

Chain

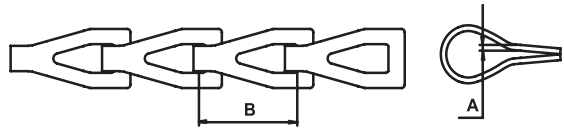
Carbon Chains

RIGGING



Sash Chain

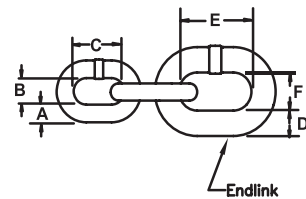
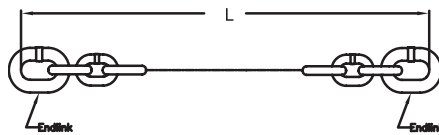
- Meets or exceeds ASTM & NACM standards where applicable
- Available in various finishes
- Sold by carton, reel or pails
- Custom cuts for OEM applications are available



Typically uses for sash chain are pulley applications in windows and window sashes.

Trade Size	Working Load Limit	Product Code			Quantity Per Carton	A	B	App. Weight	App. No. of Links
		(Self Colored)	(Zinc Plated)	(Copper Dipped)					
Imperial									
	lb.				ft.	in.	in.	lb. / ft.	per ft.
8	75	683151	683451	683551	100	0.035	0.550	3.90	21.82
25	94	683152	683452	683552	100	0.042	0.550	4.90	21.82
30	81	683153	683453	683553	100	0.028	0.560	5.50	21.43
35	106	683154	683454	683554	100	0.035	0.560	5.90	21.43
40	131	683156	683456	683556	100	0.042	0.560	8.00	21.43
45	175	683157	683457	683557	100	0.050	0.560	9.50	21.43
50	225	683158	683458	683558	100	0.062	0.590	12.00	20.34

Buoy Chain



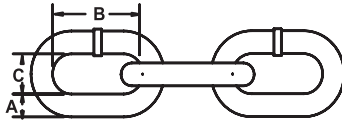
Chain Size	Working Load Limit	Product Code	Chain Dimensions				Endlink Dimensions				Finish	Weight
			L	A	B	C	D	E	F			
Imperial												
in.	lb.		ft.	in.	in.	in.	in.	in.	in.		lb. / ft.	
1/2	15,000	6510049	90	0.500	3.00	1.875	0.750	4.50	2.688	Self Colored	2.15	
1/2	15,000	6510048	45	0.500	3.00	1.875	0.750	4.50	2.688	Self Colored	2.15	
3/4	32,000	6510050	90	0.750	4.50	2.688	0.875	5.25	3.125	Self Colored	4.80	
3/4	32,000	6510051	45	0.750	4.50	2.688	0.875	5.25	3.125	Self Colored	4.80	
1	58,000	4340890	90	1.000	6.00	3.583	1.000	4.08	1.563	Self Colored	8.60	
1	58,000	4340890G	90	1.000	6.00	3.583	1.000	4.08	1.563	Hot dipped Galvanizec	9.60	
1-1/8	77,000	4340990	90	1.125	6.75	4.000	1.125	4.59	1.750	Self Colored	10.80	
1-1/4	91,000	4341090	90	1.250	7.50	4.438	1.250	5.10	1.938	Self Colored	13.50	

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Chain

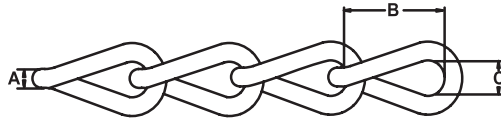
Carbon Chains

Machine Chain Straight Link



Trade Size	Working Load Limit	Product Code	Quantity Per Pack	A	B	C	App. Weight	App. No. of Links
Imperial								
	lb.		ft.	in.	in.	in.	lb. / ft.	per ft.
#4	215	621309	100	0.120	0.550	0.210	0.117	21.18
#3	270	621311	100	0.135	0.590	0.240	0.152	20.34
#2	325	621313	100	0.148	0.610	0.260	0.183	19.67
1/0	465	621317	100	0.177	0.740	0.310	0.271	16.22
2/0	545	621319	100	0.192	0.780	0.340	0.326	15.38
4/0	700	621321	100	0.218	0.990	0.380	0.386	12.12
5/0	925	621325	100	0.250	1.070	0.440	0.544	11.21

Machine Chain Twisted Link



Trade Size	Working Load Limit	Product Code	Quantity Per Pack	A	B	C	App. Weight	App. No. of Links
Imperial								
	lb.		ft.	in.	in.	in.	lb. / ft.	per ft.
#4	205	621809	100	0.120	0.520	0.170	0.121	23.08
#3	255	621811	100	0.135	0.560	0.200	0.161	21.43
#2	310	621813	100	0.148	0.580	0.210	0.192	20.69
1/0	440	621817	100	0.177	0.680	0.260	0.284	17.65
2/0	520	621819	75	0.192	0.730	0.280	0.342	16.44
4/0	670	621821	100	0.218	0.890	0.320	0.405	13.48
5/0	880	621825	100	0.250	1.000	0.370	0.573	12.00

RIGGING






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Rope

Rope Fiber Comparison

ROPE CONSTRUCTION SELECTION GUIDE

RIGGING

Characteristics	Solid Braid	Hollow Braid	Double Braid	Maypole Braid / Diamond Braid	Twisted
Number of strands or carriers	9, 12, or 18	8, 12, or 16	16, 20, 24, OR 32	8, 12, OR 16	3
Spliceable	NO	YES	YES	NO	YES
Strength to weight (<i>Best-1, Poorest-5</i>)	5	1	2	4	3
Flexibility (<i>Best-1, Poorest-5</i>)	3	1	2	4	5
Flattens under load	NO	YES	NO	YES	NO
Rotates under load	NO	NO	NO	NO	YES
Mechanical elongation (<i>High-1, Low-5</i>)	1	4	5	3	2
Cost per size (<i>High-1, Low-5</i>)	2	4	1	3	5
Working Load (% of tensile)	5 - 20%	5 - 20%	5 - 20%	5 - 20%	5 - 20%
Abrasion Resistance (<i>Best-1, Poorest-5</i>)	1	5	2	3	5
					

ROPE FIBER SELECTION GUIDE

FIBER TYPE	Nylon	Polyester	Polypropylene	Manila
Strength (<i>Best-1, Poorest-5</i>)	1	2	3	4
Wet Strength vs. Dry Strength	85%	100%	100%	115%
Shock Load Ability (<i>Best-1, Poorest-5</i>)	1	3	2	4
Floats or Sinks in Water	Sinks	Sinks	Floats	Sinks
Elongation at Break (<i>Approximate</i>)	20% - 34%	15% - 20%	15% - 20%	10% - 15%
Water Absorption	6%	<1%	Zero	100%
Melting Point	480°F	500°F	330°F	Does Not Melt Chars at 350° F
Abrasion Resistance (<i>Best-1, Poorest-5</i>)	2	1	4	3
Degradation: <i>Resistance to Sunlight</i>	Good	Excellent	Poor	Good
Degradation: <i>Resistance to Rot</i>	Excellent	Excellent	Excellent	Poor
Degradation: <i>Resistance to Acids</i>	Poor	Good	Good	Poor
Degradation: <i>Resistance to Alkalis</i>	Good	Poor	Good	Poor
Degradation: <i>Resistance to Oil & Gas</i>	Good	Good	Good	Poor
Electrical Conductivity Resistance	Poor	Good	Good	Poor
Flexing Endurance (<i>Best-1, Poorest-5</i>)	1	2	3	4
Specific Gravity	1.14	1.38	.90	1.38
Storage Requirements	Wet or Dry	Wet or Dry	Wet or Dry	Dry Only

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Rope

Cordage



SPECIFICATIONS THREE STRAND

SIZE (Inches)		MANILA		POLYPROPYLENE		NYLON		DACRON (Polyester)		SISAL ROPE	
DIA.	CIR.	Tensile Strength	Lbs. Per 100 Ft.	Tensile Strength	Lbs. Per 100 Ft.	Tensile Strength	Lbs. Per 100 Ft.	Tensile Strength	Lbs. Per 100 Ft.	Tensile Strength	Lbs. Per 100 Ft.
3/16	5/8	405	1.5	720	.70	1000	1.0	1000	1.2	36	1.5
1/4	3/4	540	2.0	1130	1.2	1650	1.5	1650	2.0	48	2.0
5/16	1	900	2.9	1710	1.8	2550	2.5	2550	3.1	80	2.9
3/8	1-1/8	1215	4.1	2430	2.8	3700	3.5	3700	4.5	108	4.1
1/2	1-1/2	2385	7.5	3780	4.7	6400	6.5	6400	8.0	236	7.5
5/8	2	3960	13.3	5580	7.5	10400	10.5	10000	13.0	440	13.3
3/4	2-1/4	4860	16.7	7650	10.7	14200	14.5	12500	17.5	617	16.7
7/8	2-3/4	6930	22.5	10400	15.0	20000	20.0	18000	25.0		
1	3	8100	27.0	12600	18.0	25000	26.0	22000	30.5		
1-1/8	3-1/2	10800	36.0	16500	23.7	33000	34.0	29500	40.0		
1-1/4	3-3/4	12150	41.8	18900	27.0	37500	40.0	33200	46.3		
1-1/2	4-1/2	16650	60.0	26700	38.5	53000	55.0	46800	66.8		
1-5/8	5	20250	74.4	32400	47.5	65000	68.0	57000	82.0		
1-3/4	5-1/2	23850	89.5	38700	57.0	78000	83.0	67800	98.0		
2	6	27900	108.0	46800	69.0	92000	95.0	80000	118.0		
2-1/4	7	36900	146.0	62100	92.0	125000	129.0	107000	157.0		
2-1/2	7-1/2	41850	167.0	72000	107.0	140000	149.0	122000	181.0		
3	9	57600	242.0	103000	153.0	200000	210.0	174000	258.0		
3-1/2	11	81900	367.0	146000	232.0	300000	316.0	254000	384.0		
4	12	94500	436.0	171000	275.0	360000	379.0	300000	460.0		
RECOMMENDED WORK LOADS		20% OF BREAKING TEST		17% OF BREAKING TEST		11% OF BREAKING TEST		11% OF BREAKING TEST			

LARGER
SIZES
ON
REQUEST

MEETS DESIGN REQUIREMENTS ACCORDING TO FEDERAL SPECIFICATION T-R-605B, GRADE 1

- Never exceed the working load limit of rope.
- Attachments must have at least same working load limit as the rope used.
- Keep out from under a raised load.
- Destroy, rather than discard, rope to be retired.
- Inspect rope frequently; store properly.
- Avoid overheating, shock loads, chemicals, rust and abrasion.

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