

Synthetic Ropes Tensile Strength



Rope Strand	Diameter (mm)	Circle (inches)	Nylon		Polypropylene Multi-filament		Polypropylene Mono-filament		Polyethylene	
			Approx Weight Kg/100m	Breaking Load (KN)	Approx Weight Kg/100m	Breaking Load (KN)	Approx Weight Kg/100m	Breaking Load (KN)	Approx Weight Kg/100m	Breaking Load (KN)
3 STRAND	4	1/2	1.45	2.7	1.36	1.98	1	1.8	1.14	1.6
	6	3/4	2.18	6	2.09	4.98	1.77	4.96	1.91	3.45
	8	1	3.86	11	3.55	9.33	3.14	8.66	3.27	6.05
	10	1-1/4	6.05	16	5.09	13.95	4.91	12.9	5.18	9.4
	12	1-1/2	9.41	24	7.64	19.65	7.09	18.3	7.5	13.3
	14	1-3/4	12.77	32.8	10.23	26.55	9.64	24.1	10.18	18
	16	2	16.59	41	13.64	33.6	12.59	30.2	13.14	24.2
	18	2-1/4	21	51	18.18	42.25	15.91	38.5	16.41	29.9
	20	2-1/2	26	63	23.27	51.2	19.68	46.4	20.5	36.9
	22	2-3/4	31.5	75	28.09	61.55	23.82	56.1	24.91	43.8
	24	3	37.41	88	33.36	72.3	28.32	65.6	29.64	52.6
	26	3-1/4	44	102.5	39.09	84.15	33.27	76.3	34.91	60.3
	28	3-1/2	51	117	45.23	96	38.55	87	40.45	69.6
	30	3-3/4	58.5	133	47.9	109.25	44.27	99	46.5	79.3
	32	4	66.5	149	54.09	122.5	50.45	111	53.14	90.3
	34	4-1/4	75.14	167	60.68	137.8	56.82	125	59.32	101.65
	35	4-3/8	75.45	176	64.32	145.5	60.23	132	63.73	107.32
36	4-1/2	84	185.8	70.45	153.3	63.64	139	67.23	113	
38	4-3/4	94.05	205.4	79.55	169	70.91	153.5	74.41	124.35	
8 STRAND	40	5	98.18	223	88.64	185	75.91	168	87.27	136
	45	5-1/2	126.36	278	109.09	230	96.36	210	99.09	166
	48	6	145	307	129.31	254	109.35	235	111.31	186
	50	6-1/4	153.64	337	136.36	278.5	118.64	253	122.27	203
	56	7	191.8	403	176.77	332	148.11	301	155.82	242
	60	7-1/2	221.36	474	190.91	391.5	170.91	356	176.36	284
	64	8	251.82	535	222.73	442	194.55	402	200.91	322
	65	8-1/8	260	548	234.09	453.5	200.91	414	206.82	328
	70	8-1/2	301.36	628	250	522	232.73	479	240	375
	75	9-1/4	345.91	711	281.81	594.5	267.27	548	275.45	424
	80	10	393.64	798	318.18	669.5	304.09	621	313.64	475
	85	10-1/2	417.27	888	365.91	749	343.18	698	354.09	527
	90	11-1/8	498.18	981	411.36	831	384.55	779	396.82	582
95	12	555	1078	455.45	917	428.64	863	442.27	638	
100	12-3/8	615	1177	500	1005	475	951	462.73	704	

(Remark: All Weights & Dimensions are approximate, the measurements may vary between different factories)

