

Single layer Wire Rope Data Tables

6x7+FC, 6x7+IWR

Rope Dia (mm)	Approx Weight Kg/100m			Nominal Tensile Strength (MPa)										
				1570		1670		1770		1870		1960		
	Minimum Breaking Force (KN)													
	Natural fiber core	Synth fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	
8	22.5	22.0	24.8	33.4	36.1	35.5	38.4	37.6	40.7	39.7	43.0	41.6	54.0	
9	28.4	27.9	31.3	42.2	45.7	44.9	48.6	47.6	51.5	50.3	54.4	52.7	57.0	
10	35.1	34.4	38.7	52.1	56.4	55.4	60.0	58.8	63.5	62.1	67.1	65.1	70.4	
11	42.5	41.6	46.8	63.1	68.2	67.1	72.5	71.1	76.9	75.1	81.2	78.7	85.1	
12	50.5	49.5	55.7	75.1	81.2	79.8	86.3	84.6	91.5	89.4	96.7	93.1	101	
13	59.3	58.1	65.4	88.1	95.3	93.7	101	99.3	107	105	113	110	119	
14	68.8	67.4	75.9	102	110	109	118	115	125	122	132	128	138	
16	89.9	88.1	99.1	133	144	142	153	150	163	159	172	167	180	
18	114	111	125	169	183	180	194	190	206	201	218	211	228	
20	140	138	155	208	225	222	240	235	254	248	269	260	281	
22	170	166	187	252	273	268	290	284	308	300	325	315	341	
24	202	198	223	300	325	319	345	338	366	358	387	375	405	
26	237	233	262	352	381	375	405	397	430	420	454	440	476	
28	275	270	303	409	442	435	470	461	498	487	526	510	552	
30	316	310	348	469	507	499	540	529	572	559	604	586	633	
32	359	352	396	534	577	568	614	602	651	636	687	666	721	
34	406	398	447	603	652	641	693	679	735	718	776	752	813	
36	455	446	502	676	730	719	777	762	824	805	870	843	912	

6x19S+FC, 6x19S+IWR, 6x19W+FC, 6x19W+IWR

Rope Dia (mm)	Approx Weight Kg/100m			Nominal Tensile Strength (MPa)										
				1570		1670		1770		1870		1960		
	Minimum Breaking Force (KN)													
	Natural fiber core	Synth fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	
12	53.1	51.8	58.4	74.6	80.5	79.4	85.6	84.1	90.7	88.9	95.9	93.1	100	
13	62.3	60.8	68.5	87.6	94.5	93.1	100	98.7	106	104	113	109	118	
14	72.2	70.5	79.5	102	110	108	117	114	124	121	130	127	137	
16	94.4	92.1	104	133	143	141	152	150	161	158	170	166	179	
18	119	117	131	168	181	179	193	189	204	200	216	210	226	
20	147	144	162	207	224	220	238	234	252	247	266	259	279	
22	178	174	196	251	271	267	288	283	304	299	322	313	338	
24	212	207	234	298	322	317	342	336	363	355	383	373	42	
26	249	243	274	350	378	373	402	395	426	417	450	437	472	
28	289	282	318	406	438	432	466	458	494	484	522	507	547	
30	332	324	365	466	503	496	535	526	567	555	599	582	628	
32	377	369	415	531	572	564	609	598	645	632	682	662	725	
34	426	416	469	599	646	637	687	675	728	713	770	748	807	
36	478	466	525	671	724	714	770	757	817	800	863	838	904	
38	532	520	585	748	807	796	858	843	910	891	961	934	1010	
40	590	576	649	829	894	882	951	935	1010	987	1070	1030	1120	

**6x25Fi+FC, 6x25Fi+IWR, 6x31WS+FC, 6x31WS+IWR, 6x36WS+FC,
6x36WS+IWR, 6x41WS+FC, 6x41W+IWR**

Rope Dia (mm)	Approx Weight Kg/100m			Nominal Tensile Strength (MPa)									
				1570		1670		1770		1870		1960	
				Minimum Breaking Load (KN)									
	Natural fiber core	Synth fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core	Fiber core	Steel core
12	54.7	53.4	60.2	74.6	80.5	79.4	85.6	84.1	90.7	88.9	95.9	93.1	100
13	63.2	62.7	70.6	87.6	94.5	93.1	100	98.7	106	104	113	109	118
14	74.5	72.7	81.9	102	110	108	117	114	124	121	130	127	137
16	97.3	95.0	107	133	143	141	152	150	161	158	170	166	179
18	123	120	135	168	181	179	193	189	204	200	216	210	226
20	152	148	167	207	224	220	238	234	252	247	266	259	279
22	184	180	202	251	271	267	288	283	305	299	322	313	338
24	219	214	241	298	322	317	342	336	363	355	383	373	402
26	257	251	283	350	378	373	402	395	426	417	450	437	472
28	298	291	328	406	438	432	466	458	494	484	522	507	547
30	342	334	376	466	503	496	535	526	567	555	599	582	682
32	389	380	428	531	572	564	609	598	645	632	682	662	715
34	439	429	483	599	646	637	687	675	728	713	770	748	807
36	492	481	542	671	724	714	770	757	817	800	863	838	904
38	549	536	604	748	807	796	858	843	910	891	961	934	1010
40	608	594	669	829	894	883	951	935	1010	987	1070	1030	1120
42	670	654	737	914	986	972	1050	1030	1110	1090	1170	1140	1230
44	736	718	809	1000	1080	1070	1150	1130	1220	1190	1290	1250	1350
46	804	785	884	1100	1180	1170	1260	1240	1330	1310	1410	1370	1480
48	876	855	963	1190	1290	1270	1370	1350	1450	1420	1530	1490	1610
50	950	928	1040	1300	1400	1380	1490	1460	1580	1540	1660	1620	1740
52	1030	1000	1130	1400	1510	1490	1610	1580	1700	1670	1800	1750	1890
54	1110	1080	1220	1510	1630	1610	1730	1700	1840	1800	1940	1890	2030
56	1190	1160	1310	1620	1750	1730	1860	1830	1980	1940	2090	2030	2190
58	1280	1250	1410	1740	1880	1850	2000	1960	2120	2080	2240	2180	2350
60	1370	1340	1500	1870	2010	1980	2140	2100	2270	2220	2400	2330	2500
62	1460	1430	1610	2000	2150	2120	2290	2250	2420	2370	2560	2490	2680
64	1560	1520	1710	2120	2290	2260	2440	2390	2580	2530	2730	2650	2860