

# Wire Rigging

## 1x19 Stainless Steel Wire (Standard Rigging) Dimensions & Part Numbers

PART NUMBER	NOMINAL DIAMETER		MINIMUM BREAKING LOAD		APPROXIMATE WEIGHT		STRETCH	
	mm	in	kg	lbs	kg/100m	lb/100ft	mm/mm/1000kg	in/in/1000lb
S19-M02	2	-	320	705	1.95	1.31	0.028961	0.0131642
S19-M025	2.5	3/32	500	1100	3.05	2.05	0.018535	0.0084251
S19-M03	3	-	720	1590	4.49	3.02	0.012872	0.0058510
S19-04	-	1/8	720	1590	4.49	3.02	0.012872	0.0058510
S19-M04	4	5/32	1280	2820	7.81	5.25	0.007378	0.0033537
S19-06	-	3/16	1800	3970	10.6	7.12	0.005080	0.0023091
S19-M05	5	-	2000	4400	12.2	8.20	0.004627	0.0021032
S19-07	-	7/32	2470	5440	15.1	10.1	0.003744	0.0017018
S19-M06	6	-	2880	6350	17.6	11.8	0.003224	0.0014655
S19-08	-	1/4	3220	7100	19.4	13.0	0.002873	0.0013059
S19-M07	7	9/32	3550	7800	23.9	16.1	0.002274	0.0010336
S19-M08	8	5/16	4640	10300	31.2	21.0	0.001833	0.0008332
S19-12	-	3/8	6580	14500	43.2	29.0	0.001277	0.0005805
S19-M10	10	-	7250	16000	48.8	32.8	0.001157	0.0005259
S19-M11	11	7/16	8770	19340	59.1	39.7	0.000936	0.0004255
S19-M12	12	-	10400	22930	70.3	47.2	0.000806	0.0003664
S19-16	-	1/2	11650	25680	79.3	53.3	0.000718	0.0003264
S19-M14	14	9/16	14180	31260	95.7	64.3	0.000566	0.0002573
S19-M16	16	5/8	18560	40920	125	84.0	0.000460	0.0002091
S19-M19	19	3/4	21620	47660	176	118	0.000319	0.0001450
S19-M22	22	7/8	29070	64090	236	159	0.000235	0.0001068
S19-M26	26	1	40600	89500	330	222	0.000180	0.0000818
S19-M28	28	1 1/8	52600	115960	383	257	0.000142	0.0000645
S19-M30	30	1 3/16	58800	129600	443	298	0.000127	0.0000577
S19-M32	32	1 1/4	62800	138450	500	336	0.000115	0.0000523

## Dyform Wire

PART NUMBER	NOMINAL DIAMETER mm	CONSTRUCTION	MINIMUM BREAKING LOAD		APPROXIMATE WEIGHT		STRETCH	
			kg	lbs	kg/100m	lb/100ft	mm/mm/1000kg	in/in/1000lb
SD07-M025	2.5	1 x 7	690	1521	3.40	2.28	0.014523	0.0066014
SD07-M03	3	1 x 7	1000	2205	4.90	3.29	0.010085	0.0045841
SD07-M035	3.5	1 x 7	1350	2976	6.70	4.50	0.007410	0.0033682
SD07-M04	4	1 x 7	1780	3924	8.80	5.91	0.005673	0.0025787
SD19-M05	5	1 x 19	2440	5379	13.50	9.07	0.003728	0.0016946
SD19-M06	6	1 x 19	3550	7826	19.40	13.04	0.002589	0.0011768
SD19-M07	7	1 x 19	4910	10825	26.00	17.47	0.001902	0.0008646
SD19-M08	8	1 x 19	6150	13558	34.50	23.18	0.001456	0.0006618
SD19-M10	10	1 x 19	9770	21539	54.00	36.29	0.000932	0.0004236
SD19-M12	12	1 x 19	14400	31747	80.70	54.23	0.000647	0.0002941
SD25-M14	14	1 x 25	19300	42549	115.00	77.28	0.000476	0.0002164
SD25-M16	16	1 x 25	25600	56438	147.00	98.78	0.000364	0.0001655
SD31-M19	19	1 x 31	32000	70548	207.00	139.10	0.000258	0.0001173

# Fiber Rigging

## PBO Fiber Cable

SIZE	COVER DIAMETER		MINIMUM BREAKING STRENGTH		WEIGHT		STRETCH EQUIVALENT	
	mm	in	kg	lbs	kg/m	lb/ft	N-50 Rod	1x19 Wire
5.3T	8.0	0.315	5,300	11,700	0.050	0.034	-8	7mm, 9/32
8.7T	10.0	0.394	8,700	19,200	0.076	0.051	-12	8mm, 5/16
12.4T	11.8	0.465	12,400	27,300	0.112	0.075	-17	11mm, 7/16
16T	13.1	0.516	16,000	35,300	0.135	0.091	-22	12mm
21T	15.0	0.591	21,000	46,300	0.176	0.118	-30	14mm, 9/16
27T	16.8	0.661	27,000	59,500	0.224	0.151	-40	16mm, 5/8
35T	19.2	0.756	35,000	77,200	0.285	0.192	-48	19mm, 3/4
45T	22.0	0.866	45,000	99,200	0.376	0.253	-60	22mm, 7/8
57T	23.6	0.929	57,000	125,700	0.471	0.317	-76	22mm, 7/8
71T	26.2	1.031	71,000	156,600	0.577	0.388	-91	26mm, 1
88T	28.7	1.130	88,000	194,000	0.693	0.466	-115	28mm, 1-1/8
110T	31.8	1.252	110,000	242,600	0.852	0.573	-150	32mm, 1-1/4

**Aramid Fiber Cable**

SIZE	COVER DIAMETER		MINIMUM BREAKING STRENGTH		WEIGHT		STRETCH EQUIVALENT	
	mm	in	kg	lbs	kg/m	lb/ft	N-50 Rod	1x19 Wire
3T	8.0	0.315	3,000	6,600	0.027	0.018	na	3/16
3.8T	8.5	0.335	3,800	8,400	0.055	0.037	-4	5mm
5T	10.0	0.394	5,000	11,000	0.075	0.050	-6	6mm
7T	12.0	0.472	7,000	15,400	0.107	0.072	-8	7mm, 9/32
9T	13.1	0.516	9,000	19,800	0.127	0.085	-10	8mm, 5/16
12T	15.0	0.591	12,000	26,500	0.166	0.112	-12	3/8
15T	16.8	0.661	15,000	33,100	0.209	0.140	-17	10mm
20T	19.1	0.752	20,000	44,100	0.271	0.182	-22	12mm
25T	22.0	0.866	25,000	55,100	0.359	0.241	-30	14mm, 9/16
31T	25.0	0.984	31,000	68,400	0.465	0.313	-40	16mm, 5/8
43T	28.7	1.130	43,000	94,800	0.611	0.411	-48	19mm, 3/4
54T	32.3	1.272	54,000	119,100	0.775	0.521	-60	22mm, 7/8
75T	39.9	1.571	75,000	165,400	1.183	0.795	-91	26mm, 1
90T	42.6	1.677	90,000	198,500	1.347	0.905	-115	28mm, 1-1/8
150T	56.6	2.228	150,000	330,800	2.310	1.553	-150	32mm, 1-1/4
300T	77.2	3.039	300,000	661,500	4.240	2.850	-320	-

**Rod Rigging**

**Nitronic 50 Rod**

ROD SIZE	PART NUMBER	DIAMETER			MINIMUM BREAKING STRENGTH		WEIGHT		STRETCH	
		NOMINAL		+/-	kg	lbs	kg/m	lb/ft	mm/mm/1000kg	in/in/1000lb
		mm	in	in						

**Nitronic 50 Coil (1)**

-4	R505-004	4.37	0.172	0.001	2,130	4,700	0.118	0.079	0.004	0.002
-6	R505-006	5.03	0.198	0.001	2,860	6,300	0.156	0.105	0.003	0.001
-8	R505-008	5.72	0.225	0.001	3,720	8,200	0.202	0.136	0.002	0.001
-10	R505-010	6.35	0.250	0.001	4,670	10,300	0.249	0.167	0.002	0.001
-12	R505-012	7.14	0.281	0.001	5,670	12,500	0.314	0.211	0.001	0.001
-15	R505-015	7.52	0.296	0.001	6,460	14,250	0.349	0.235	0.001	0.001
-17	R505-017	8.38	0.330	0.001	7,940	17,500	0.434	0.291	0.001	0.000
-22	R505-022	9.53	0.375	0.001	10,200	22,500	0.560	0.376	0.001	0.000
-30	R505-030	11.10	0.437	0.001	13,600	30,000	0.761	0.511	0.001	0.000
-40	R505-040	12.70	0.500	0.002	17,200	38,000	0.996	0.669	0.000	0.000
-48	R505-048	14.27	0.562	0.002	21,800	48,000	1.258	0.845	0.000	0.000
-60	R505-060	16.76	0.660	0.002	27,200	60,000	1.735	1.166	0.000	0.000
-76	R508-076	17.91	0.705	0.002	34,500	76,000	1.980	1.330	0.000	0.000

**Nitronic 50 Bar (Gamma) (2)**

-76	R508-P-076	17.91	0.705	0.002	34,500	76,000	1.980	1.330	0.000	0.000
-91	R508-P-091	19.51	0.768	0.002	40,800	90,000	2.349	1.579	0.000	0.000
-115	R508-P-115	22.23	0.875	0.002	52,200	115,000	3.049	2.049	0.000	0.000
-150	R508-P-150	25.40	1.000	0.002	68,000	150,000	3.983	2.677	0.000	0.000
-170	R508-P-170	27.08	1.066	0.002	77,100	170,000	4.526	3.042	0.000	0.000
-195	R508-P-195	28.58	1.125	0.002	86,200	190,000	5.041	3.388	0.000	0.000
-220	R508-P-220	30.25	1.191	0.002	98,400	217,000	5.650	3.797	0.000	0.000
-260	R508-P-260	33.35	1.313	0.002	118,000	260,000	6.866	4.614	0.000	0.000
-320	R508-P-320	38.10	1.500	0.002	145,000	320,000	8.961	6.022	0.000	0.000
-400	R508-P-400	44.45	1.750	0.002	181,000	400,000	12.197	8.197	0.000	0.000
-540	R508-P-540	50.80	2.000	0.002	245,000	540,000	15.933	10.707	0.000	0.000
-640	R508-P-640	57.15	2.250	0.002	291,000	640,000	20.254	13.598	0.000	0.000

1. Rod sizes up through-91 are available in coil form or straightened in any length.
2. Standard sizes available up to 40ft. Contact Navtec for longer lengths.
3. Large sizes, especially -115 and above may be in stock in higher strengths than listed. Contact Navtec for details.