

Sheet1

**6x19 (12/6/1) Construction**

Tensile Grade	Approximate Mass		Minimum Breaking Force corresponding to Rope Grade			
	per 100 Meter		1570		1770	
	Nominal Dia	Fibre Core	Fibre Core	Steel Core	Fibre Core	Steel Core
	Kg	Steel Core	KN	KN	KN	KN
		Kg				
2	1.4	1.6	2.2	2.3	2.4	2.6
3	3.2	3.5	4.9	5.2	5.5	5.9
4	5.7	6.3	8.6	9.3	9.8	10.6
5	8.9	9.8	13.5	14.5	15.3	16.5
6	12.9	14.1	19.4	20.9	22.0	23.8
7	17.5	19.3	26.5	28.4	29.9	32.3
8	22.8	25.2	34.6	37.1	39.0	42.2
9	28.9	31.8	43.7	47.0	49.4	53.5
10	35.7	39.3	54.0	58.0	61.0	66.0
11	43.2	47.6	65.3	70.2	73.8	79.9
12	51.4	56.6	77.8	83.5	87.8	95.0

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1960	
Fibre Core KN	Steel Core KN
2.7	2.9
6.0	6.5
10.7	11.5
16.8	18.0
24.1	25.9
32.8	35.3
42.9	46.1
54.3	58.3
67.0	72.0
81.1	87.1
96.5	103.7

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Tensile Grde Nominal Dia	Approximate Mass per 100 Meter		Minimum Breaking Force correspondng to Rope Grade			
	Fibre Core Kg	Steel Core Kg	1570		1770	
			Fibre Core KN	Steel Core KN	Fibre Core KN	Steel Core KN
3	3.1	3.4	4.4	4.9	5.0	5.3
4	5.5	6.1	7.8	8.6	9.0	9.4
5	8.7	9.5	12.3	13.5	14.0	14.8
6	12.5	13.7	17.6	19.4	20.2	21.2
7	17.0	18.6	24.0	26.5	27.4	28.9
8	22.1	24.3	31.4	34.6	35.8	37.8
9	28.0	30.8	39.7	43.7	45.4	47.8
10	34.6	38.0	49.0	54.0	56.0	59.0
11	41.9	46.0	59.3	65.3	67.8	71.4
12	49.8	54.7	70.6	77.8	80.6	85.0
13	58.5	64.2	82.8	91.3	94.6	99.7
14	67.8	74.5	96.0	105.8	109.8	115.6
15	77.9	85.5	110.3	121.5	126.0	132.8
16	88.6	97.3	125.4	138.2	143.4	151.0
17	100.0	109.8	141.6	156.1	161.8	170.5
18	112.1	123.1	158.8	175.0	181.4	191.2
19	124.9	137.2	176.9	194.9	202.2	213.0
20	138.4	152.0	196.0	216.0	224.0	236.0
21	152.6	167.6	216.1	238.1	247.0	260.2
22	167.5	183.9	237.2	261.4	271.0	285.6
23	183.0	201.0	259.2	285.7	296.2	312.1
24	199.3	218.9	282.2	311.0	322.6	339.8
25	216.3	237.5	306.3	337.5	350.0	368.8
26	233.9	256.9	331.2	365.0	378.6	398.8
27	252.2	277.0	357.2	393.7	408.2	430.1
28	271.3	297.9	384.2	423.4	439.0	462.6
29	291.0	319.6	412.1	454.1	471.0	496.2
30	311.4	342.0	441.0	486.0	504.0	531.0
31	332.5	365.2	470.9	518.9	538.2	567.0
32	354.3	389.1	501.8	553.0	573.4	604.2
33	376.8	413.8	533.6	588.1	609.8	642.5
34	400.0	439.3	566.4	624.2	647.4	682.0
35	423.9	465.5	600.3	661.5	686.0	722.8
36	448.4	492.5	635.0	699.8	725.8	764.6
37	473.7	520.2	670.8	739.3	766.6	807.7
38	499.6	548.7	707.6	779.8	808.6	852.0
39	526.3	578.0	745.3	821.3	851.8	897.4
40	553.6	608.0	784.0	864.0	896.0	944.0

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1960	
Fibre Core KN	Steel Core KN
5.6	5.9
9.9	10.6
15.5	16.5
22.3	23.8
30.4	32.3
39.7	42.2
50.2	53.5
62.0	66.0
75.0	79.9
89.3	95.0
104.8	111.5
121.5	129.4
139.5	148.5
158.7	169.0
179.2	190.7
200.9	213.8
223.8	238.3
248.0	264.0
273.4	291.1
300.1	319.4
328.0	349.1
357.1	380.2
387.5	412.5
419.1	446.2
452.0	481.1
486.1	517.4
521.4	555.1
558.0	594.0
595.8	634.3
634.9	675.8
675.2	718.7
716.7	763.0
759.5	808.5
803.5	855.4
848.8	903.5
895.3	953.0
943.0	1003.9
992.0	1056.0