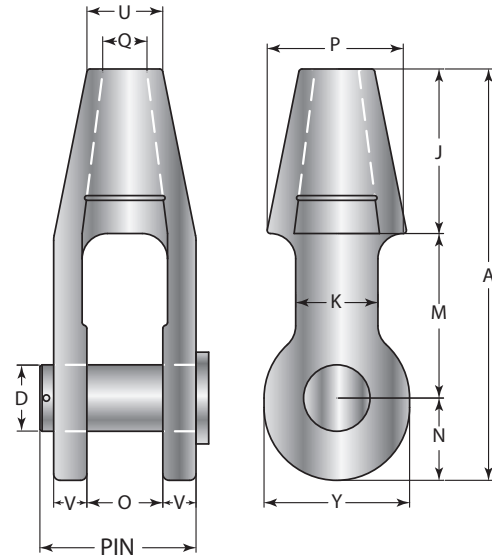
Tolerances

- Dimensions under 4": $\pm 1/8"$
 - Dimensions over 4": $\pm 1/4"$
 - D: $+0 - 1/32"$ in uncoated socket, $\pm 1/32"$ in zinc coated socket
- Dimensions and tolerances shown are prior to galvanize.

Note

This drawing illustrates one groove used on sockets 1/2" and smaller. Sizes 9/16" – 1-1/2" have two grooves; sizes 1-5/8" and larger have three grooves.

Cast Sockets are available for use in extreme temperatures; these must be special ordered.

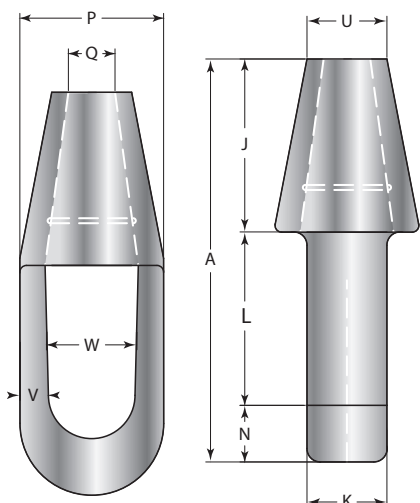


Part #	W/R Diameter (in.)	Dimensions (in.)											Pin Length (in.)	Pin D (in.)	Cotter Pin Size (in.)	Weight Each (lbs.)
		A	J	K	M	N	O	P	Q	U	V	Y				
3401	1/4	4-9/16	2-1/4	3/4	1-9/16	3/4	11/16	1-9/16	3/8	11/16	5/16	1-5/16	1-3/4	11/16	3/16	1.1
3402	5/16 – 3/8	4-7/8	2-1/4	13/16	1-3/4	7/8	13/16	1-11/16	1/2	13/16	7/16	1-1/2	2-1/16	13/16	3/16	1.3
3403	7/16 – 1/2	5-9/16	2-1/2	1	2	1-1/16	1	1-7/8	9/16	15/16	1/2	1-7/8	2-7/16	1	3/16	2.3
3404	9/16 – 5/8	6-3/4	3	1-1/4	2-1/2	1-1/4	1-1/4	2-1/4	11/16	1-1/8	5/8	2-1/4	2-7/8	1-3/16	1/4	3.8
3405	3/4	7-15/16	3-1/2	1-1/2	3	1-7/16	1-1/2	2-5/8	13/16	1-1/4	3/4	2-5/8	3-1/4	1-3/8	1/4	6
3406	7/8	9-1/4	4	1-3/4	3-1/2	1-3/4	1-3/4	3-1/8	15/16	1-1/2	7/8	3-1/8	3-7/8	1-5/8	5/16	10
3407	1	10-9/16	4-1/2	2	4	2-1/16	2	3-5/8	1-1/8	1-3/4	7/8	3-3/4	4-1/2	2	3/8	15.5
3408	1-1/8	11-3/16	5-1/16	2-3/8	4-1/2	2-5/16	2-1/4	4	1-1/4	2	1	4-1/8	5	2-1/4	3/8	22
3409	1-1/4 – 1-3/8	13-3/16	5-1/2	2-3/4	5	2-11/16	2-1/2	4-3/4	1-1/2	2-1/4	1-1/8	4-3/4	5-5/8	2-1/2	3/8	32
3410	1-1/2	15-1/8	6	3	6	3-1/8	3	5-1/4	1-5/8	2-3/4	1-1/4	5-3/8	6-3/8	2-3/4	1/2	46
3411	1-5/8	16-1/4	6-1/2	3-1/4	6-1/2	3-1/4	3	5-1/2	1-3/4	3	1-5/16	5-3/4	6-5/8	3	1/2	55
3412	1-3/4 – 1-7/8	18-1/4	7-1/2	3-5/8	7	3-3/4	3-1/2	6-3/8	2	3-1/8	1-9/16	6-1/2	7-5/8	3-1/2	1/2	85
3413	2 – 2-1/8	21-1/2	8-1/2	4-1/4	9	4	4	7-3/8	2-1/4	3-3/4	1-13/16	7	8-3/4	3-3/4	1/2	125
3414	2-1/4 – 2-3/8	23-1/2	9	4-3/8	10	4-1/2	4-1/2	8-1/4	2-1/2	4	2-1/4	7-3/4	10	4-1/4	1/2	165
3415	2-1/2 – 2-5/8	25-1/2	9-3/4	4-5/8	10-3/4	5	5	9-1/4	2-7/8	4-1/2	2-3/8	8-1/2	11	4-3/4	1/2	252
3416	2-3/4 – 2-7/8	27-1/4	11	4-7/8	11	5-1/4	5-1/4	10-3/4	3-1/8	4-7/8	2-7/8	9	12	5	5/8	315
3417	3 – 3-1/8	29	12	5-1/4	11-1/4	5-3/4	5-3/4	11-1/2	3-3/8	5-1/4	3	9-1/2	12-3/4	5-1/4	5/8	380
3418	3-1/4 – 3-3/8	30-7/8	13	5-3/4	11-3/4	6-1/8	6-1/4	12-1/4	3-5/8	5-3/4	3-1/8	10	13-1/2	5-1/2	3/4	435
3419	3-1/2 – 3-5/8	33-1/4	14	6-1/4	12-1/2	6-3/4	6-3/4	13	3-7/8	6-1/2	3-1/4	10-3/4	14-1/4	6	3/4	563
3420	3-3/4 – 4	36-1/4	15	7	13-1/2	7-3/4	7-1/2	14-1/2	4-3/8	7-1/4	3-1/2	12-1/2	15-1/2	7	3/4	785
3421	4-1/4 – 4-1/2	39-1/2	16	7-3/4	14-3/4	8-3/4	8-1/4	15-1/2	4-7/8	7-3/4	3-3/4	13-1/2	16-7/8	7-1/4	3/4	895
3422	4-3/4 – 5	42-1/2	17	8-1/2	16	9-1/4	9	16-1/2	5-3/8	8-1/4	4	14-1/2	18-1/8	7-1/2	3/4	960
3423	5-1/4 – 5-1/2	45	18	9-1/4	17	10	9-3/4	17	5-7/8	8-3/4	4-1/4	15-1/2	19-3/8	8	3/4	1190
3424	5-3/4 – 6	48	19	10	18	11	10-1/2	18	6-3/8	9-1/4	4-1/2	16-1/2	20-5/8	8-1/2	3/4	1345



3500 SERIES

CLOSED WIRE ROPE SPELTER SOCKETS



Material Specification

- All forged sockets (1-1/2" and smaller) are AISI 1038 steel, normalized and tempered
- All cast sockets (1-5/8" and larger) are ASTM A148 steel, grade 90-60
- All sockets are magnetic particle inspected at critical areas and proof tested on special order

Tolerances

- Dimensions under 4": $\pm 1/8"$
- Dimensions over 4": $\pm 1/4"$
- U, W, L and N are minimum dimensions

Dimensions and tolerances shown are prior to galvanize.

Note

This drawing illustrates one groove used on sockets 1/2" and smaller. Sizes 9/16" – 1-1/2" have two grooves; sizes 1-5/8" and larger have three grooves.

Cast Sockets are available for use in extreme temperatures; these must be special ordered.

Part #	W/R Diameter (in.)	Dimensions (in.)										Weight Each (lbs.)
		A	J	K	L	N	P	Q	U	V	W	
3501	1/4	4-1/2	2-1/4	1/2	1-3/4	1/2	1-9/16	3/8	11/16	5/16	13/16	0.7
3502	5/16 – 3/8	4-7/8	2-1/4	11/16	2	5/8	1-11/16	1/2	13/16	3/8	15/16	1.1
3503	7/16 – 1/2	5-7/16	2-1/2	7/8	2-1/4	11/16	1-7/8	9/16	15/16	7/16	1-1/8	1.5
3504	9/16 – 5/8	6-5/16	3	1	2-1/2	13/16	2-3/8	11/16	1-1/8	5/8	1-3/8	3.0
3505	3/4	7-9/16	3-1/2	1-1/4	3	1-1/16	2-3/4	13/16	1-1/4	11/16	1-5/8	4.5
3506	7/8	8-3/4	4	1-1/2	3-1/2	1-1/4	3-1/4	15/16	1-1/2	7/8	1-7/8	7.0
3507	1	9-7/8	4-1/2	1-3/4	4	1-3/8	3-3/4	1-1/8	1-3/4	15/16	2-1/4	11.0
3508	1-1/8	11	5	2	4-1/2	1-1/2	4-1/8	1-1/4	2	1	2-1/2	16.0
3509	1-1/4 – 1-3/8	12-1/8	5-1/2	2-1/4	5	1-5/8	4-3/4	1-1/2	2-1/4	1-1/8	2-3/4	22.0
3510	1-1/2	13-15/16	6	2-1/2	6	1-15/16	5-1/4	1-5/8	2-3/4	1-1/8	3-1/8	28.0
3511	1-5/8	15-1/8	6-1/2	2-3/4	6-1/2	2-1/8	5-1/2	1-3/4	3	1-1/4	3-1/4	36.0
3512	1-3/4 – 1-7/8	17-1/4	7-1/2	3	7-9/16	2-3/16	6-3/8	2	3-1/8	1-1/2	3-17/32	58.0
3513	2 – 2-1/8	19-1/2	8-1/2	3-1/4	8-9/16	2-7/16	7-3/8	2-1/4	3-3/4	1-5/8	3-25/32	80.0
3514	2-1/4 – 2-3/8	21-3/8	9	3-5/8	9-1/2	2-7/8	8-1/4	2-1/2	4	1-3/4	4-9/32	106.0
3515	2-1/2 – 2-5/8	23-1/2	9-3/4	4	10-5/8	3-1/8	9-1/4	2-7/8	4-1/2	2	5-1/2	140.0
3516	2-3/4 – 2-7/8	25-3/8	11	4-7/8	11-1/4	3-1/8	10-3/4	3-1/8	4-7/8	2-1/4	6-1/2	220.0
3517	3 – 3-1/8	27	12	5-1/4	11-3/4	3-1/4	11-1/2	3-3/8	5-1/4	2-1/2	6-3/4	275.0
3518	3-1/4 – 3-3/8	29-1/4	13	5-3/4	12-1/4	4	12-1/4	3-5/8	5-3/4	2-3/4	7-1/4	315.0
3519	3-1/2 – 3-5/8	31	14	6-1/4	13	4	13	3-7/8	6-1/2	3	7-3/4	400.0
3520	3-3/4 – 4	33-1/4	15	7	14	4-1/4	14-1/2	4-3/8	7-1/4	3-1/8	8-1/4	540.0
3521	4-1/4 – 4-1/2	35-1/2	16	7-3/4	15	4-1/2	15-3/8	4-7/8	7-3/4	3-1/4	9	610.0
3522	4-3/4 – 5	38-1/8	17	8-1/4	16	5-1/8	16-1/4	5-3/8	8-1/4	3-1/4	9-3/4	705.0
3523	5-1/4 – 5-1/2	40-1/2	18	8-3/4	17	5-1/2	17-1/2	5-7/8	8-3/4	3-1/2	10-1/2	830.0
3524	5-3/4 – 6	42-7/8	19	9	18	5-7/8	18-1/2	6-3/8	9-1/4	3-3/4	11-1/2	920.0

2600 CLOSED SERIES

CLOSED BRIDGE SOCKETS

Material Specification

- Sockets up to 4" are ASTM A148 steel, grade 105/85
- Sockets above 4" are ASTM A148 steel, grade 115/95
- All sockets are magnetic particle inspected at critical areas and proof tested on special order

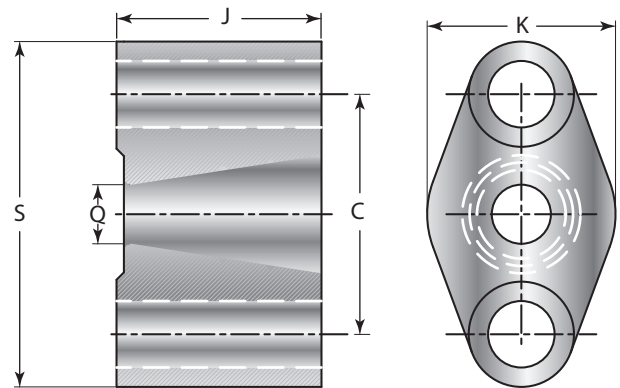
Tolerances

- Dimensions under 4": $\pm 1/8"$
- Dimensions over 4": $\pm 1/4"$
- Q (smaller sizes): $\pm 1/32"$
- D: $+0 - 1/32"$ in a self-colored socket

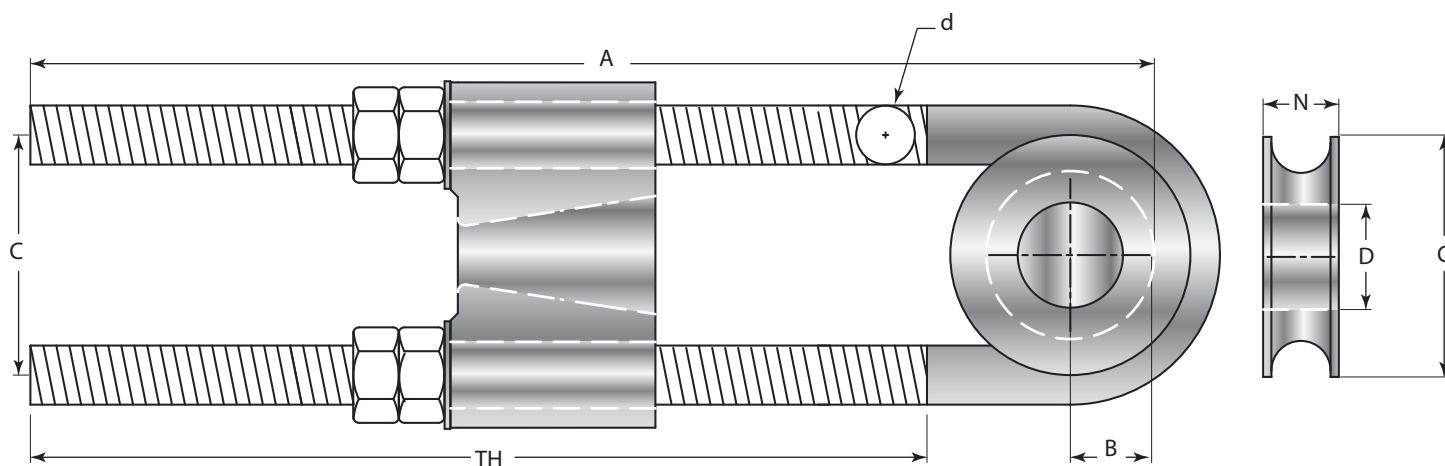
Note

Dimensions and tolerances shown are prior to galvanize.

Cast Sockets are available for use in extreme temperatures; these must be special ordered.



Part #	Rope Diameter	Strand Diameter	Std. Take-Up	A for Take-Up					B	C	d	D	J	K	N
				Std.	48"	72"	84"	96"							
2601	1/2	1/2	9	17	56	80	92	104	1-1/4	3-3/8	5/8	1-1/4	3-1/8	2-1/8	1
2602	5/8	9/16 – 5/8	9	19	58	82	94	106	1-5/8	4-3/8	3/4	1-7/16	3-1/4	2-1/2	1-1/8
2603	3/4 – 7/8	11/16 – 3/4	9	20	59	83	95	107	1-23/32	4-3/4	1	1-11/16	4-3/8	3-1/4	1-7/16
2604	1	13/16 – 7/8	9	22	61	85	97	109	1-29/32	5-3/16	1-1/8	2-1/16	5	3-3/4	1-9/16
2605	1-1/8	15/16 – 1	9	23	62	86	98	110	2-1/16	5-3/4	1-1/4	2-5/16	5-13/16	4-1/8	1-11/16
2606	1-1/4	1-1/16 – 1-1/8	12	27	63	87	99	111	2-1/8	6	1-3/8	2-9/16	6	4-11/16	1-13/16
2607	1-3/8	1-3/16 – 1-1/4	12	28	64	88	100	112	2-11/32	6-3/4	1-5/8	2-13/16	6-1/4	4-3/4	2-1/16
2608	1-1/2	1-5/16 – 1-3/8	12	30	66	90	102	114	2-1/2	7-3/16	1-3/4	3-1/16	6-7/16	5-1/4	2-3/8
2609	1-5/8 – 1-3/4	1-7/16 – 1-1/2	15	34	67	91	103	115	2-27/32	8-1/8	2	3-9/16	6-11/16	6-3/8	2-9/16
2610	1-7/8 – 2	1-9/16 – 1-3/4	15	36	69	93	105	117	3-5/32	9	2-1/4	3-13/16	7-7/8	7-1/4	2-13/16
2611	2-1/8 – 2-1/4	1-13/16 – 2	18	42	72	96	108	120	3-21/32	10-1/4	2-1/2	4-5/16	8-11/16	8-1/8	3-1/16
2612	2-3/8 – 2-1/2	2-1/16 – 2-1/4	18	45	75	99	111	123	4-5/32	11-1/2	2-3/4	4-13/16	10-1/8	8-3/4	3-5/16
2613	2-5/8 – 2-3/4	2-5/16 – 2-3/8	18	48	78	102	114	126	4-5/8	12-3/4	3	5-1/16	11-13/16	9-3/4	3-11/16
2614	2-7/8 – 3	2-7/16 – 2-5/8	21	53	80	104	116	128	4-27/32	13-3/8	3-1/4	5-13/16	12-13/16	10-5/8	3-15/16
2615	3-1/4	2-11/16 – 2-3/4	21	55	82	106	118	130	5-1/16	14-1/8	3-1/2	5-13/16	12-1/2	10-1/4	4-3/16
2616	3-1/2	2-7/8 – 3	21	58	85	109	121	133	5-17/32	15-1/4	3-3/4	6-13/16	15-1/4	11-7/8	4-1/2
2617	3-3/4	3-1/8 – 3-1/4	24	65	89	113	125	137	6-1/8	17-1/4	4	7-1/16	17-1/8	13	4-3/4
2618	(none)	3-3/8 – 3-1/2	24	69	93	117	129	141	6-29/32	18-5/16	4-1/4	7-5/16	19-1/4	13-7/8	5
2619	4	3-5/8 – 3-3/4	24	72	96	120	132	144	7-5/16	19-3/8	4-1/2	7-9/16	18-1/4	12-3/4	5-1/4
2620	4-1/4 – 4-3/8	3-7/8 – 4	24	75	99	123	135	147	7-23/32	20-7/16	4-3/4	7-13/16	20	13-7/16	5-1/2
2621	4-1/2 – 4-3/4	4-1/8 – 4-3/8	25	78	102	126	138	150	7-21/32	20	5	7-5/16	20	14	5
2622	5 – 5-1/4	4-1/2-4-3/4	27	81	105	129	141	153	7-29/32	21	5-1/4	7-9/16	21-1/4	14-7/8	5-1/2
2623	5-1/2 – 5-3/4	4-7/8 – 5-1/8	30	87	107	131	143	155	8-9/32	22	5-1/2	8-1/16	22-3/4	16	5-3/4
2624	6	5-1/4 – 5-1/2	31	91	109	133	145	157	8-17/32	23	5-3/4	8-9/16	24-1/2	17	6-1/4



TH for Take-Up								Wt. (lb) Take-Up				
Std.	48"	72"	84"	96"	Q	S		Std.	48"	72"	84"	96"
10-1/2	49-1/2	73-1/2	85-1/2	97-1/2	5/8	4-3/4	9	16	19	21	23	
10-3/4	49-3/4	73-3/4	85-3/4	97-3/4	13/16	5-7/8	16	26	29	31	35	
11-1/4	50-1/4	74-1/4	86-1/4	98-1/4	1	6-1/2	28	45	50	54	60	
11-1/2	50-1/2	74-1/2	86-1/2	98-1/2	1-1/8	7-3/8	40	62	69	75	83	
11-3/4	50-3/4	74-3/4	86-3/4	98-3/4	1-1/4	8-1/8	55	82	90	98	106	
15	51	75	87	99	1-1/2	8-5/8	68	98	109	119	129	
15-1/2	51-1/2	75-1/2	87-1/2	99-1/2	1-5/8	9-3/4	100	143	157	169	185	
15-3/4	51-3/4	75-3/4	87-3/4	99-3/4	1-5/8	10-7/16	124	173	189	207	223	
19-1/4	52-1/4	76-1/4	88-1/4	100-1/4	2	11-11/16	228	239	260	280	302	
19-3/4	52-3/4	76-3/4	88-3/4	100-3/4	2-1/4	13-1/8	249	323	350	376	404	
23-1/4	53-1/4	77-1/4	89-1/4	101-1/4	2-1/2	14-3/4	356	439	463	497	531	
23-3/4	53-3/4	77-3/4	89-3/4	101-3/4	2-3/4	16-1/2	485	586	627	647	707	
24-1/4	54-1/4	78-1/4	90-1/4	102-1/4	3	18	610	730	778	826	874	
27-3/4	54-3/4	78-3/4	90-3/4	102-3/4	3-1/4	19-1/4	776	903	960	1018	1072	
28-1/4	55-1/4	79-1/4	91-1/4	103-1/4	3-1/2	20-1/4	882	1030	1095	1161	1225	
28-3/4	55-3/4	79-3/4	91-3/4	103-3/4	3-3/4	22	1180	1349	1425	1499	1575	
32-1/4	56-1/4	80-1/4	92-1/4	104-1/4	4	24	1508	1679	1765	1851	1935	
32-3/4	56-3/4	80-3/4	92-3/4	104-3/4	4-1/8	26	1621	1821	1917	2013	2109	
33-1/4	57-1/4	81-1/4	93-1/4	105-1/4	4-1/2	27-5/8	2031	2251	2360	2468	2129	
33-3/4	57-3/4	81-3/4	93-3/4	105-3/4	4-3/4	29-7/16	2444	2684	2805	2925	3047	
36	57	82-1/2	94-1/2	106-1/2	5-1/4	28	2310	2480	3100	3234	3368	
37	58	83-1/2	95-1/2	107-1/2	5-3/4	30-1/4	2910	3130	3680	3828	3976	
40-1/2	58-1/2	84-1/2	96-1/2	108-1/2	6-1/4	31-1/2	3425	3625	4120	4762	4442	
41-1/2	59-1/2	86-1/2	98-1/2	110-1/2	6-1/2	33	4165	4400	4600	4778	4956	



2600 OPEN SERIES

OPEN BRIDGE SOCKETS

Material Specification

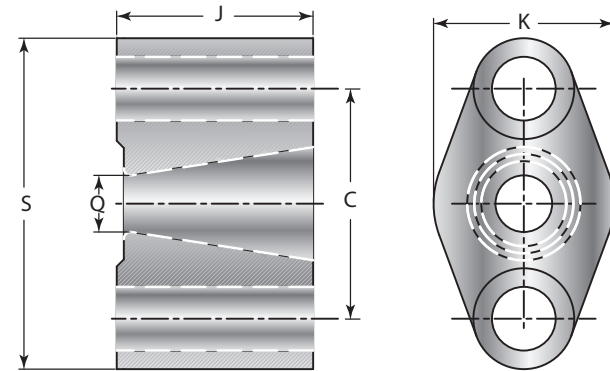
- Sockets up to 4" are ASTM A148 steel, grade 105/85
- Sockets above 4" are ASTM A148 steel, grade 115/95
- All sockets are magnetic particle inspected at critical areas and proof tested on special order

Tolerances

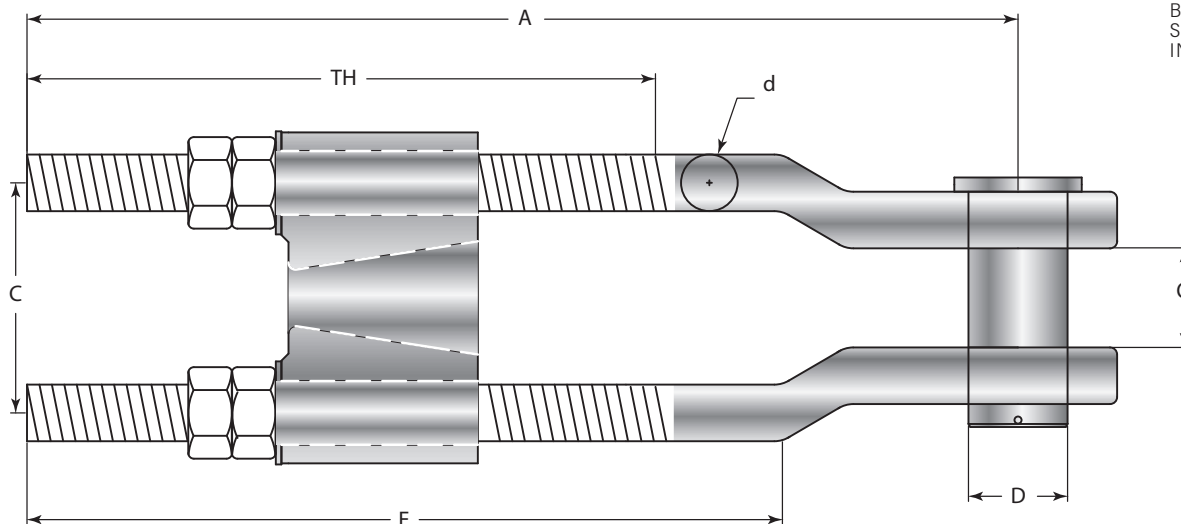
- Dimensions under 4": $\pm 1/8"$
- Dimensions over 4": $\pm 1/4"$
- Q (smaller sizes): $\pm 1/32"$
- D: $+0 - 1/32"$ in a self-colored socket

Note

Dimensions and tolerances shown are prior to galvanize.



Part #	Rope Diameter	Strand Diameter	Std. Take-Up	A for Take-Up					C	d	D	E for Take-Up				
				Std.	48"	72"	84"	96"				Std.	48"	72"	84"	96"
2601	1/2	1/2	9	20	59	83	95	107	3-3/8	5/8	1-3/16	14-1/2	53-1/2	77-1/2	89-1/2	101-1/2
2602	5/8	9/16 – 5/8	9	22	61	85	97	109	4-3/8	3/4	1-3/8	15	54	78	90	102
2603	3/4 – 7/8	11/16 – 3/4	9	23	62	86	98	110	4-3/4	1	1-5/8	16-1/2	55-1/2	79-1/2	91	103
2604	1	13/16 – 7/8	9	25	64	88	100	112	5-3/16	1-1/8	2	17	56	80	92	104
2605	1-1/8	15/16 – 1	9	26	65	89	101	113	5-3/4	1-1/4	2-1/4	18-1/2	57-1/2	81-1/2	93	105
2606	1-1/4	1-1/16 – 1-1/8	12	30	66	90	102	114	6	1-3/8	2-1/2	21-1/2	57-1/2	81-1/2	94	106
2607	1-3/8	1-3/16 – 1-1/4	12	33	69	93	105	117	6-3/4	1-5/8	2-3/4	22-1/2	58-1/2	82-1/2	95	107
2608	1-1/2	1-5/16 – 1-3/8	12	34	70	94	106	118	7-3/16	1-3/4	3	23-1/2	59-1/2	83-1/2	96	108
2609	1-5/8 – 1-3/4	1-7/16 – 1-1/2	15	39	72	96	108	120	8-1/8	2	3-1/2	27	60	84	97	109
2610	1-7/8 – 2	1-9/16 – 1-3/4	15	42	75	99	111	123	9	2-1/4	3-3/4	28-1/2	61-1/2	85-1/2	98	110
2611	2-1/8 – 2-1/4	1-13/16 – 2	18	50	80	104	116	128	10-1/4	2-1/2	4-1/4	33	63	87	99	111
2612	2-3/8 – 2-1/2	2-1/16 – 2-1/4	18	52	82	106	118	130	11-1/2	2-3/4	4-3/4	35-1/2	64-1/2	89-1/2	101	113
2613	2-5/8 – 2-3/4	2-5/16 – 2-3/8	18	54	84	108	120	132	12-3/4	3	5	36-1/2	66-1/2	90-1/2	103	115
2614	2-7/8 – 3	2-7/16 – 2-5/8	21	59	86	110	122	134	13-3/8	3-1/4	5-1/4	41	68	92	104	116
2615	3-1/4	2-11/16 – 2-3/4	21	61	88	112	124	136	14-1/8	3-1/2	5-3/4	42-1/2	69-1/2	93-1/2	106	118
2616	3-1/2	2-7/8 – 3	21	63	90	114	126	138	15-1/4	3-3/4	6-3/4	45	72	96	108	120
2617	3-3/4	3-1/8 – 3-1/4	24	70	94	118	130	142	17-1/4	4	7	50	74	98	110	122
2618	(none)	3-3/8 – 3-1/2	24	75	99	123	135	147	18-5/16	4-1/4	7-1/4	53	77	101	113	125
2619	4	3-5/8 – 3-3/4	24	80	104	128	140	152	19-3/8	4-1/2	7-1/2	55-1/2	79-1/2	103-1/2	115-1/2	127
2620	4-1/4 – 4-3/8	3-7/8 – 4	24	84	108	132	144	156	20-7/16	4-3/4	7-3/4	57-1/2	81-1/2	105-1/2	117-1/2	129
2621	4-1/2 – 4-3/4	4-1/8 – 4-3/8	25	87	110	134	146	158	20	5	8	59-1/2	82	107	118-1/2	130
2622	5 – 5-1/4	4-1/2 – 4-3/4	27	90	111	135	147	159	21	5-1/4	8-1/4	62	83	109	119	131
2623	5-1/2 – 5-3/4	4-7/8 – 5-1/8	30	96	114	138	150	162	22	5-1/2	8-1/2	67	85	111	121	133
2624	6	5-1/4 – 5-1/2	31	99	117	141	153	165	23	5-3/4	8-3/4	69-1/2	87-1/2	113	123-1/2	135



			TH for Take-Up						Wt. (lb) Take-Up					
J	K	O	Std.	48"	72"	84"	96"	Q	S	Std.	48"	72"	84"	96"
3-1/8	2-1/8	1-1/4	10-1/2	49-1/2	73-1/2	85-1/2	97-1/2	5/8	4-3/4	9	16	19	21	23
3-1/4	2-1/2	1-1/2	10-3/4	49-3/4	73-3/4	85-3/4	97-3/4	13/16	5-7/8	16	26	29	31	35
4-3/8	3-1/4	1-3/4	11-1/4	50-1/4	74-1/4	86-1/4	98-1/4	1	6-1/2	28	45	50	54	60
5	3-3/4	2	11-1/2	50-1/2	74-1/2	86-1/2	98-1/2	1-1/8	7-3/8	40	62	69	75	83
5-13/16	4-1/8	2-1/4	11-3/4	50-3/4	74-3/4	86-3/4	98-3/4	1-1/4	8-1/8	55	82	90	98	106
6	4-11/16	2-1/2	15	51	75	87	99	1-1/2	8-5/8	68	98	109	119	129
6-1/4	4-3/4	3	15-1/2	51-1/2	75-1/2	87-1/2	99-1/2	1-5/8	9-3/4	100	143	157	169	185
6-7/16	5-1/4	3	15-3/4	51-3/4	75-3/4	87-3/4	99-3/4	1-5/8	10-7/16	124	173	189	207	223
6-11/16	6-3/8	3-1/2	19-1/4	52-1/4	76-1/4	88-1/4	100-1/4	2	11-11/16	228	239	260	280	302
7-7/8	7-1/4	4	19-3/4	52-3/4	76-3/4	88-3/4	100-3/4	2-1/4	13-1/8	249	323	350	376	404
8-11/16	8-1/8	4-1/2	23-1/4	53-1/4	77-1/4	89-1/4	101-1/4	2-1/2	14-3/4	356	439	463	497	531
10-1/8	8-3/4	5	23-3/4	53-3/4	77-3/4	89-3/4	101-3/4	2-3/4	16-1/2	485	586	627	647	707
11-13/16	9-3/4	5-3/8	24-1/4	54-1/4	78-1/4	90-1/4	102-1/4	3	18	610	730	778	826	874
12-13/16	10-5/8	6	27-3/4	54-3/4	78-3/4	90-3/4	102-3/4	3-1/4	19-1/4	776	903	960	1018	1072
12-1/2	11-1/4	6-1/4	28-1/4	55-1/4	79-1/4	91-1/4	103-1/4	3-1/2	20-1/4	882	1030	1095	1161	1225
15-1/4	11-7/8	7-1/2	28-3/4	55-3/4	79-3/4	91-3/4	103-3/4	3-3/4	22	1180	1349	1425	1499	1575
17-1/8	13	7-3/4	32-1/4	56-1/4	80-1/4	92-1/4	104-1/4	4	24	1508	1679	1765	1851	1935
19-1/4	13-7/8	8	32-3/4	56 3/4	80-3/4	92-3/4	104-3/4	4-1/8	26	1621	1821	1917	2013	2109
18-1/4	12-3/4	8-1/4	33-1/4	57-1/4	81-1/4	93-1/4	105-1/4	4-1/2	27-5/8	2031	2251	2360	2468	2129
20	13-7/16	8-1/2	33-3/4	57-3/4	81-3/4	93-3/4	105-3/4	4-3/4	29-7/16	2444	2684	2805	2925	3047
20	14	8-3/4	36	58-1/2	82-1/2	94-1/2	106-1/2	5-1/4	28	2310	2480	3100	3234	3368
21-1/4	14-7/8	9	37	59-1/2	83-1/2	95-1/2	107-1/2	5-3/4	30-1/4	2910	3130	3680	3828	3976
22-3/4	16	9-1/4	40-1/2	60-1/2	84-1/2	96-1/2	108-1/2	6-1/4	31-1/2	3425	3625	4120	4762	4442
24-1/2	17	9-1/2	41-1/2	62	86	98	110	6-1/2	33	4165	4400	4600	4778	4956

TYPE 6

ANCHOR SOCKETS



Type 6 Anchor Sockets

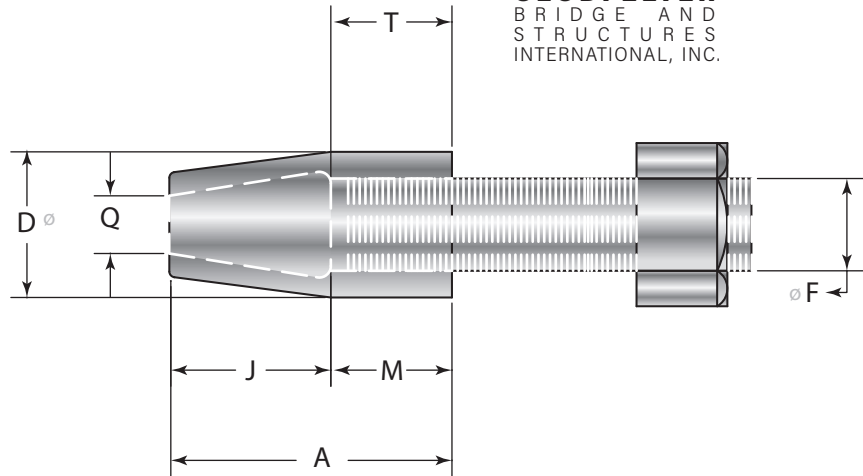
This socket is used for structural strand and rope. It is provided with a rod and a semi-finished, heavy hex nut for tensioning cable assemblies and making final length adjustments.

Tolerances

- Dimensions under 4": $\pm 1/16"$
- Dimensions over 4": $\pm 1/8"$
- Q (smaller sizes): $\pm 1/32"$

Note

Dimensions and tolerances shown are prior to galvanize.



Rope Diameter (in.)	Dimensions (in.)							Weight Each (lbs.)	Strand Diameter (in.)
	A	D	F	J	M	Q	T		
1/2	5-1/16	2-5/8	1	2-7/8	2-3/16	7/8	1-9/16	5	1/2
5/8	6	2-15/16	1-1/4	3-9/16	2-7/16	1	1-13/16	8	9/16 – 5/8
3/4	6-13/16	3-1/4	1-1/2	4-3/16	2-5/8	1-1/8	2	11	11/16 – 3/4
7/8 – 1	7-3/4	3-9/16	1-3/4	4-7/8	2-7/8	1-1/4	2-1/4	14	13/16 – 7/8
1-1/8	8-11/16	3-7/8	2	5-9/16	3-1/8	1-3/8	2-1/2	18	15/16 – 1
1-1/4	8-7/8	4-3/16	2-1/4	5-7/8	3-3/8	1-1/2	2-3/4	21	1-1/16 – 1-1/8
1-3/8	9-1/4	4-3/16	2-1/2	5-1/4	3-5/8	1-5/8	3	22	1-3/16 – 1-1/4
1-1/2	9-3/8	4-7/16	2-3/4	5-1/2	3-7/8	1-3/4	3-1/4	25	1-5/16 – 1-3/8
1-5/8	9-7/8	4-7/8	3	5-3/4	4-1/8	1-7/8	3-1/2	30	1-7/16 – 1-1/2
1-3/4	10-3/8	5-1/8	3-1/4	6	4-3/8	2	3-3/4	35	1-9/16 – 1-5/8
1-7/8 – 2	11	5-3/8	3-1/2	6-1/4	4-3/4	2-1/8	4	41	1-11/16 – 1-3/4
2-1/8	11-3/8	5-3/4	3-3/4	6-1/2	4-7/8	2-1/4	4-1/4	48	1-13/16 – 1-7/8
2-1/4	11-7/8	6	4	6-3/4	5-1/8	2-3/8	4-1/2	54	1-15/16 – 2
2-3/8	12-1/4	6-5/16	4	7	5-1/4	2-1/2	4-1/2	65	2-1/16 – 2-1/8
2-1/2	12-3/4	6-11/16	4-1/4	7-1/4	5-1/2	2-3/4	4-3/4	77	2-3/16 – 2-1/4
2-5/8	13-1/8	7-1/16	4-1/2	7-1/2	5-5/8	2-3/4	5	89	2-5/16 – 2-3/8
2-3/4 – 2-7/8	13-5/8	7-9/16	4-3/4	7-3/4	5-7/8	2-15/16	5-1/4	106	2-7/16 – 2-9/16
3	14-1/4	8-1/8	5	8-1/8	6-1/8	3-1/8	5-1/2	131	2-5/8 – 2-3/4
3-1/4	15-5/8	8-3/4	5-1/2	8-7/8	6-3/4	3-3/8	6	169	2-7/8 – 3
3-1/2	16-7/8	9-11/16	6	9-3/4	7-1/8	3-3/4	6-1/2	219	3-1/8 – 3-1/4
3-3/4	17-7/8	10-3/8	6-1/4	10-3/8	7-1/2	4	6-3/4	275	3-3/8 – 3-1/2
4	19-3/4	11-1/4	6-3/4	11-1/8	8-5/8	4-1/4	8	351	3-5/8 – 3-3/4
4-1/4	20-1/4	11-3/4	7-1/4	11-3/4	8-1/2	4-1/2	7-3/4	376	3-7/8 – 4
4-1/2 – 4-3/4	20-1/4	11-3/4	7-1/4	11-3/4	8-1/2	5-1/4	8	405	4-1/8 – 4-3/8
5 – 5-1/4	22	12-1/2	7-3/4	12-1/2	9-1/2	5-3/4	8-3/4	441	4-1/2 – 4-3/4
5-1/2 – 5-3/4	23-1/2	13-1/2	8	13-3/4	9-3/4	6-1/4	9	567	4-7/8 – 5-1/8
6	25	14	8-1/4	15	10	6-1/2	9-1/4	639	5-1/4 – 5-1/2



TYPE 7 ANCHOR SOCKETS

Type 7 Anchor Sockets Zinc-Poured

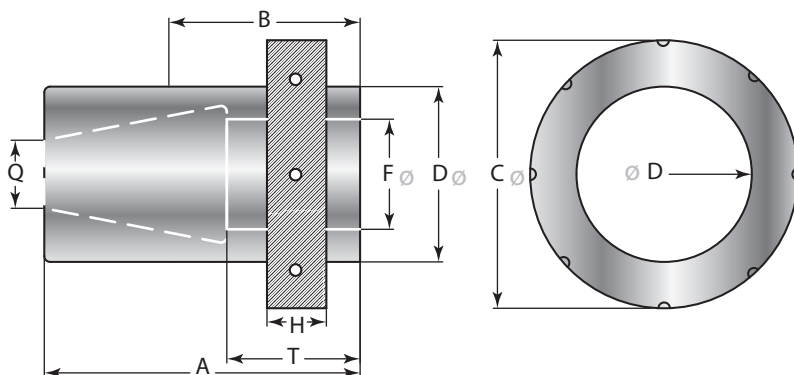
This socket is used for structural strand and rope. The anchor connection is affected through the bearing of an adjustable spanner nut. Furnished with or without internal threads (internal threads are used to accommodate tensioning jack).

Tolerances

- Dimensions under 4": $\pm 1/16"$
- Dimensions over 4": $\pm 1/8"$
- Q (smaller sizes): $\pm 1/32"$

Note

Dimensions and tolerances shown are prior to galvanize.



Rope Diameter (in.)	Dimensions (in.)								Weight Each (lbs.)	Strand Diameter (in.)
	A	B	C	D	F	H	Q	T		
1/2	5-1/16	2-1/2	3-7/8	2-5/8	1	1/2	7/8	1-9/16	6	1/2
5/8	6	2-7/8	4-1/16	2-15/16	1-1/4	5/8	1	1-13/16	8	9/16 – 5/8
3/4	6-13/16	3-1/4	4-1/2	3-1/4	1-1/2	3/4	1-1/8	2	11.5	11/16 – 3/4
7/8 – 1	7-3/4	3-1/2	5-1/16	3-9/16	1-3/4	7/8	1-1/4	2-1/4	15.5	13/16 – 7/8
1-1/8	8-11/16	3-3/4	5-1/2	3-7/8	2	1	1-3/8	2-1/2	20.5	15/16 – 1
1-1/4	9-1/4	4-1/2	5-15/16	4-3/16	2-1/4	1-1/8	1-1/2	2-3/4	25.5	1-1/16 – 1-1/8
1-3/8	8-7/8	4-3/4	6-3/16	4-3/16	2-1/2	1-1/4	1-5/8	3	24	1-3/16 – 1-1/4
1-1/2	9-3/8	5-1/2	6-5/8	4-7/16	2-3/4	1-3/8	1-3/4	3-1/4	30	1-5/16 – 1-3/8
1-5/8	9-7/8	6	7-1/8	4-7/8	3	1-1/2	1-7/8	3-1/2	38.5	1-7/16 – 1-1/2
1-3/4	10-3/8	6-1/4	7-9/16	5-1/8	3-1/4	1-5/8	2	3-3/4	45	1-9/16 – 1-5/8
1-7/8 – 2	10-7/8	6-3/8	8	5-3/8	3-1/2	1-3/4	2-1/8	4	52.5	1-11/16 – 1-3/4
2-1/8	11-3/8	6-3/4	8-1/2	5-3/4	3-3/4	1-7/8	2-1/4	4-1/4	63	1-13/16 – 1-7/8
2-1/4	11-1/2	7	9-1/4	6-1/4	4	2	2-5/16	4-1/4	75.5	1-15/16 – 2
2-3/8	12-1/8	7-1/4	9-9/16	6-5/16	4	2-1/8	2-1/2	4-1/2	88	2-1/16 – 2-1/8
2-1/2	12-5/8	7-1/2	10-1/8	6-11/16	4-1/4	2-1/4	2-3/4	4-3/4	98.5	2-3/16 – 2-1/4
2-5/8	13-1/8	8	10-11/16	7-1/16	4-1/2	2-3/8	2-3/4	5	118.5	2-5/16 – 2-3/8
2-3/4 – 2-7/8	13-5/8	8-1/4	11-9/16	7-9/16	4-3/4	2-9/16	2-15/16	5-1/4	140.5	2-7/16 – 2-9/16
3	14-1/4	8-1/2	12-5/16	8-1/8	5	2-3/4	3-1/8	5-1/2	174.5	2-5/8 – 2-3/4
3-1/4	15-5/8	9-1/4	13-1/4	8-3/4	5-1/2	3	3-3/8	6-1/8	225	2-7/8 – 3
3-1/2	16-7/8	9-1/2	14-3/8	9-3/4	6	3-1/4	3-3/4	6-1/2	292	3-1/8 – 3-1/4
3-3/4	17-3/4	9-3/4	15-1/4	10-3/8	6-1/4	3-1/2	4	6-3/4	361	3-3/8 – 3-1/2
4	19-3/4	10	16-1/2	11-1/4	6-3/4	3-3/4	4-1/4	7-3/4	461	3-5/8 – 3-3/4
4-1/4	20-1/8	10-3/4	16-1/2	11-3/4	7-1/4	4	4-1/2	7-3/4	487	3-7/8 – 4
4-1/2 – 4-3/4	20-1/4	10-3/4	17-1/4	11-3/4	7-1/4	4-3/8	5	8	522	4-1/8 – 4-3/8
5 – 5-1/4	22	11-3/4	17-1/2	12-1/2	7-3/4	4-3/4	5-3/8	8-3/4	575	4-1/2 – 4-3/4
5-1/2 – 5-3/4	23-1/2	12	18-3/4	13-1/2	8	5-1/8	5-7/8	9	734	4-7/8 – 5-1/8
6	25	12-1/4	19-1/2	14	8-1/4	5-1/2	6-1/4	9-1/4	836	5-1/4 – 5-1/2



TYPE 8



Type 8 Anchor Sockets Zinc-Poured

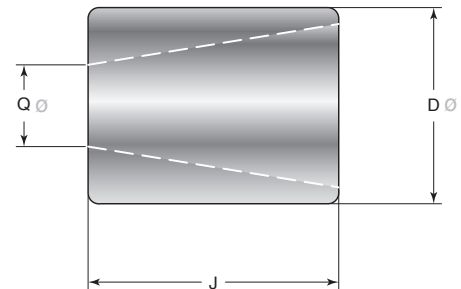
Used for structural strand and rope, this is a bearing-type socket. Its assembly length is adjusted by shimming at the bearing surface.

Tolerances

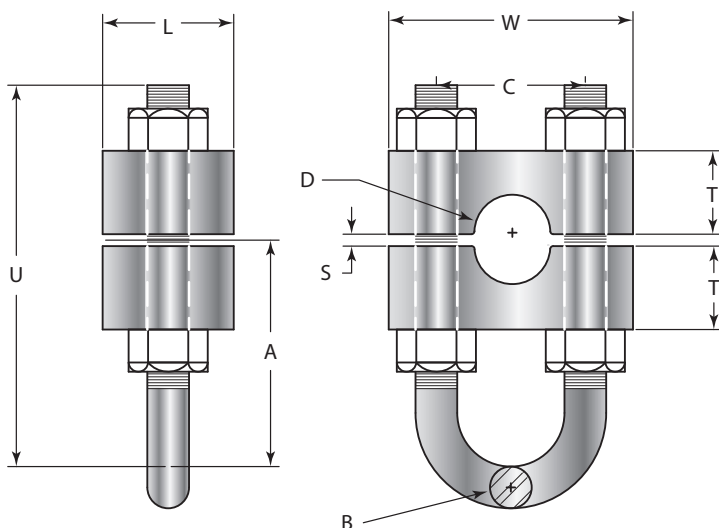
- Dimensions under 4": $\pm 1/16"$
- Dimensions over 4": $\pm 1/8"$
- Q (smaller sizes): $\pm 1/32"$

Note

Dimensions and tolerances shown are prior to galvanize.



Rope Diameter (in.)	Dimensions (in.)			Approx. Weight (lbs.)	Strand Diameter (in.)
	D	J	Q		
1/2	2-5/8	2-7/8	7/8	2.5	1/2
5/8	2-15/16	3-9/16	1	4	9/16 – 5/8
3/4	3-1/4	4-3/16	1-1/8	5.5	11/16 – 3/4
7/8 – 1	3-9/16	4-7/8	1-1/4	8	13/16 – 7/8
1-1/8	3-7/8	5-9/16	1-3/8	10.5	15/16 – 1
1-1/4	4	5-7/8	1-1/2	12.5	1-1/16 – 1-1/8
1-3/8	4-1/8	5-1/4	1-5/8	10	1-3/16 – 1-1/4
1-1/2	4-3/16	5-1/2	1-3/4	11	1-5/16 – 1-3/8
1-5/8	4-1/2	5-3/4	1-7/8	13	1-7/16 – 1-1/2
1-3/4	4-13/16	6	2	16.5	1-9/16 – 1-5/8
1-7/8 – 2	5-1/8	6-1/4	2-1/8	20	1-11/16 – 1-3/4
2-1/8	5-1/2	6-1/2	2-1/4	24	1-13/16 – 1-7/8
2-1/4	5-15/16	6-3/4	2-3/8	31	1-15/16 – 2
2-3/8	6-5/16	7	2-1/2	37	2-1/16 – 2-1/8
2-1/2	6-11/16	7-1/4	2-3/4	44	2-3/16 – 2-1/4
2-5/8	7-1/16	7-1/2	2-3/4	53	2-5/16 – 2-3/8
2-3/4 – 2-7/8	7-9/16	7-3/4	2-15/16	62	2-7/16 – 2-9/16
3	8-1/8	8-1/8	3-1/8	76	2-5/8 – 2-3/4
3-1/4	8-3/4	8-7/8	3-3/8	99	2-7/8 – 3
3-1/2	9-11/16	9-3/4	3-3/4	130	3-1/8 – 3-1/4
3-3/4	10-3/8	10-3/8	4	161	3-3/8 – 3-1/2
4	11-1/16	11-1/8	4-1/4	194	3-5/8 – 3-3/4
4-1/4	11-3/4	11-3/4	4-1/2	227	3-7/8 – 4
4-1/2 – 4-3/4	11-3/4	11-3/4	5-1/4	233	4-1/8 – 4-3/8
5 – 5-1/4	12-1/2	12-1/2	5-3/4	266	4-1/2 – 4-3/4
5-1/2 – 5-3/4	13-1/2	13-3/4	6-1/4	339	4-7/8 – 5-1/8
6	14	15	6-1/2	390	5-1/4 – 5-1/2



BRIDGE CLAMPS

Type A Clamp for Main Cables or Wind Cables

- Tower clamps
- Tower saddles
- Pipe clamps
- Wind clamps

Note

Multiple groove clamps available.

Saddles

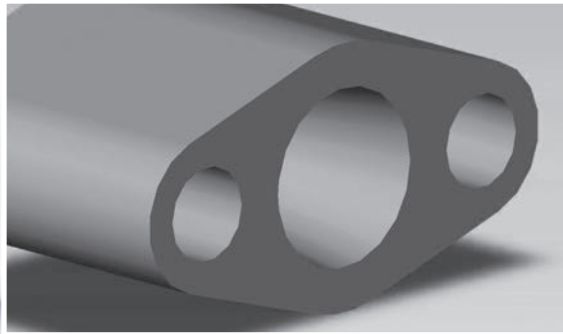
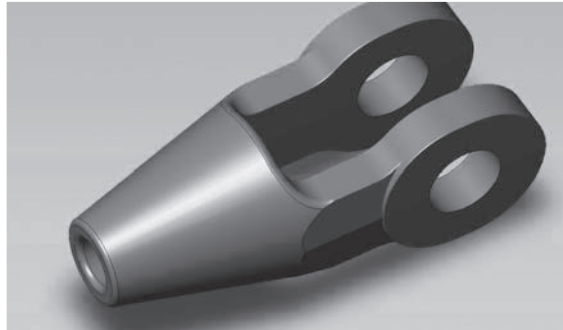
- Tower
- Wind saddles

Clamps

- Main cable
- Suspender
- Pipe
- Tower
- Special

Cable Diameter (in.)	Dimensions (in.)									Weight Each (in.)
	A	B	C	D	L	S	T	U	W	
1/2	2-3/8	1/2	1-1/2	19/32	1-3/4	3/16	5/8	4	2-5/8	2
5/8	2-3/4	1/2	1-5/8	23/32	1-7/8	3/16	3/4	4-5/8	3	3
3/4	3-1/2	5/8	2	27/32	2	3/16	1	5-1/2	3-1/2	4.5
7/8	3-1/2	5/8	2	31/32	2	3/16	1	5-1/2	3-1/2	4.5
1	3-5/8	3/4	2-1/4	1-3/32	2-1/4	3/16	1-1/4	6	4	7.5
1-1/8	3-5/8	3/4	2-1/4	1-7/32	2-1/4	3/16	1-1/4	6	4	7.5
1-1/4	4	3/4	2-5/8	1-11/32	2-1/2	1/4	1-1/2	6-3/4	4-3/8	10
1-3/8	4	3/4	2-5/8	1-15/32	2-1/2	1/4	1-1/2	6-3/4	4-3/8	10
1-1/2	4-3/4	7/8	3-1/8	1-19/32	2-3/4	1/4	1-3/4	8	5-1/8	15
1-5/8	4-3/4	7/8	3-1/8	1-23/32	2-3/4	1/4	1-3/4	8	5-1/8	15
1-3/4	5-1/4	1	3-1/2	1-27/32	3	1/4	2	8-7/8	6	25
1-7/8	5-1/4	1	3-1/2	1-31/32	3	1/4	2	8-7/8	6	25
2	5-7/8	1-1/8	4	2-3/32	3-1/4	5/16	2-1/4	10	6-1/2	30
2-1/8	5-7/8	1-1/8	4	2-7/32	3-1/4	5/16	2-1/4	10	6-1/2	30
2-1/4	6-1/2	1-1/4	4-1/2	2-11/32	3-1/2	3/8	2-1/2	11-1/8	7-1/4	43
2-3/8	6-1/2	1-1/4	4-1/2	2-15/32	3-1/2	3/8	2-1/2	11-1/8	7-1/4	43
2-1/2	7-1/4	1-1/4	5	2-19/32	4	3/8	2-3/4	12-1/4	7-3/4	53
2-5/8	7-1/4	1-1/4	5	2-23/32	4	3/8	2-3/4	12-1/4	7-3/4	53
2-3/4	8	1-3/8	5-1/4	2-27/32	4-1/2	3/8	3	13-1/4	8-1/2	72
2-7/8	8	1-3/8	5-1/4	2-31/32	4-1/2	3/8	3	13-1/4	8-1/2	72
3	8-1/2	1-1/2	5-1/2	3-3/32	5	3/8	3-1/4	14-1/4	9	92

3D modeling allows CBSI engineers to explore options from every angle, optimizing component design to maximize strength, minimize cost, and streamline installation efficiency.



Prolite Sockets

High strength Prolite sockets are architecturally pleasing with 100% terminal efficiency.

Find specifications on the following pages.



OP SERIES

OPEN PROLITE SOCKETS

Material Specification

- ASTM A148 GR105/85
- Tolerances Apply
- Galvanized to ASTM A123/A153
- Pin & Cap: AISI 4130-4150
- Nitronic Pins Available

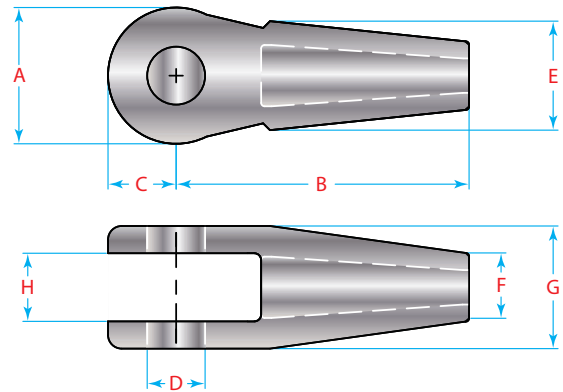
Tolerances

- H: $\pm 1/8"$

Note

Available in sizes up to 150 mm

Dimensions and tolerances shown are prior to galvanize.



P/N (MM)	Cable Dia. (MM)									Weight Each (lbs.)	
		A	B	C	D	E	F	G	H	Socket	Pin/Caps
OP20	20	86	280	57	46	190	78	86	58	15	4
OP25	25	90	336	60	50	196	82	90	60	18	5
OP30	30	106	390	74	58	200	88	108	74	35	7
OP35	35	124	415	85	70	206	92	124	88	52	9
OP40	40	132	424	98	78	210	96	135	94	70	15
OP45	45	148	444	106	84	215	100	150	98	95	19
OP50	50	160	480	118	94	242	120	160	106	125	26
OP55	55	171	524	120	106	264	126	172	114	134	32
OP60	60	184	570	130	115	300	150	184	124	164	41
OP65	65	200	615	140	124	316	168	200	132	210	54
OP70	70	213	650	150	136	324	170	214	140	260	69
OP75	75	228	702	158	140	342	180	230	150	316	78
OP80	80	244	740	170	148	380	186	246	160	375	97
OP85	85	253	790	180	160	392	190	260	170	470	118
OP90	90	275	830	190	170	420	200	276	180	550	140
OP95	95	290	878	206	180	430	210	290	190	660	169
OP100	100	305	912	215	190	480	215	306	200	788	210
OP105	105	320	960	220	200	486	226	318	210	890	228
OP110	110	335	1000	230	206	520	246	336	218	1107	303





OPA SERIES ADJUSTABLE PROLITE SOCKETS

Material Specification

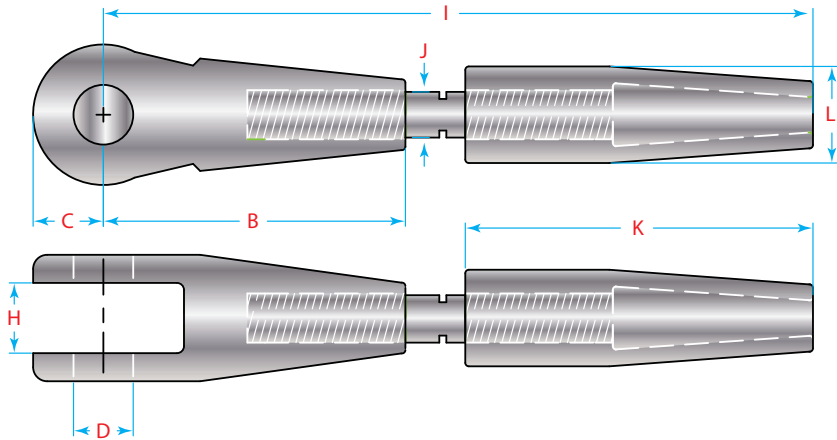
- ASTM A148 GR105/85
Mag, Partial Inspection
- Tolerances Apply
- Galvanized to
ASTM A123/A153
- Pin & Cap: AISI 4130-4150
- Nitronic Pins Available
- Rod: AISI 4130-4150

Tolerances

- H: $\pm 1/8"$
- I: length varies with
varying takeup.
Shown with $\pm 2"$ (50mm)

Note

Available in sizes up to 150 mm
Dimensions and tolerances shown
are prior to galvanize.



P/N (MM)	Cable Dia. (MM)	A	B	C	D	E	F	G	H	I	J	K	L	Assembly Weight
OPA20	20	86	280	57	46	190	78	86	58	630	40	178	83	56
OPA25	25	90	336	60	50	196	82	90	60	640	50	194	102	94
OPA30	30	106	390	74	58	200	88	108	74	714	58	228	116	121
OPA35	35	124	415	85	70	206	92	124	88	822	66	238	119	164
OPA40	40	132	424	98	78	210	96	135	94	875	75	256	128	215
OPA45	45	148	444	106	84	215	100	150	98	915	78	280	146	268
OPA50	50	160	480	118	94	242	120	160	106	986	90	300	153	290
OPA55	55	171	524	120	106	264	126	172	114	1090	94	330	162	322
OPA60	60	184	570	130	115	300	150	184	124	1106	100	336	180	390
OPA65	65	200	615	140	124	316	168	200	132	1200	105	354	204	488
OPA70	70	213	650	150	136	324	170	214	140	1290	112	372	217	606
OPA75	75	228	702	158	140	342	180	230	150	1360	118	380	225	712
OPA80	80	244	740	170	148	380	186	246	160	1446	128	432	250	844
OPA85	85	253	790	180	160	392	190	260	170	1504	130	458	265	1012
OPA90	90	275	830	190	170	420	200	276	180	1614	138	472	272	1296
OPA95	95	290	878	206	180	430	210	290	190	1662	146	498	300	1456
OPA100	100	305	912	215	190	480	215	306	200	1786	152	500	318	1693
OPA105	105	320	960	220	200	486	226	318	210	1880	160	518	326	1875
OPA110	110	335	1000	230	206	520	246	336	218	2004	175	560	340	2290

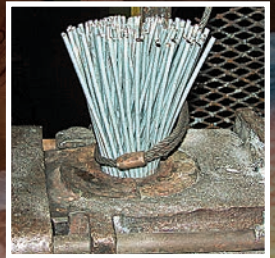


Tensioning of the Prolite System during field installation is crucial for the life of the bridge.



Socket Process

Strand socket casting with zinc attachment of structural strand





245 McCarty Drive
Houston, Texas 77029
713-675-1180
www.cbsiusa.com