



Address: No. 75, Qiaoxi Street, Longxing Town,
Jiangxian County, Shanxi Province, China
TEL: +8603515622795
www.fizurik.com

FIZURIK LTD.

WIRE ROPE PRODUCT MANUAL

OUR LOCATIONS

ONE-STOP INTERNATIONAL MANUFACTURING SERVICES

All for your service needs!

A high-angle, nighttime photograph of a dense urban skyline, likely New York City, featuring numerous illuminated skyscrapers. The image is framed by a large, dark blue triangular graphic element on the right side.

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graph TD; 01((01)) --- 02((02)); 02 --- 03((03)); 03 --- 04((04)); 04 --- 05((05)); 05 --- 06((06)); 06 --- 07((07)); 06 --- 08((08)); 07 --- 08; 08 --- 09((09)); 09 --- 10((10));
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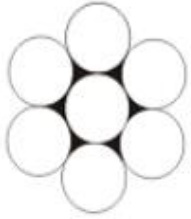
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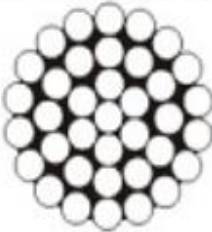
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Steel Strand

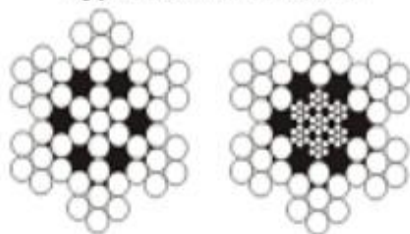
Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		1x3		
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1570 KN		Grade 1670 KN
6.2	16.49	28.63		30.45
6.4	20.09	34.85		37.07
7.5	24.03	41.68		44.34
8.6	31.38	54.45		57.92

Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		1x7	1-6	6 6
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1470 KN		Grade 1570 KN
3	4.33	8.09		8.64
3.6	6.23	11.6		12.4
4.2	8.48	15.9		17.0
4.8	11.1	20.7		22.1
5.4	14.0	26.2		27.9
6	17.3	32.3		34.5
6.9	22.9	42.8		45.7
7.8	29.3	54.7		58.4
8.7	36.4	67.9		72.5
9	39.0	72.8		77.7
10.5	53.0	98.9		106.0
11.4	62.5	117		125
12	69.3	129		138

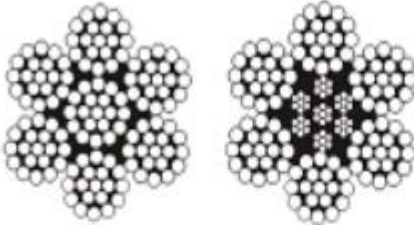
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		1x37	1-6-12-18	36	36
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1470 KN		Grade 1570 KN	
11.2	59.0	109		117	
12.6	74.6	138		148	
14	92.1	171		182	
16.1	122	226		242	
18.2	156	288		308	
20.3	194	359		383	
21	207	385		411	
24.5	282	523		559	
26.6	333	617		659	
28	368	684		730	
29.4	406	754		805	
30.8	446	828		884	

Steel Wire Rope

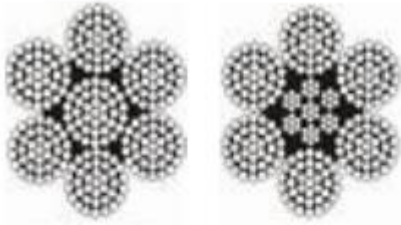
Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		6x7+FC	1-6	36 6
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1570 KN	Grade 1770 KN	
1.5	0.80	1.18	1.33	
1.8	1.16	1.69	1.90	
2	1.43	2.08	2.35	
3	3.22	4.69	5.29	
4	5.72	8.34	9.40	
5	8.94	13.0	14.7	
6	12.9	18.8	21.2	
7	17.5	25.5	28.8	
8	22.9	33.4	37.6	
9	28.9	42.2	47.6	
10	35.7	52.1	58.8	
11	43.2	63.1	71.1	
12	51.5	75.1	84.6	
13	60.4	88.1	99.3	
14	70.1	102	115	
16	91.5	133	150	
18	116	169	190	
20	143	208	235	
22	173	252	284	
24	206	300	338	
26	241	352	397	
28	280	409	461	
30	321	469	529	
32	366	534	602	
34	413	603	679	
36	463	676	762	

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x7+IWSC 6x7+IWRC	1-6 1-6	36 36	6 6
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN	Grade 1770 KN		
1.5	0.88	1.27	1.43		
1.8	1.27	1.83	2.06		
2	1.57	2.25	2.54		
3	3.54	5.07	5.72		
4	6.29	9.02	10.20		
5	9.83	14.1	15.9		
6	14.2	20.3	22.9		
7	19.3	27.6	31.1		
8	25.2	36.1	40.7		
9	31.8	45.7	51.5		
10	39.3	56.4	63.5		
11	47.5	68.2	76.9		
12	56.7	81.2	91.5		
13	66.4	95.3	107		
14	77.1	110	125		
16	101	144	163		
18	128	183	206		
20	157	225	254		
22	190	273	308		
24	226	325	366		
26	266	381	430		
28	308	442	498		
30	354	507	572		
32	402	577	651		
34	454	652	735		
36	509	730	824		

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x19+FC	1-6-12	108	18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
3	3.11	4.34		4.89	
4	5.54	7.71		8.69	
5	8.65	12.00		13.6	
6	12.5	17.40		19.6	
7	17.0	23.60		26.6	
8	22.1	30.8		34.8	
9	28.0	39.0		44.0	
10	34.6	48.2		54.4	
11	41.9	58.3		65.8	
12	49.8	69.4		78.2	
13	58.5	81.5		91.8	
14	67.8	94.5		107	
16	88.6	123.0		139	
18	112	156.0		176	
20	138	193		217	
22	167	233		263	
24	199	278		313	
26	234	326		367	
28	271	378		426	
30	311	434		489	
32	354	494		557	
34	400	557		628	
36	448	625		704	
38	500	696		785	
40	554	771		869	
42	610	850		959	

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x19+IWSC	1-6-12	108	18
		6x19+IWRC	1-6-12	108	18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
3	3.43	4.69		5.29	
4	6.10	8.34		9.40	
5	9.53	13.00		14.7	
6	13.7	18.80		21.2	
7	18.7	25.50		28.8	
8	24.4	33.4		37.6	
9	30.9	42.2		47.6	
10	38.1	52.1		58.8	
11	46.1	63.1		71.1	
12	54.9	75.1		84.6	
13	64.4	88.1		99.3	
14	74.7	102		115	
16	98	133		150	
18	123	169		190	
20	152	208		235	
22	184	252		284	
24	219	300		338	
26	258	352		397	
28	299	409		461	
30	343	469		529	
32	390	534		602	
34	440	603		679	
36	494	676		762	
38	550	753		849	
40	610	834		940	
42	672	919		1040	

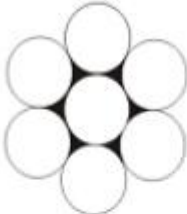
Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		6x37+FC	1-6-12-18	216 36
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1570 KN	Grade 1770 KN	
5	8.65	11.6	13.1	
6	12.5	16.7	18.8	
7	17.0	22.7	25.6	
8	22.1	29.6	33.4	
9	28.0	37.5	42.3	
10	34.6	46.3	52.2	
11	41.9	56.0	63.2	
12	49.8	66.7	75.2	
13	58.5	78.3	88.2	
14	67.8	90.8	102	
16	88.6	119	134	
18	112	150	169	
20	138	185	209	
22	167	224	253	
24	199	267	301	
26	234	313	353	
28	271	363	409	
30	311	417	470	
32	354	474	535	
34	400	535	604	
36	448	600	677	
38	500	669	754	
40	554	741	835	
42	610	817	921	
44	670	897	1010	
46	732	980	1100	

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x37+IWSC 6x37+IWRC	1-6-12-18 1-6-12-18	216 216	36 36
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
5	9.53	12.5		14.1	
6	13.7	18.0		20.3	
7	18.7	24.5		27.7	
8	24.4	32.1		36.1	
9	30.9	40.6		45.7	
10	38.1	50.1		56.5	
11	46.1	60.6		68.3	
12	54.9	72.1		81.3	
13	64.4	84.6		95.4	
14	74.7	98.2		111	
16	97.5	128		145	
18	123	162		183	
20	152	200		226	
22	184	242		273	
24	219	288		325	
26	258	339		382	
28	299	393		443	
30	343	451		508	
32	390	513		578	
34	440	579		653	
36	494	649		732	
38	550	723		815	
40	610	801		903	
42	672	883		996	
44	738	970		1090	
46	806	1060		1190	

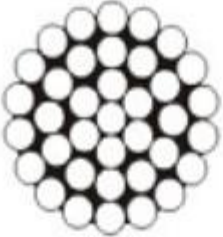
Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		6x24+7FC	FC-9-15	144 24
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1570 KN	Grade 1670 KN	
8	20.4	28.1	29.9	
9	25.8	35.6	37.9	
10	31.8	44.0	46.8	
11	38.5	53.2	56.6	
12	45.8	63.3	67.3	
13	53.7	74.3	79.0	
14	62.3	86.2	91.6	
16	81.4	113	120	
18	103	142	152	
20	127	176	187	
22	154	213	226	
24	183	253	269	
26	215	297	316	
28	249	345	367	
30	286	396	421	
32	326	450	479	
34	368	508	541	
36	412	570	606	
38	459	635	675	
40	509	703	748	

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x12+7FC	FC-12	72	12
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN	Grade 1670 KN		
3	2.26	2.95	3.14		
4	4.02	5.30	5.58		
5	6.28	8.20	8.73		
6	9.04	11.8	12.6		
7	12.3	16.1	17.1		
8	16.1	21.0	22.3		
9	20.3	26.6	28.3		
10	25.1	32.8	34.9		
11	30.4	39.7	42.2		
12	36.1	47.3	50.3		
14	49.2	64.3	68.4		
16	64.3	84.0	89.4		
18	81.3	106	113		
20	100	131	140		
22	121	159	169		
24	145	189	201		
26	170	222	236		
28	197	257	274		
30	226	295	314		
32	257	336	357		

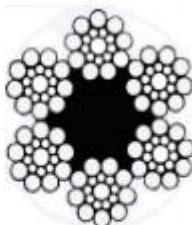
Structure of Wire Rope

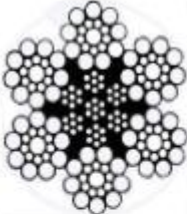
Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		1x7	1-6	6 6
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1670 KN	Grade 1770 KN	
0.6	0.19	0.32	0.34	
1.2	0.75	1.30	1.38	
1.5	1.17	2.03	2.15	
1.8	1.69	2.92	3.10	
2.1	2.30	3.98	4.22	
2.4	3.01	5.19	5.51	
2.7	3.80	6.57	6.97	
3	4.70	8.12	8.60	
3.3	5.68	9.82	10.4	
3.6	6.77	11.7	12.4	
3.9	7.94	13.7	14.5	
4.2	9.21	15.9	16.9	
4.5	10.6	18.3	19.4	
4.8	12.0	20.8	22.0	
5.1	13.6	23.5	24.9	
5.4	15.2	26.3	27.9	
6	18.8	32.5	34.4	
6.6	22.7	39.3	41.6	
7.2	27.1	46.7	49.5	
7.8	31.8	54.9	58.2	
8.4	36.8	63.6	67.4	
9	42.3	73.0	77.4	
9.6	48.1	83.1	88.1	
10.5	57.6	99.4	105	
11.5	69.0	119	126	
12	75.2	130	138	

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		1x19	1-6-12	18	18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1670 KN		Grade 1770 KN	
1	0.51	0.89		0.94	
1.5	1.14	1.99		2.11	
2	2.03	3.54		3.75	
2.5	3.17	5.53		5.86	
3	4.56	7.97		8.44	
3.5	6.21	10.80		11.50	
4	8.11	14.20		15.00	
4.5	10.30	17.90		19.00	
5	12.70	22.10		23.5	
5.5	15.30	26.8		28.4	
6	18.30	31.9		33.8	
6.6	21.40	37.4		39.6	
7	24.8	43.4		46.0	
7.5	28.5	49.8		52.8	
8	32.4	56.6		60.0	
8.5	36.6	63.9		67.8	
9	41.1	71.7		76.0	
10	50.7	88.6		93.8	
11	61.3	107.0		114.0	
12	73.0	127.0		135.0	
13	85.7	150.0		159.0	
14	99.4	173.0		184.0	
15	114.0	199.0		211.0	
16	130.0	227		240	

Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		1x37	1-6-12-18	36 36
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1670 KN	Grade 1770 KN	
1.4	0.98	1.60	1.70	
2.1	2.21	3.61	3.82	
2.8	3.93	6.42	6.80	
3.5	6.14	10.0	10.6	
4.2	8.84	14.4	15.3	
4.9	12.0	19.6	20.8	
5.6	15.7	25.7	27.2	
6.3	19.9	32.5	34.4	
7	24.5	40.1	42.5	
7.7	29.7	48.5	51.4	
8.4	35.4	57.7	61.2	
9.1	41.5	67.8	71.8	
9.8	48.1	78.6	83.3	
10.5	55.2	90.2	95.6	
11	60.6	99.0	105	
12	72.1	118	125	
12.5	78.3	128	136	
14	98.2	160	170	
15.5	120	197	208	
17	145	236	251	
18	162	265	281	
19.5	191	311	330	
21	221	361	382	
22.5	254	414	439	

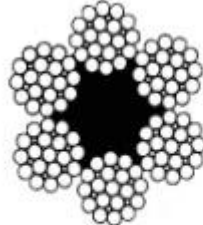
Line Contacted Wire Rope

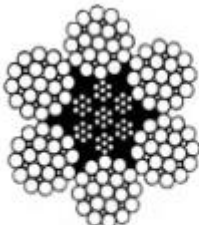
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x19S+FC	1-9-9	108	18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN	Grade 1770 KN		
6	13.4	18.7	21.0		
7	18.3	25.4	28.6		
8	23.9	33.2	37.4		
9	30.2	42.0	47.3		
10	37.3	51.8	58.4		
11	45.1	62.7	70.7		
12	53.7	74.6	84.1		
13	63.0	87.6	98.7		
14	73.1	102	114		
16	95.5	133	150		
18	121	168	189		
20	149	207	234		
22	181	251	283		
24	215	298	336		
26	252	350	395		
28	292	406	458		
30	336	466	526		
32	382	531	598		
34	431	599	675		
36	483	671	757		
38	539	748	843		
40	597	829	935		

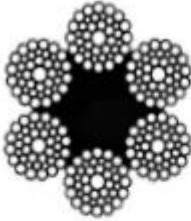
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x19S+IWRC	1-9-9	108	18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN	Grade 1770 KN		
6	14.8	20.1	22.7		
7	20.1	27.4	30.9		
8	26.2	35.8	40.3		
9	33.2	45.3	51.0		
10	41.0	55.9	63.0		
11	49.6	67.6	76.2		
12	59.0	80.5	90.7		
13	69.3	94.5	106.0		
14	80.4	110	124		
16	105	143	161		
18	133	181	204		
20	164	224	252		
22	198	271	305		
24	236	322	363		
26	277	378	426		
28	321	438	494		
30	369	503	567		
32	420	572	645		
34	474	646	728		
36	531	724	817		
38	592	807	910		
40	656	894	1010		

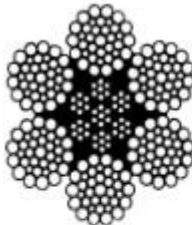
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x19W+FC	1-6-(6-6)	108	18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN	Grade 1770 KN		
6	13.4	18.7	21.0		
7	18.3	25.4	28.6		
8	23.9	33.2	37.4		
9	30.2	42.0	47.3		
10	37.3	51.8	58.4		
11	45.1	62.7	70.7		
12	53.7	74.6	84.1		
13	63.0	87.6	98.7		
14	73.1	102	114		
16	95.5	133	150		
18	121	168	189		
20	149	207	234		
22	181	251	283		
24	215	298	336		
26	252	350	395		
28	292	406	458		
30	336	466	526		
32	382	531	598		
34	431	599	675		
36	483	671	757		
38	539	748	843		
40	597	829	935		

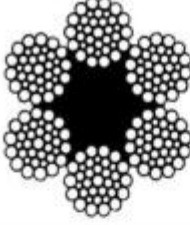
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x19W+IWRC	1-6-(6-6)	108	18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
6	14.8	20.1		22.7	
7	20.1	27.4		30.9	
8	26.2	35.8		40.3	
9	33.2	45.3		51.0	
10	41.0	55.9		63.0	
11	49.6	67.6		76.2	
12	59.0	80.5		90.7	
13	69.3	94.5		106.0	
14	80.4	110		124	
16	105	143		161	
18	133	181		204	
20	164	224		252	
22	198	271		305	
24	236	322		363	
26	277	378		426	
28	321	438		494	
30	369	503		567	
32	420	572		645	
34	474	646		728	
36	531	724		817	
38	592	807		910	
40	656	894		1010	

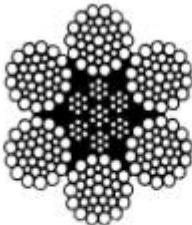
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x25Fi+FC	1-6-6-12	144	24
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
8	24.3	33.2		37.4	
10	38.0	51.8		58.4	
12	54.7	74.6		84.1	
13	64.2	87.6		98.7	
14	74.5	102.0		114.0	
16	97.3	133.0		150.0	
18	123	168.0		189.0	
20	152	207.0		234.0	
22	184	251		283	
24	219	298		336	
26	257	350		395	
28	298	406		458	
30	342	466		526	
32	389	531		598	
34	439	599		675	
36	492	671		757	
38	549	748		843	
40	608	829		935	
42	670	914		1030	
44	736	1000		1130	

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x25Fi+IWR C	1-6-6-12	144	24
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
8	26.8	35.8		40.3	
10	41.8	55.9		63.0	
12	60.2	80.5		90.7	
13	70.6	94.5		106	
14	81.9	110		124	
16	107	143		161	
18	135	181		204	
20	167	224		252	
22	202	271		305	
24	241	322		363	
26	283	378		426	
28	328	438		494	
30	376	503		567	
32	428	572		645	
34	483	646		728	
36	542	724		817	
38	604	807		910	
40	669	894		1010	
42	737	986		1110	
44	809	1080		1220	

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x41WS+FC	1-8-(8-8)-16	240	40
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
8	24.3	33.2		37.4	
10	38.0	51.8		58.4	
12	54.7	74.6		84.1	
13	64.2	87.6		98.7	
14	74.5	102.0		114.0	
16	97.3	133.0		150.0	
18	123	168.0		189.0	
20	152	207.0		234.0	
22	184	251		283	
24	219	298		336	
26	257	350		395	
28	298	406		458	
30	342	466		526	
32	389	531		598	
34	439	599		675	
36	492	671		757	
38	549	748		843	
40	608	829		935	
42	670	914		1030	
44	736	1000		1130	

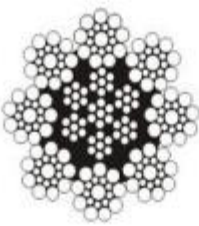
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x36WS+IWR C	1-7-(7-7)-14	210	35
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
8	26.8	35.8		40.3	
10	41.8	55.9		63.0	
12	60.2	80.5		90.7	
13	70.6	94.5		106	
14	81.9	110		124	
16	107	143		161	
18	135	181		204	
20	167	224		252	
22	202	271		305	
24	241	322		363	
26	283	378		426	
28	328	438		494	
30	376	503		567	
32	428	572		645	
34	483	646		728	
36	542	724		817	
38	604	807		910	
40	669	894		1010	
42	737	986		1110	
44	809	1080		1220	

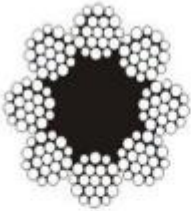
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x36WS+FC	1-7-(7-7)-14	210	35
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN	Grade 1770 KN		
8	24.3	33.2	37.4		
10	38.0	51.8	58.4		
12	54.7	74.6	84.1		
13	64.2	87.6	98.7		
14	74.5	102.0	114.0		
16	97.3	133.0	150.0		
18	123	168.0	189.0		
20	152	207.0	234.0		
22	184	251	283		
24	219	298	336		
26	257	350	395		
28	298	406	458		
30	342	466	526		
32	389	531	598		
34	439	599	675		
36	492	671	757		
38	549	748	843		
40	608	829	935		
42	670	914	1030		
44	736	1000	1130		

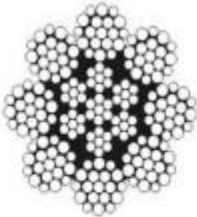
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		6x41WS+IWR C	1-8-(8-8)-16	240	40
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN	Grade 1770 KN		
8	26.8	35.8	40.3		
10	41.8	55.9	63.0		
12	60.2	80.5	90.7		
13	70.6	94.5	106		
14	81.9	110	124		
16	107	143	161		
18	135	181	204		
20	167	224	252		
22	202	271	305		
24	241	322	363		
26	283	378	426		
28	328	438	494		
30	376	503	567		
32	428	572	645		
34	483	646	728		
36	542	724	817		
38	604	807	910		
40	669	894	1010		
42	737	986	1110		
44	809	1080	1220		

Elevator Wire Rope

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		8x19S+FC	1-9-9	144	18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
8	22.3	29.4		33.1	
9	28.2	37.3		42.0	
10	34.8	46.0		51.9	
11	42.1	55.7		62.8	
12	50.1	66.2		74.7	
13	58.8	77.7		87.6	
14	68.2	90.2		102	
16	89.1	118		133	
18	113	149		168	
20	139	184		207	
22	168	223		251	
24	200	265		299	
26	235	311		351	
28	273	361		407	
30	313	414		467	
32	356	471		531	
34	402	532		600	
36	451	596		672	
38	503	664		749	
40	557	736		830	
42	614	811		915	
44	674	891		1000	
46	736	973		1100	
48	802	1060		1190	

Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		8x19S+IWRC	1-9-9	144 18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1570 KN	Grade 1770 KN	
8	27.2	34.7	39.2	
9	34.4	44.0	49.6	
10	42.5	54.3	61.2	
11	51.4	65.7	74.1	
12	61.2	78.2	88.2	
13	71.8	91.8	103.0	
14	83.3	106.0	120	
16	109	139	157	
18	138	176	198	
20	170	217	245	
22	206	263	296	
24	245	313	353	
26	287	367	414	
28	333	426	480	
30	383	489	551	
32	435	556	627	
34	491	628	708	
36	551	704	794	
38	614	784	884	
40	680	869	980	
42	750	958	1080	
44	823	1050	1190	
46	899	1150	1300	
48	979	1250	1410	

Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		8x19W+FC	1-6-(6-6)	144 18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1570 KN	Grade 1770 KN	
8	22.3	29.4	33.1	
9	28.2	37.3	42.0	
10	34.8	46.0	51.9	
11	42.1	55.7	62.8	
12	50.1	66.2	74.7	
13	58.8	77.7	87.6	
14	68.2	90.2	102	
16	89.1	118	133	
18	113	149	168	
20	139	184	207	
22	168	223	251	
24	200	265	299	
26	235	311	351	
28	273	361	407	
30	313	414	467	
32	356	471	531	
34	402	532	600	
36	451	596	672	
38	503	664	749	
40	557	736	830	
42	614	811	915	
44	674	891	1000	
46	736	973	1100	
48	802	1060	1190	

Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		8x19W+IWRC	1-6-(6-6)	144 18
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1570 KN	Grade 1770 KN	
8	27.2	34.7	39.2	
9	34.4	44.0	49.6	
10	42.5	54.3	61.2	
11	51.4	65.7	74.1	
12	61.2	78.2	88.2	
13	71.8	91.8	103.0	
14	83.3	106.0	120	
16	109	139	157	
18	138	176	198	
20	170	217	245	
22	206	263	296	
24	245	313	353	
26	287	367	414	
28	333	426	480	
30	383	489	551	
32	435	556	627	
34	491	628	708	
36	551	704	794	
38	614	784	884	
40	680	869	980	
42	750	958	1080	
44	823	1050	1190	
46	899	1150	1300	
48	979	1250	1410	

Non-rotating Wire Rope

Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		17x7+FC	1-6	102 6
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1570 KN	Grade 1770 KN	
6	14.0	17.5	19.8	
7	19.1	23.8	26.9	
8	25.0	31.1	35.1	
9	31.6	39.4	44.4	
10	39.0	48.7	54.9	
11	47.2	58.9	66.4	
12	56.2	70.1	79.0	
13	65.9	82.3	92.7	
14	76.4	95.4	108	
16	99.8	125	140	
18	126	158	178	
20	156	195	219	
22	189	236	266	
24	225	280	316	
26	264	329	371	
28	306	382	430	
30	351	438	494	
32	399	498	562	
34	451	563	634	
36	505	631	711	
38	563	703	792	
40	624	779	878	
42	688	859	968	
44	755	942	1060	

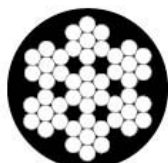
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		17x7+IWRC	1-6	102	6
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
6	15.5	18.5		20.9	
7	21.1	25.2		28.4	
8	27.5	33.0		37.2	
9	34.8	41.7		47.0	
10	43.0	51.5		58.1	
11	52.0	62.3		70.2	
12	61.9	74.2		83.6	
13	72.7	87.0		98.1	
14	84.3	101.0		114	
16	110.0	132		149	
18	139	167		188	
20	172	206		232	
22	208	249		281	
24	248	297		334	
26	291	348		392	
28	337	404		455	
30	387	463		523	
32	440	527		594	
34	497	595		671	
36	557	667		752	
38	621	744		838	
40	688	824		929	
42	759	908		1020	
44	832	997		1120	

Typical cross-section 		Typical construction		
		Rope construction	Strand construction	Outer wires
				Total Per strand
		18x7+FC	1-6	108 6
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load		
		Grade 1570 KN	Grade 1770 KN	
6	14.0	17.5	19.8	
7	19.1	23.8	26.9	
8	25.0	31.1	35.1	
9	31.6	39.4	44.4	
10	39.0	48.7	54.9	
11	47.2	58.9	66.4	
12	56.2	70.1	79.0	
13	65.9	82.3	92.7	
14	76.4	95.4	108	
16	99.8	125	140	
18	126	158	178	
20	156	195	219	
22	189	236	266	
24	225	280	316	
26	264	329	371	
28	306	382	430	
30	351	438	494	
32	399	498	562	
34	451	563	634	
36	505	631	711	
38	563	703	792	
40	624	779	878	
42	688	859	968	
44	755	942	1060	

Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		18x7+IWRC	1-6	108	6
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
6	15.5	18.5		20.9	
7	21.1	25.2		28.4	
8	27.5	33.0		37.2	
9	34.8	41.7		47.0	
10	43.0	51.5		58.1	
11	52.0	62.3		70.2	
12	61.9	74.2		83.6	
13	72.7	87.0		98.1	
14	84.3	101.0		114	
16	110.0	132		149	
18	139	167		188	
20	172	206		232	
22	208	249		281	
24	248	297		334	
26	291	348		392	
28	337	404		455	
30	387	463		523	
32	440	527		594	
34	497	595		671	
36	557	667		752	
38	621	744		838	
40	688	824		929	
42	759	908		1020	
44	832	997		1120	

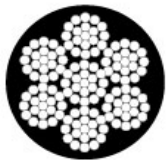
Typical cross-section 		Typical construction			
		Rope construction	Strand construction	Outer wires	
				Total	Per strand
		35Wx7	1-6	210	6
Diameter mm	Approx Weight of Rope kg/100m	Minimum breaking load			
		Grade 1570 KN		Grade 1770 KN	
6	16.6	20.3		22.9	
8	29.4	36.2		40.8	
10	46.0	56.5		63.7	
12	66.2	81.4		91.8	
14	90.2	111.0		125.0	
16	118.0	145.0		163.0	
18	149.0	183.0		206	
20	184	226		255	
22	223	274		308	
24	265	326		367	
26	311	382		431	
28	361	443		500	
30	414	509		573	
32	471	579		652	
34	532	653		737	
36	596	732		826	
38	664	816		920	
40	736	904		1020	
42	811	997		1120	
44	891	1090		1230	

PVC Coated Wire Rope



7 × 7

直径 Diameter Inch		参考重量 Approx. Weight					
内径 Inner Cable	外径 Outer Cover	内钢绳 Inner Cable		披覆 Jacket		总重量 Total Weight	
		Lb/100ft	Kg/100m	Lb/100ft	Kg/100m	Lb/100ft	Kg/100m
1/16	3/32	0.75	1.12	0.22	0.33	0.97	1.45
1/16	1/8	0.75	1.12	0.55	0.82	1.30	1.94
1/16	3/16	0.75	1.12	1.20	1.79	1.95	2.91
3/32	1/8	1.60	2.38	0.30	0.45	1.90	2.83
3/32	5/32	1.60	2.38	0.75	1.12	2.35	3.50
3/32	3/16	1.60	2.38	1.20	1.79	2.80	4.17
1/8	3/16	2.80	4.17	0.92	1.37	3.72	5.54
1/8	1/4	2.80	4.17	2.25	3.35	5.05	7.52
3/16	5/16	6.20	9.23	2.90	4.32	9.10	13.5



7 × 19

直径 Diameter Inch		参考重量 Approx. Weight					
内径 Inner Cable	外径 Outer Cover	内钢绳 Inner Cable		披覆 Jacket		总重量 Total Weight	
		Lb/100ft	Kg/100m	Lb/100ft	Kg/100m	Lb/100ft	Kg/100m
1/8	3/16	2.9	4.32	0.86	1.28	3.76	5.60
1/8	7/32	2.9	4.32	1.44	2.14	4.34	6.46
1/8	1/4	2.9	4.32	1.95	2.90	4.85	7.22
5/32	7/32	4.5	6.70	1.03	1.53	5.53	8.23
3/16	1/4	6.5	9.67	1.5	2.23	8.0	11.9
3/16	5/16	6.5	9.67	2.9	4.32	9.4	14.0
1/4	5/16	11.0	16.4	1.6	2.38	12.6	18.8
1/4	3/8	11.0	16.4	4.3	6.40	15.3	22.8
5/16	13/32	17.3	25.7	3.0	4.46	20.3	30.2
5/16	7/16	17.3	25.7	4.4	6.55	21.7	32.3
3/8	7/16	24.3	36.2	2.1	3.13	26.4	39.3
3/8	15/32	24.3	36.2	3.5	5.21	27.8	41.4

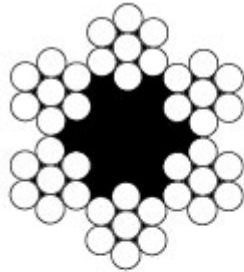
Guy strand



直径 Diameter Inch	钢丝根数 No. of Wire	钢丝公称 直径 (inch)	破断荷重 Min. Breaking Load (lbf)					参考重量 Approx. Weight (Lb/100ft)
			通用级 General Grade	普通级 Common Grade	平炉级 Open Hearth Grade	高强度级 High Grade	超高强度级 Enhance Grade	
1/8	7	0.041	----	540	910	1330	1830	3.2
5/32	7	0.052	----	870	1470	2140	2940	5.1
3/16	7	0.062	----	1150	1900	2850	3990	7.3
3/16	7	0.065	2400	----	----	----	----	8.0
7/32	3	0.104	----	1400	2340	3500	4900	8.8
7/32	7	0.072	----	1540	2560	3850	5400	9.8
1/4	3	0.120	3150	1860	3040	4730	6740	11.7
1/4	3	0.120	4500	----	----	----	----	11.7
1/4	7	0.080	----	1900	3150	4750	6650	12.1
9/32	3	0.130	----	2080	3380	5260	7500	13.7
9/32	7	0.093	4600	2570	4250	6400	8950	16.4
5/16	3	0.145	6500	2490	4090	6350	9100	17.1
5/16	7	0.104	----	3200	5350	8000	11200	20.5
5/16	7	0.109	6000	----	----	----	----	22.5
3/8	3	0.165	8500	3330	5560	8360	11800	22.0
3/8	7	0.120	11500	4250	6950	10800	15400	27.3
7/16	7	0.145	18000	5700	9350	14500	20800	39.9
1/2	7	0.165	25000	7400	12100	18800	26900	51.7
1/2	19	0.100	----	7620	12700	19100	26700	50.4
9/16	7	0.188	----	9600	15700	24500	35000	67.1
9/16	19	0.113	----	9640	16100	24100	33700	63.7
5/8	7	0.207	----	11600	19100	29600	42400	81.3
5/8	19	0.125	----	11000	18100	28100	40200	79.6
3/4	19	0.150	----	16000	26200	40800	58300	115.5
7/8	19	0.177	----	21900	35900	55800	79700	158.1
1	19	0.200	----	28700	47000	73200	104500	207.3
1	37	0.143	----	28300	46200	71900	102700	205.7
1-1/8	37	0.161	----	36000	58900	91600	130800	269.1
1-1/4	37	0.179	----	44600	73000	113600	162200	324.8

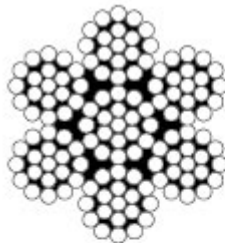
号别 Wire Grade	钢丝根数/钢丝直径 Wire Numbers/Wire Diameter (根数Numbers/mm)	钢绞线公称直径 Nominal Diameter of Steel Strand (mm)	钢绞线公称截面积 Nominal Section Area of Steel Strand (mm ²)	破断荷重 Min.Breaking Load(kN)			参考重量 Approx.-Weight(k-
				1种	2种	3种	
1号 Grade 1	3/2.9	6.2	19.8	22.4	16.1	12.6	156
	3/3.2	6.9	24.1	27.4	19.6	15.2	190
	3/3.5	7.5	28.9	32.5	23.4	18.2	228
	3/4	8.6	37.7	42.5	30.6	23.8	297
	3/4.3	9.3	43.6	49.2	35.5	27.7	344
	3/4.5	9.7	47.7	53.8	38.7	30.0	376
2号 Grade 2	7/1	3.0	5.50	6.19	4.48	3.47	43.5
	7/1.2	3.6	7.92	8.90	6.44	4.99	62.7
	7/1.4	4.2	10.8	12.2	8.78	6.83	85.3
	7/1.6	4.8	14.1	15.9	11.5	8.90	111
	7/1.8	5.4	17.8	20.1	14.4	11.3	141
	7/2	6.0	22.0	24.8	17.8	13.9	174
	7/2.3	6.9	29.1	32.8	23.6	18.3	230
	7/2.6	7.8	37.2	42.0	30.2	23.5	294
	7/2.9	8.7	46.2	52.2	37.6	29.2	366
	7/3.2	9.6	56.3	63.7	45.7	35.6	446
	7/3.5	10.5	67.3	75.8	54.7	42.5	533
	7/3.8	11.4	79.3	89.6	64.4	50.1	628
	7/4	12.0	88.0	99.1	71.4	55.6	696
	7/4.3	12.9	102	115	82.8	64.4	805
	7/4.5	13.5	111	126	90.3	70.1	881
	7/5	15.0	137	155	112	86.5	1090
3号 Grade 3	19/1.6	8.0	38.2	42.1	30.4	23.6	304
	19/1.8	9.0	48.3	53.3	38.4	29.8	384
	19/2	10.0	59.7	65.9	47.5	36.9	474
	19/2.3	11.5	78.9	87.0	62.8	48.8	627
	19/2.6	13.0	102	112	80.1	62.4	802
	19/2.9	14.5	125	138	100	77.5	997
	19/3.2	16.0	153	170	122	94.4	1210
	19/3.5	17.5	183	201	145	113	1450
	19/4	20.0	239	263	189	147	1900

Stainless steel wire rope



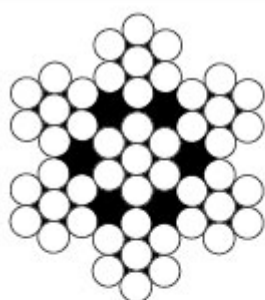
6×7

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	32.4	40.2	0.242
9	41.0	50.8	0.306
10	48.0	59.4	0.378
12	69.1	85.5	0.545
14	90.9	110	0.742
16	119	143	0.968
18	150	181	1.23
20	175	210	1.51



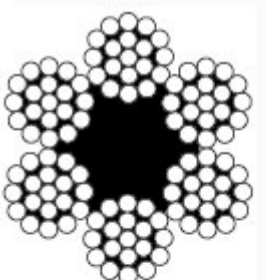
7×19

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	36.9	46.1	0.274
9	46.7	58.4	0.347
10	55.1	68.4	0.428
12	79.3	98.5	0.617
14	108	134	0.84
16	134	166	1.10
18	169	210	1.39
20	209	259	1.71



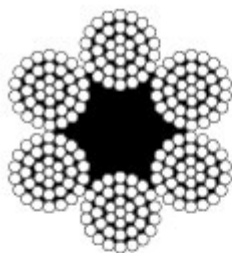
7×7

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	37.3	46.3	0.277
9	47.3	58.6	0.351
10	55.3	68.5	0.434
12	79.6	98.6	0.624
14	105	127	0.85
16	137	165	1.11
18	173	209	1.40
20	201	243	1.73



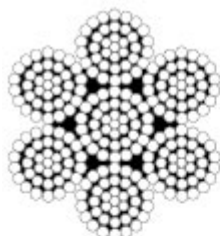
6×19

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	30.9	38.6	0.238
9	39.1	48.9	0.301
10	46.2	57.3	0.371
12	66.5	82.5	0.535
14	90.5	112	0.728
16	112	139	0.95
18	142	176	1.20
20	175	217	1.49



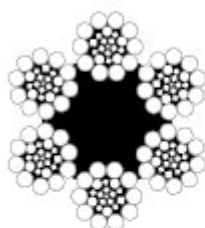
6×37

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	30.3	39.9	0.235
9	38.4	48.0	0.297
10	47.4	59.3	0.366
12	68.3	85.4	0.528
14	88.8	110	0.718
16	116	144	0.938
18	147	182	1.19
20	181	225	1.47
22	208	258	1.77
24	247	307	2.11
26	290	360	2.48
28	337	417	2.87
30	373	452	3.30
32	425	514	3.75
36	538	650	4.75
40	664	803	5.86
44	757	913	7.10
48	901	1090	8.44
52	1060	1270	9.91
56	1140	1380	11.5
60	1310	1590	13.2



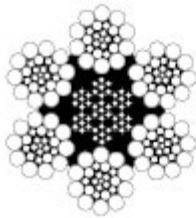
7 × 37

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	35.8	47.2	0.271
9	45.4	56.8	0.343
10	56.0	70.1	0.423
12	80.6	101	0.61
14	105	130	0.83
16	137	170	1.08
18	174	215	1.37
20	214	266	1.69
22	246	304	2.05
24	292	362	2.44
26	343	425	2.86
28	398	493	3.32
30	441	534	3.81
32	502	607	4.33
36	635	769	5.49
40	784	949	6.77
44	894	1080	8.20
48	1060	1280	9.75
52	1250	1510	11.4
56	1350	1630	13.3
60	1550	1880	15.2



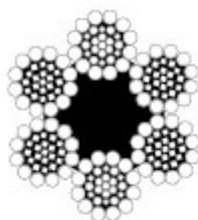
6 × WS(26)

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	30.1	37.4	0.252
9	38.1	47.3	0.319
10	47.0	58.4	0.394
11.2	59.0	73.3	0.494
12.5	73.5	91.3	0.615
14	87.4	108	0.771
16	114	141	1.01
18	144	179	1.27
20	172	208	1.57
22.4	216	261	1.97
25	269	326	2.46
28	318	384	3.09
30	365	440	3.54
31.5	403	486	3.90
33.5	456	549	4.42
35.5	477	577	4.96
37.5	532	644	5.53
40	605	732	6.3



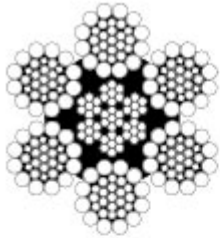
IWRC 6 × WS(26)

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	34.2	42.5	0.281
9	43.3	53.8	0.355
10	53.4	66.4	0.439
11.2	67.0	83.3	0.550
12.5	83.5	104	0.685
14	99.3	123	0.86
16	130	161	1.12
18	164	204	1.42
20	196	237	1.75
22.4	245	297	2.20
25	306	370	2.74
28	362	436	3.44
30	415	501	3.95
31.5	458	552	4.35
33.5	517	625	4.92
35.5	541	656	5.53
37.5	604	732	6.17
40	687	833	7.02



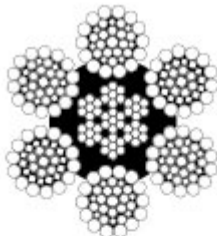
6 × WS(31)

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	32.1	40.2	0.258
9	40.6	50.8	0.327
10	47.9	59.5	0.404
11.2	60.1	74.7	0.506
12.5	74.9	93.0	0.631
14	93.9	117	0.791
16	116	144	1.03
18	147	182	1.31
20	182	225	1.61
22.4	220	266	2.03
25	274	332	2.52
28	344	416	3.17
30	395	478	3.63
31.5	410	495	4.01
33.5	464	560	4.53
35.5	521	629	5.09
37.5	581	701	5.68
40	661	798	6.46



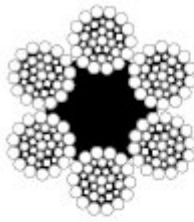
IWRC 6 × WS(31)

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
8	36.6	45.8	0.287
9	46.3	58.0	0.364
10	54.6	67.9	0.449
11.2	68.5	85.2	0.563
12.5	85.3	106	0.701
14	107	133	0.88
16	133	165	1.15
18	168	208	1.45
20	207	257	1.80
22.4	251	304	2.25
25	312	379	2.81
28	392	475	3.52
30	450	545	4.04
31.5	468	565	4.45
33.5	529	639	5.04
35.5	594	717	5.66
37.5	663	800	6.31
40	754	911	7.18



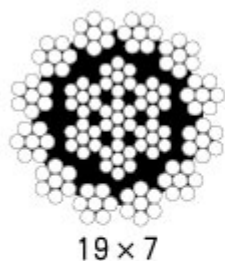
IWRC 6 × WS (36)

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
20	207	257	1.80
22.4	260	322	2.25
25	312	379	2.81
28	392	475	3.52
30	450	545	4.04
31.5	496	601	4.45
33.5	561	680	5.04
35.5	594	717	5.66
37.5	663	800	6.31
40	754	911	7.18
42.5	851	1030	8.11
45	954	1150	9.09
47.5	991	1200	10.1
50	1100	1330	11.2
53	1230	1500	12.6
56	1380	1670	14.4
60	1580	1920	16.2



6 × WS(36)

直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
20	182	22.5	1.61
22.4	228	283	2.03
25	274	332	2.52
28	344	416	3.17
30	395	478	3.63
31.5	435	527	4.01
33.5	492	596	4.53
35.5	521	629	5.09
37.5	581	701	5.68
40	661	798	6.46
42.5	747	901	7.29
45	837	1010	8.18
47.5	869	1050	9.11
50	963	1170	10.1
53	1080	1310	11.3
56	1210	1460	12.7
60	1390	1680	14.5



直径 Diameter mm	JIS G 3557		
	破断荷重 Min. Breaking Load (Kg)		参考重量 Approx. Weight (Kg/m)
	SA种	SB种	
12	73.6	91.5	0.625
14	100	125	0.850
16	124	154	1.11
18	157	195	1.41
20	194	241	1.73
22	226	274	2.10

Special purpose wire rope



分类 Classification	成份 Composition	用途 Application	镀层 Coating	直径 Diameter mm	备注 Remark
热镀锌铝合金 Hot Dip Zinc Aluminum Alloy	Al 5% + Zn	钢芯铝绞线 钢绞线 渔业钢丝绳 ACSR, Galvanized Guy Strand, Fishing Rope	$\leq 300 \text{ g/m}^2$	≤ 4.0	参照下表 See Below
电镀黄铜 Electroplate Brass	Zn 30% + Cu 70%	制造胶管钢丝 Hose Wire	$\leq 10 \text{ g/Kg}$	≤ 2.0	
电镀锡 Electroplate Tin	纯锡 Sn 100%	拉筋线用丝 控制线用丝 Wire for Inner and Control Cable	$\leq 100 \text{ g/m}^2$	≤ 1.5	