

STEEL WIRE ROPES



POWERFUL
MACHINERY 普丰机械



Reliable

Competitive

Professional

Qingdao Powerful Machinery Co., Ltd. is located in Qingdao, one of the largest port cities in China. As China's leading manufacturer of rigging, lifting, and material handling applications, Powerful Machinery delivers a diverse portfolio of products engineered to exceed the toughest demands of any industry, construction, cargo handling, towing, marine, and transportation.

Our products include welded chains, G80 and G100 lifting chains & accessories, hooks, shackles, hoist rings, master links, chain slings, turnbuckles, snatch blocks, wire rope & fittings and a host of other custom-engineered solutions: the most comprehensive portfolio in the industry.

Powerful Machinery has 20 years of export experience, with customers in dozens of countries around the world. Our products are exported to Europe, America, Southeast Asia, the Middle East, Australia, and many other regions.

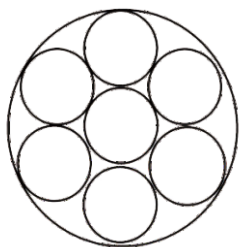
At Powerful Machinery, We have a team of professionals working together to provide our customers with the best products and services. When you choose Powerful Machinery, you are guaranteed more than superior products—you are guaranteed the quality assurance that comes with a customer service team committed to exceeding end-user expectations.

At Powerful Machinery, it's not just about lifting products; it's about working with a trusted partner who is invested in your success.

POWERFUL
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COMPANY PROFILE

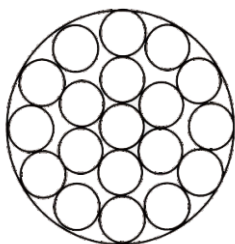
STEEL STRAND (UNGALVANIZED AND GALVANIZED)



1x7

DIAMETER OF STEEL WIRE (MM)	DIAMETER OF STEEL STRAND (MM)	CROSS SECTION OF STEEL STRAND (MM)	GRADE OF NOMINAL STRENGTH (MPA)					REFERENCE WEIGHT
			1370	1470	1570	1670	1770	
			MINIMUM BREAKING LOAD (KN)					(KG/100M)
0.13	0.4	0.093	0.117	0.125	0.134	0.143	0.151	0.082
0.30	0.9	0.495	0.623	0.669	0.715	0.76	0.806	0.411
1.00	3.0	5.50	6.93	7.43	7.94	8.45	8.96	4.54
1.20	3.6	7.92	9.98	10.71	11.44	12.16	12.90	6.59
1.40	4.2	10.78	13.59	14.58	15.57	16.56	17.55	8.97
1.60	4.8	14.07	17.73	19.03	20.32	21.62	22.91	11.71
1.80	5.4	17.81	22.45	24.09	25.72	27.36	29.00	14.83
2.00	6.0	21.99	27.72	29.74	31.76	33.78	35.80	18.50
2.30	6.9	29.07	36.64	39.31	41.99	44.66	47.34	24.20
2.60	7.8	37.16	46.82	50.24	53.66	57.08	60.50	30.93
3.00	9.0	49.48	62.34	66.90	71.44	75.99	80.54	41.19
3.20	9.6	56.30	70.92	76.10	81.30	86.45	91.63	46.87
4.23	12.7	98.33	123.94	132.98	142.03	151.07	160.12	81.95
5.00	15.0	137.38	173.15	185.80	198.43	211.07	223.71	114.30
5.33	16.0	156.11	196.76	211.12	225.49	239.85	254.21	130.05

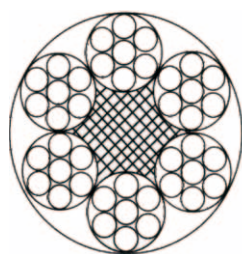
STEEL STRAND (UNGALVANIZED AND GALVANIZED)



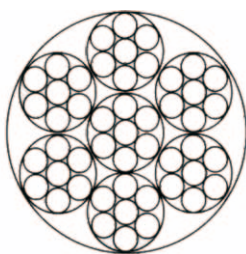
1x19

DIAMETER OF STEEL WIRE (MM)	DIAMETER OF STEEL STRAND (MM)	CROSS SECTION OF STEEL STRAND (MM)	GRADE OF NOMINAL STRENGTH (MPA)					REFERENCE WEIGHT
			1370	1470	1570	1670	1770	
			MINIMUM BREAKING LOAD (KN)					(KG/100M)
0.12	0.6	0.215	0.265	0.284	0.304	0.323	0.342	0.178
0.80	4.0	9.55	11.775	12.63	13.5	14.35	15.21	7.95
1.00	5.0	14.92	18.40	19.74	21.00	22.42	23.67	12.42
1.60	8.0	38.20	47.10	50.54	53.90	57.41	60.85	31.80
1.80	9.0	48.35	59.60	63.94	68.30	72.64	76.99	40.25
2.00	10.0	59.69	73.60	78.93	84.30	89.67	95.04	49.69
2.50	12.5	93.27	114.94	123.33	131.00	140.11	148.50	77.64
3.00	15.0	134.30	166.00	178.00	190.00	202.00	214.00	118.80
3.50	17.5	182.80	225.00	242.00	258.00	275.00	291.00	152.17
4.00	20.0	238.76	294.00	316.00	337.00	359.00	380.00	198.76

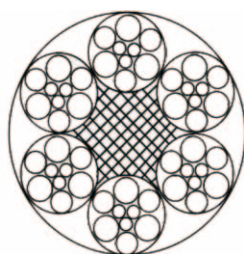
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



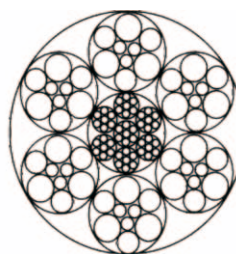
6x7+FC



6x7+IWS



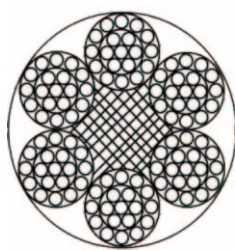
6x9W+FC



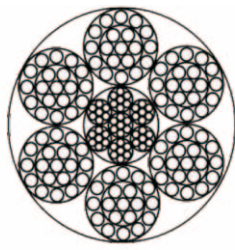
6x9W+IWR

NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
1.2	0.505	0.495	0.577	0.75	0.81	0.8	0.86	0.84	0.91	0.89	0.96	0.94	1
2	1.4	1.38	1.55	2.08	2.25	2.21	2.39	2.35	2.54	2.48	2.68	2.6	2.81
3	3.16	3.1	3.48	4.69	5.07	4.98	5.39	5.28	5.71	5.58	6.04	5.85	6.33
4	5.62	5.5	6.19	8.33	9.01	8.87	9.59	9.4	10.1	9.93	10.7	10.4	11.2
5	8.77	8.6	9.68	13	14	13.8	14.9	14.6	15.8	15.5	16.7	16.2	17.6
6	12.6	12.4	13.9	18.7	20.2	19.9	21.5	21.1	22.8	22.3	24.1	23.4	25.3
7	17.2	16.9	19	25.5	27.6	27.1	29.3	28.7	31.1	30.4	32.8	31.8	34.4
8	22.5	22	24.8	33.3	36	35.4	38.3	37.6	40.6	39.7	42.9	41.6	45
9	28.4	27.9	31.3	42.2	45.6	44.9	48.5	47.5	51.4	50.2	54.3	52.7	56.9
10	35.1	34.4	38.7	52.1	56.3	55.4	59.9	58.7	63.5	62	67.1	65	70.3
11	42.5	41.6	46.8	63	68.1	67	72.5	71.1	76.8	75.1	81.2	78.7	85.1
12	50.5	49.5	55.7	75	81.1	79.8	86.3	84.6	91.5	89.4	96.6	93.7	101
13	59.3	58.1	65.4	88	95.2	93.7	101	99.3	107	104	113	110	118
14	68.8	67.4	75.9	102	110	108	117	115	124	121	131	127	138
16	89.9	88.1	99.1	133	144	141	153	150	162	158	171	166	180
18	114	111	125	168	182	179	194	190	205	201	217	210	228
20	140	138	155	208	225	221	239	235	254	248	268	260	281
22	170	166	187	252	272	268	290	284	307	300	324	315	340
24	202	198	223	300	324	319	345	338	366	357	386	374	405
26	237	233	262	352	381	371	405	397	429	419	453	440	475
28	275	270	303	408	441	434	470	460	498	486	526	510	551
30	316	310	348	469	507	498	539	528	571	558	604	585	633
32	359	352	396	533	577	567	613	601	650	635	687	666	720
34	406	398	447	602	651	640	693	679	734	717	776	752	813
36	455	446	502	675	730	718	776	761	823	804	870	843	912
38	507	497	559	752	813	800	865	848	917	896	969	940	1016
40	561	550	619	833	901	887	959	940	1016	993	1074	1041	1125
42	619	606	682	919	994	978	1057	1036	1120	1095	1184	1147	1241
44	679	666	749	1009	1091	1073	1160	1137	1230	1202	1300	1260	1362
46	742	728	818	1102	1192	1173	1268	1243	1344	1313	1420	1377	1488
48	808	792	891	1200	1298	1277	1381	1354	1464	1430	1546	1499	1621

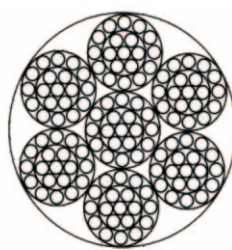
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



6x19+FC



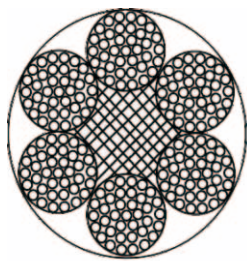
6x19+IWR



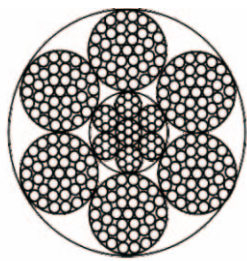
6x19+IWS

NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
3	3.11	3.03	3.43	4.34	4.69	4.61	4.99	4.89	5.29	5.17	5.59	5.41	5.85
4	5.54	5.39	6.1	7.71	8.34	8.2	8.87	8.69	9.4	9.19	9.93	9.62	10.4
5	8.65	8.43	9.53	12	13	12.8	13.9	13.6	14.7	14.4	15.5	15	16.2
6	12.5	12.1	13.7	17.4	18.8	18.5	20	19.6	21.2	20.7	22.4	21.6	23.4
7	17	16.5	18.7	23.6	25.5	25.1	27.2	26.6	28.8	28.1	30.4	29.4	31.8
8	22.1	21.6	24.4	30.8	33.4	32.8	35.5	34.8	37.6	36.7	39.7	38.5	41.6
9	28	27.3	30.9	39	42.2	41.5	44.9	44	47.6	46.5	50.3	48.7	52.7
10	34.6	33.7	38.1	48.2	52.1	51.3	55.4	54.3	58.8	57.4	62.1	60	65
11	41.9	40.8	46.1	58.3	63.1	62	67.1	65.8	71.1	69.5	75.1	72.8	78.7
12	49.8	48.5	54.9	69.4	75.1	73.8	79.8	78.2	84.6	82.7	89.4	86.6	93.7
13	58.5	57	64.4	81.5	88.1	86.6	93.7	91.8	99.3	97	105	101	110
14	67.8	66.1	74.7	94.5	102	100	109	107	115	113	122	118	127
16	88.6	86.3	97.5	123	133	131	142	139	150	147	159	154	166
18	112	109	123	156	169	166	180	176	190	186	201	195	210
20	138	135	152	193	208	205	222	217	235	230	248	240	260
22	167	163	184	233	252	248	268	263	284	278	300	291	315
24	199	194	219	278	300	295	319	313	338	331	358	346	374
26	234	228	258	326	352	347	375	367	397	388	420	406	440
28	271	264	299	378	409	402	435	426	461	450	487	471	510
30	311	303	343	434	469	461	499	489	529	517	559	541	585
32	354	345	390	494	534	525	568	556	602	588	636	616	666
34	400	390	440	557	603	593	641	628	679	664	718	695	752
36	448	437	494	625	676	664	719	704	762	744	805	780	843
38	500	487	550	696	753	740	801	785	849	829	896	868	940
40	554	539	610	771	834	820	887	869	940	919	993	962	1041
42	610	594	672	850	919	904	978	959	1040	1010	1100	1061	1147
44	670	652	738	933	1010	993	1070	1050	1140	1110	1200	1164	1260
46	732	713	806	1020	1100	1080	1170	1150	1240	1210	1310	1273	1376

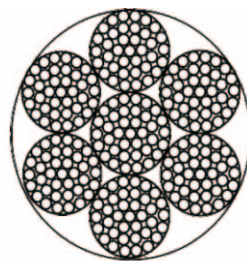
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



6x37+FC



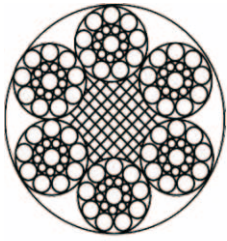
6x37+IWR



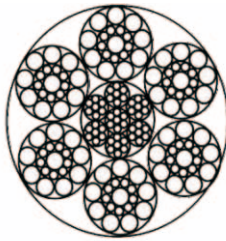
6x37+IWS

NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
	MINIMUM BREAKING LOAD OF ROPE												
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
5	8.65	8.43	9.53	11.6	12.5	12.3	13.3	13.1	14.1	13.8	14.9	14.4	15.6
6	12.5	12.1	13.7	16.7	18	17.7	19.2	18.8	20.3	19.9	21.5	20.8	22.5
7	17	16.5	18.7	22.7	24.5	24.1	26.1	25.6	27.7	27	29.2	28.3	30.6
8	22.1	21.6	24.4	29.6	32.1	31.5	34.1	33.4	36.1	35.3	38.2	37	40
9	28	27.3	30.9	37.5	40.6	39.9	43.2	42.3	45.7	44.7	48.3	46.8	50.6
10	34.6	33.7	38.1	46.3	50.1	49.3	53.3	52.2	56.5	55.2	59.7	57.8	62.5
11	41.9	40.8	46.1	56	60.6	59.6	64.5	63.2	68.3	66.7	72.2	69.9	75.6
12	49.8	48.5	54.9	66.7	72.1	70.9	76.7	75.2	81.3	79.4	85.9	83.2	90
13	58.5	57	64.4	78.3	84.6	83.3	90	88.2	95.4	93.2	101	97.7	105
14	67.8	66.1	74.7	90.8	98.2	96.6	104	102	111	108	117	113	122
16	88.6	86.3	97.5	119	128	126	136	134	145	141	153	148	160
18	112	109	123	150	162	160	173	169	183	179	193	187	202
20	138	135	152	185	200	197	213	209	226	221	239	231	250
22	167	163	184	224	242	238	258	253	273	267	289	279	302
24	199	194	219	267	288	284	307	301	325	318	344	333	360
26	234	228	258	313	339	333	360	353	382	373	403	390	422
28	271	264	299	363	393	386	418	409	443	432	468	453	490
30	311	303	343	417	451	443	479	470	508	496	537	520	562
32	354	345	390	474	513	504	546	535	578	565	611	592	640
34	400	390	440	535	579	570	616	604	653	638	690	668	722
36	448	437	494	600	649	638	690	677	732	715	773	749	810
38	500	487	550	669	723	711	769	754	815	797	861	834	902
40	554	539	610	741	801	788	852	835	903	883	954	925	1000
42	610	594	672	817	883	869	940	921	996	973	1050	1020	1102
44	670	652	738	897	970	954	1030	1010	1090	1070	1150	1119	1210
46	732	713	806	980	1060	1040	1130	1100	1190	1170	1260	1223	1323
48	797	776	878	1070	1150	1140	1230	1200	1300	1270	1370	1332	1440
50	865	843	953	1160	1250	1230	1330	1310	1410	1380	1490	1445	1563
52	936	911	1030	1250	1350	1330	1440	1410	1530	1490	1610	1563	1690
54	1010	983	1110	1350	1460	1440	1550	1520	1650	1610	1740	1686	1823
56	1090	1060	1190	1450	1570	1540	1670	1640	1770	1730	1870	1813	1960
58	1160	1130	1280	1560	1680	1660	1790	1760	1900	1860	2010	1945	2103
60	1250	1210	1370	1670	1800	1770	1920	1880	2030	1990	2150	2081	2250

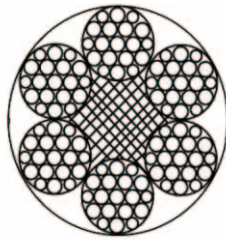
LINE CONTACTED WIRE ROPE (UNGALVANIZED AND GALVANIZED)



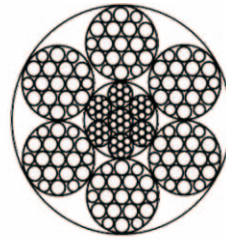
6x19S+FC



6x19S+IWR



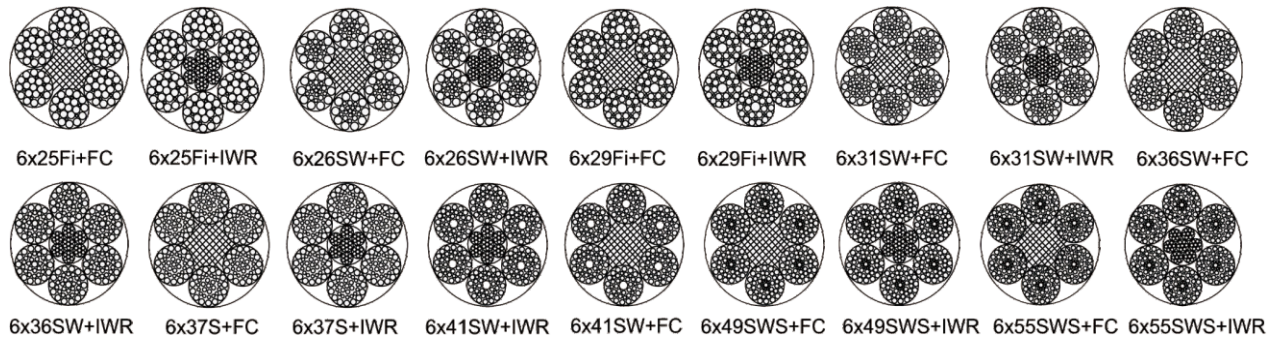
6x19W+FC



6x19W+IWR

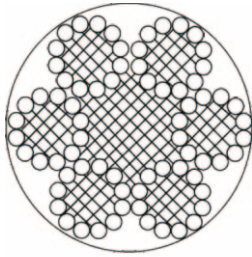
NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
5	9.2	9	10.1	13	14	13.8	14.9	14.6	15.8	15.4	16.6	16.1	17.4
6	13.3	13	14.6	18.7	20.1	19.8	21.4	21	22.7	22.2	24	23.2	25.1
7	18.1	17.6	19.9	25.4	27.4	27	29.1	28.6	30.9	30.2	32.6	31.7	34.2
8	23.6	23	25.9	33.2	35.8	35.3	38	37.4	40.3	39.5	42.6	41.3	44.6
9	29.9	29.1	32.8	42	45.3	44.6	48.2	47.3	51	50	53.9	52.3	56.5
10	36.9	36	40.5	51.8	55.9	55.1	59.5	58.4	63	61.7	66.6	64.6	69.7
11	44.6	43.5	49.1	62.7	67.6	66.7	71.9	70.7	76.2	74.7	80.6	78.2	84.4
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	126	136
16	94.4	92.1	104	133	143	141	152	150	161	158	170	165	178
18	119	117	131	168	181	179	193	189	204	200	216	209	226
20	147	144	162	207	224	220	238	234	252	247	266	258	279
22	178	174	196	251	271	267	288	283	305	299	322	313	337
24	212	207	234	298	322	317	342	336	363	355	383	372	402
26	249	243	274	350	378	373	402	395	426	417	450	437	471
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	627
32	377	369	415	531	572	564	609	598	645	632	682	662	714
34	426	416	469	599	646	637	687	675	728	713	770	747	806
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	933	1007
40	590	576	649	829	894	882	951	935	1010	987	1070	1034	1116

LINE CONTACTED WIRE ROPE (UNGALVANIZED AND GALVANIZED)



NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
6	13.7	13.4	15	18.6	20.1	19.8	21.4	21	22.6	22.2	23.9	23.2	25.1
8	24.3	23.7	26.8	33.2	35.8	35.3	38	37.4	40.3	39.5	42.6	41.4	44.6
9	30.8	30.1	33.9	42	45.3	44.6	48.2	47.3	51	50	53.9	52.3	56.5
10	38	37.1	41.8	51.8	55.9	55.1	59.5	58.4	63	61.7	66.6	64.6	69.7
11	46	44.9	50.6	62.7	67.6	66.7	71.9	70.7	76.2	74.7	80.6	78.2	84.4
12	54.7	53.4	60.2	74.6	80.5	79.4	85.6	84.1	90.7	88.9	95.5	93.1	100
13	64.2	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	126	136
16	97.3	95	107	133	143	141	152	150	161	158	170	165	178
18	123	120	135	168	181	179	193	189	204	200	216	209	226
20	152	148	167	207	224	220	238	234	252	247	266	258	279
22	184	180	202	251	271	267	288	283	305	299	322	313	337
24	219	214	241	298	322	317	342	336	363	355	383	372	402
26	257	251	283	350	378	373	402	395	426	417	450	437	471
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	627
32	389	380	428	531	572	564	609	598	645	632	682	662	714
34	439	429	483	599	646	637	687	675	728	713	770	747	806
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	933	1007
40	608	594	669	829	894	882	951	935	1010	987	1070	1034	1116
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	1252	1350
46	804	785	884	1100	1180	1170	1260	1240	1330	1310	1410	1368	1476
48	876	855	963	1190	1290	1270	1370	1350	1450	1420	1530	1490	1607
50	950	928	1050	1300	1400	1380	1490	1460	1580	1540	1660	1617	1744
52	1030	1000	1130	1400	1510	1490	1610	1580	1700	1670	1800	1748	1886
54	1110	1080	1220	1510	1630	1610	1730	1700	1840	1800	1940	1886	2034
56	1190	1160	1310	1620	1750	1730	1860	1830	1980	1940	2090	2028	2188
58	1280	1250	1410	1740	1880	1850	2000	1960	2120	2080	2240	2175	2347
60	1370	1340	1500	1870	2010	1980	2140	2100	2270	2220	2400	2328	2511

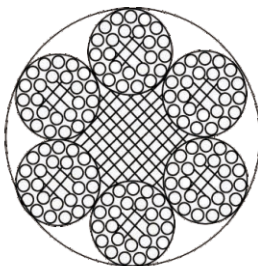
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



6x12+7FC

NOMINAL DIAMETER	APPROX. WEIGHT		NOMINAL TENSILE STRENGTH OF ROPE (MPA)		
			1570	1670	1770
D	NF	SF	MINIMUM BREAKING LOAD OF ROPE		
MM	KG/100M		KN		
5	6.28	5.78	8.2	8.73	9.25
6	9.04	8.32	11.8	12.6	13.3
7	12.3	11.3	16.1	17.1	18.1
8	16.1	14.8	21	22.3	23.7
9	20.3	18.7	26.6	28.3	30
10	25.1	23.1	32.8	34.9	37
11	30.4	28	39.7	42.2	44.8
12	36.1	33.3	47.3	50.3	53.3
14	49.2	45.3	64.3	68.4	72.5
16	64.3	59.1	84	89.4	94.7
18	81.3	74.8	106	113	120
20	100	92.4	131	140	148
22	121	112	159	169	179
24	145	133	189	201	213
26	170	156	222	236	250
28	197	181	257	274	290
30	226	208	295	314	333
32	257	237	336	357	379
34	290	267	379	403	428
36	325	299	425	452	479
38	362	334	474	504	534
40	402	370	525	558	592

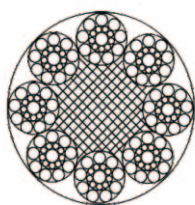
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



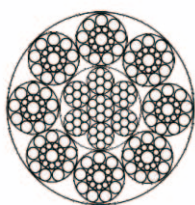
6x24+7FC

NOMINAL DIAMETER	APPROX. WEIGHT		NOMINAL TENSILE STRENGTH OF ROPE (MPA)		
			1570	1670	1770
D	NF	SF	MINIMUM BREAKING LOAD OF ROPE		
MM	KG/100M		KN		
5	7.95	7.6	11	11.7	12.4
8	20.4	19.5	28.1	29.9	31.7
9	25.8	24.6	35.6	37.9	40.1
10	31.8	30.4	44	46.8	49.6
11	38.5	36.8	53.2	56.6	60
12	45.8	43.8	63.3	67.3	71.4
13	53.7	51.4	74.3	79	83.8
14	62.3	59.6	86.2	91.6	97.1
16	81.4	77.8	113	120	127
18	103	98.5	142	152	161
20	127	122	176	187	198
22	154	147	213	226	240
24	183	175	253	269	285
26	215	206	297	316	335
28	249	238	345	367	389
30	286	274	396	421	446
32	326	311	450	479	507
34	368	351	508	541	573
36	412	394	570	606	642
38	459	439	635	675	716
40	509	486	703	748	793

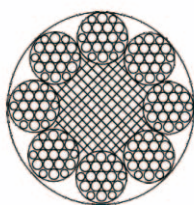
ELEVATOR STEEL WIRE ROPE



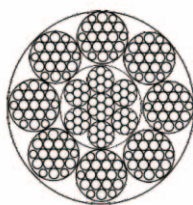
8x19S+FC



8x19S+IWR



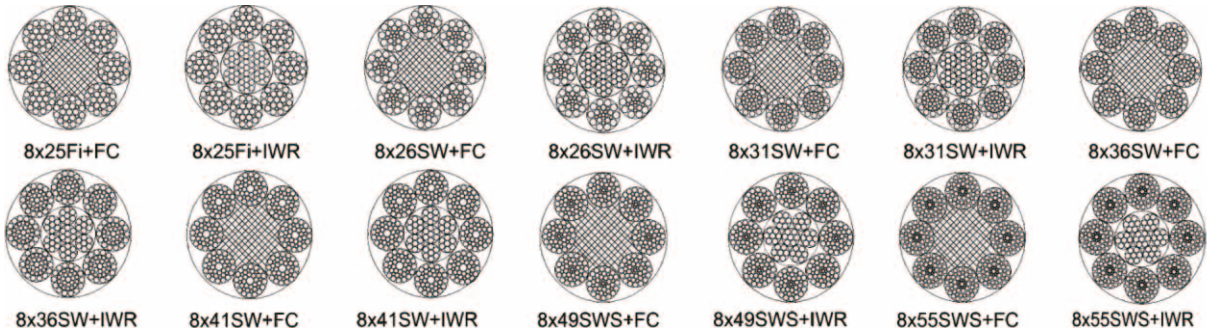
8x19W+FC



8x19W+IWR

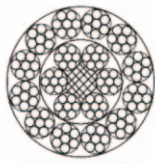
NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)							
				1570		1670		1770		1870	
				MINIMUM BREAKING LOAD OF ROPE							
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN							
8	22.1	21.4	27	29.4	34.7	31.3	36.9	33.1	39.2	35	41.4
9	28	27.1	34.2	37.3	44	39.6	46.7	42	49.6	44.3	52.4
10	34.6	33.4	42.2	46	54.3	48.9	57.7	51.8	61.2	54.7	64.7
11	41.9	40.4	51.1	55.6	65.7	59.2	69.9	62.7	74.1	66.2	78.2
12	49.9	48	60.8	66.2	78.2	70.4	83.2	74.6	88.1	78.8	93.1
13	58.5	56.4	71.3	77.7	91.8	82.6	97.6	87.6	103	92.5	109
14	67.9	65.4	82.7	90.1	106	95.9	113	101	120	107	126
16	88.7	85.4	108	117	139	125	147	132	156	140	165
18	112	108	137	149	176	158	187	168	198	177	209
20	139	133	169	184	217	195	231	207	244	219	258
22	168	162	204	222	262	236	279	251	296	265	313
24	199	192	243	264	312	281	332	298	352	315	372
26	234	226	285	310	367	330	390	350	413	370	437
28	271	262	330	360	425	384	453	406	480	429	507
30	312	300	380	414	488	440	520	466	551	493	582
32	355	342	432	471	556	501	591	531	627	561	662
34	400	386	488	532	628	565	668	600	707	633	747
36	448	432	546	596	704	634	758	672	793	710	838
38	500	482	609	664	784	706	834	748	884	791	934
40	554	534	675	736	869	782	924	830	979	876	1030
42	611	589	744	811	958	863	1010	914	1080	966	1141
44	670	646	817	890	1051	947	1110	1000	1180	1060	1252
46	733	706	893	973	1140	1030	1222	1090	1290	1150	1360
50	865	835	1055	1155	1358	1223	1444	1296	1531	1369	1617

LINE CONTACTED WIRE ROPE (UNGALVANIZED AND GALVANIZED)

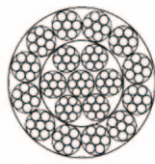


NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
8	22.98	22	27.9	29.3	34.7	31.2	36.9	33.1	39.1	35	41.3	36.7	43.4
9	29	27.8	35.3	37.1	43.9	39.5	46.7	41.9	49.5	44.3	52.3	46.5	54.9
10	35.9	34.4	43.6	45.8	54.2	48.8	57.6	51.7	61.1	54.7	64.6	57.4	67.8
11	43.3	42.6	52.7	55.5	65.5	59	69.7	62.6	73.9	66.2	78.2	69.5	82
12	51.5	49.5	62.8	66	78	70.2	83	74.5	88	78.7	93	82.7	97.6
13	60.4	58.1	73.6	77.5	91.5	82.5	97.4	87.4	103	92.4	109	97	114
14	70.1	67.4	85.4	89.8	106	95.6	113	101	120	107	127	112	133
16	91.6	88	111	117	139	125	148	132	156	140	165	147	173
18	116	111	141	149	176	158	187	168	198	177	209	186	220
20	143	138	174	184	217	195	231	207	224	219	258	230	271
22	173	166	210	222	262	236	279	250	296	265	313	278	328
24	206	198	251	264	312	281	332	298	352	315	372	330	390
26	242	232	295	310	367	330	390	350	413	370	437	388	458
28	280	270	342	360	425	384	453	406	480	429	507	450	531
30	322	310	392	414	488	440	520	446	551	493	582	516	610
32	366	352	446	471	556	501	591	531	627	561	662	588	694
34	414	398	504	532	628	565	668	600	707	633	747	663	784
36	464	446	565	596	704	634	748	672	793	710	838	744	878
38	517	497	630	664	784	706	834	748	884	791	934	829	979
40	572	550	698	736	869	782	924	830	979	876	1035	918	1085
42	631	607	769	811	958	863	1019	914	1080	966	1141	1013	1196
44	693	666	844	890	1051	947	1118	1004	1185	1060	1252	111	1312
46	757	730	922	973	1140	1035	1222	1090	1295	1150	1360	1215	1434
48	825	793	1004	1050	1251	1120	1331	1194	1411	1262	1490	1323	1562
50	895	860	1090	1150	1358	1223	1444	1296	1531	1369	1617	1435	1695
52	968	930	1179	1243	1468	1323	1562	1402	1655	1481	1749	1552	1833
54	1044	1003	1271	1341	1584	1426	1684	1512	1785	1597	1886	1674	1977
56	1122	1079	1367	1442	1703	1534	1812	1626	1920	1718	2029	1800	2126
58	1204	1157	1466	1547	1827	1646	1943	1744	2060	1843	2176	1931	2281
60	1288	1238	1570	1656	1955	1761	2080	1866	2204	1972	2329	2067	2441

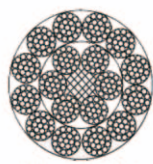
MULTI LAYERS NON-ROTATING STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



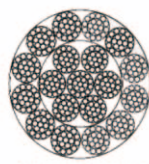
18x7+FC



18x7+IWS

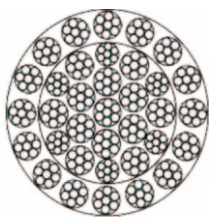


18x19+FC



18x19+IWS

NOMINAL DIAMETER	APPROX. WEIGHT		NOMINAL TENSILE STRENGTH OF ROPE (MPA)									
			1570		1670		1770		1870		1960	
			MINIMUM BREAKING LOAD OF ROPE									
D	FC	IWR/TWS	FC	IWR/TWS	FC	IWR/TWS	FC	IWR/TWS	FC	IWR/TWS	FC	IWR/TWS
MM	KG/100M		KN									
6	14	15.5	17.5	18.5	18.6	19.7	19.8	20.9	20.9	22.1	21.9	23.1
7	19.1	21.1	23.8	25.2	25.4	26.8	26.9	28.4	28.4	30.1	29.8	31.5
8	25	27.5	31.1	33	33.1	35.1	35.1	37.2	37.1	39.3	38.9	41.1
9	31.6	34.8	39.4	41.7	41.9	44.4	44.4	47	47	49.7	49.2	52.1
10	39	43	48.7	51.5	51.8	54.8	54.9	58.1	58	61.3	60.8	64.3
11	47.2	52	58.9	62.3	62.6	66.3	66.4	70.2	70.1	74.2	73.5	77.8
12	56.2	61.9	70.1	74.2	74.5	78.9	79	83.6	83.5	88.3	87.5	92.6
13	65.9	72.7	82.3	87	87.5	92.6	92.7	98.1	98	104	103	109
14	76.4	84.3	95.4	101	101	107	108	114	114	120	119	126
16	99.8	110	125	132	133	140	140	149	148	157	156	165
18	126	139	158	167	168	177	178	188	188	199	197	208
20	156	172	195	206	207	219	219	232	232	245	243	257
22	189	208	236	249	251	265	266	281	281	297	294	311
24	225	248	280	297	298	316	316	334	334	353	350	370
26	264	291	329	348	350	370	371	392	392	415	411	435
28	306	337	382	404	406	429	430	455	454	481	476	504
30	351	387	438	463	466	493	494	523	522	552	547	579
32	399	440	498	527	530	561	562	594	594	628	622	658
34	451	497	563	595	598	633	634	671	670	709	702	743
36	505	557	631	667	671	710	711	752	751	795	787	833
38	563	621	703	744	748	791	792	838	837	886	877	928
40	624	688	779	824	828	876	878	929	928	981	972	1 030



35Wx7

NOMINAL DIAMETER	APPROX. WEIGHT	NOMINAL TENSILE STRENGTH OF ROPE (MPA)				
		1570	1670	1770	1870	1960
		MINIMUM BREAKING LOAD OF ROPE				
D						
MM	KG/100M	KN				
8	29.5	36.1	38.4	40.7	43	45.1
10	46	56.5	60.1	63.7	67.3	70.6
12	66.5	81.4	86.6	91.8	96.9	102
14	90	111	118	125	132	138
16	118	145	154	163	172	181
18	149	183	195	206	218	229
20	184	226	240	255	269	282
22	223	274	291	308	326	342
24	265	326	346	367	388	406
26	311	382	406	431	455	477
28	361	443	471	500	528	553
30	414	509	541	573	606	635
32	471	579	616	652	689	723
34	532	653	695	737	778	816
36	596	732	779	826	872	914
38	664	816	868	920	972	1020
40	736	904	962	1020	1080	1130
42	811	997	1060	1120	1190	1240
44	891	1090	1160	1230	1300	1370
46	973	1196	1272	1348	1424	1493
48	1060	1302	1385	1468	1551	1625



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