



... "A Winch For Every Application"

Reference Charts

Wire Rope Specifications

Preformed Galvanized Aircraft Cable 7 x 19			Steel L.W.R.C. 6 x 37		
Size Diameter in Inches	Weight per 100' lbs.	Breaking Strength in lbs.	Size Diameter in Inches	Weight per 100' lbs.	Breaking Strength in lbs.
1/8"	2.9	2,000	7/16"	33	20,400
3/16"	6.5	4,200	1/2"	43	26,600
1/4"	11.0	7,000	9/16"	54	33,600
5/16"	17.3	9,800	5/8"	67	41,200
3/8"	24.3	14,400	3/4"	96	58,800
			7/8"	131	79,600
			1"	170	103,400
			1-1/8"	216	130,000
			1-1/4"	266	159,800
			1-3/8"	322	192,000
			1-1/2"	384	228,000
			1-5/8"	450	264,000
			1-3/4"	522	306,000
			1-7/8"	600	348,000
			2"	682	396,000

Grades - Slope and Grade Resistance

Grade (Percent per 100 Horizontal Feet)	Slope (Degrees and Minutes per 100 Horizontal Feet)	Grade Resistance (Lbs. Pull per Ton to Overcome Grade Resistance)
1	0-34	20
2	1-9	40
3	1-43	60
4	2-17	80
5	2-52	100
6	3-26	120
7	4-0	140
8	4-34	160
9	5-9	180
10	5-43	199
11	6-17	219
12	6-51	238
13	7-24	258
14	7-58	277
15	8-32	296
16	9-39	315
17	9-5	334
18	10-12	353
19	45	373
20	10	392
25	11-19	485
30	14-2	575
35	15-17	660
40	16-42	743
45	21-48	822
50	24-14	895
55	26-34	965
60	28-49	1025
65	30-58	1085
70	33-1	1145
75	36-52	1496
80	38-40	1248
85	40-22	1295
90	41-59	1338
95	43-32	1376
100	45-0	1402

Decimal and Metric Equivalent of common fractions of an inch

	Dec.	mm		Dec.	mm		
	1	.015625	0.397	33	.515625	13.097	
1	64	.03125	0.794	17	64	.53125	13.494
32	3	.046875	1.191	32	35	.546875	13.891
1	64	.0625	1.588	9	64	.5625	14.288
16	5	.078125	1.984	16	37	.578125	14.684
3	64	.09375	2.381	19	64	.59375	15.081
32	7	.109375	2.778	32	39	.609375	15.478
1	64	.1250	3.175	5	64	.6250	15.875
8	9	.140625	3.572	8	41	.640625	16.272
5	64	.15625	3.969	21	64	.65625	16.669
32	11	.171875	4.366	32	43	.671875	17.066
3	64	.1875	4.762	11	64	.6875	17.462
16	13	.203125	5.159	16	45	.703125	17.859
7	64	.21875	5.556	23	64	.71875	18.256
32	15	.234375	5.953	32	47	.734375	18.653
1	64	.2500	6.350	3	64	.7500	19.050
4	17	.265625	6.747	4	49	.765625	19.447
9	64	.28125	7.144	25	64	.78125	19.844
32	19	.296875	7.541	32	51	.796875	20.241
5	64	.3125	7.938	13	64	.8125	20.638
16	21	.328125	8.334	16	53	.828125	21.034
11	64	.34375	8.731	27	64	.84375	21.431
32	23	.359375	9.128	32	55	.859375	21.828
3	64	.3750	9.525	7	64	.8750	22.225
8	25	.390625	9.922	8	57	.890625	22.622
13	64	.40625	10.319	29	64	.90625	23.019
32	27	.421875	10.716	32	59	.921875	23.416
7	64	.4375	11.112	15	64	.9375	23.812
16	29	.453125	11.509	16	61	.953125	24.209
15	64	.46875	11.906	31	64	.96875	24.606
32	31	.484375	12.303	32	63	.984375	25.003
1	64	.5000	12.700	1	64	1.000	25.400
2							

1 mm = .03937" 1" = 25.4 mm

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