



CHUNG WOO & CS

STEEL WIRE ROPE
HIGH CARBON WIRE
COLD DRAWN STEEL BAR

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CHUNG WOO STEEL

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CHUNG WOO & CS

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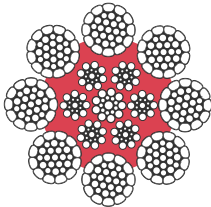
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STEEL WIRE ROPE

Millimeter in Diameter

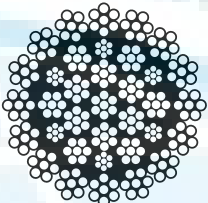
STEEL WIRE ROPE

Millimeter in Diameter



8xKWS26+EPIWRC

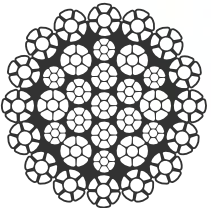
NOMINAL DIA.(MM)	WEIGHT (KG/M)	MINIMUM BREAKING LOAD(KN)	
		1960 GRADE	2160 GRADE
11	0.57	110	121
12	0.68	130	144
13	0.79	153	169
14	0.92	177	196
15	1.06	204	225
16	1.20	232	255
17	1.36	262	288
18	1.52	293	323
20	1.88	362	399
22	2.27	438	483
24	2.71	522	575
25	2.94	566	624
26	3.18	612	675
28	3.68	710	782
30	4.23	815	898
32	4.81	927	1022



35(W)x7

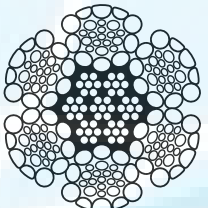
EN 12385-4

NOMINAL DIA.(MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		1960 GRADE	2160 GRADE
8	29.1	45.2	48.4
9	36.8	57.2	61.2
10	45.4	70.6	75.6
11	54.9	85.4	91.5
12	65.4	102	109
13	76.7	119	128
14	89.0	138	148
16	116	181	194
18	147	229	245
20	182	282	302
22	220	342	366
24	262	406	435
26	307	477	511
28	356	553	593
30	408	635	680
32	465	723	774
34	524	817	874
36	588	914	980



35(W)x7 COMPACTED

NOMINAL DIA.(MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		1960 GRADE	2160 GRADE
8	0.318	54.9	61.4
9	0.403	69.5	77.7
10	49.7	87.6	98.3
11	60.1	105	118
12	71.6	124	140
13	84.0	144	162
14	97.4	168	188
16	127	224	251
18	161	274	308
19	179	307	344
20	199	341	382
22	241	415	466
24	286	491	555
26	336	588	660
28	390	676	758
32	509	873	980
36	644	1110	1232



6xWS26 / 6xS19+IWRC SWAGED

NOMINAL DIA.(MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)
8	36.4	65
9	46.1	83
10	56.9	103
11	68.8	121
12	81.9	142
13	96.2	174
14	112	202
15	128	231
16	146	263
17	164	297
18	184	333
20	204	365

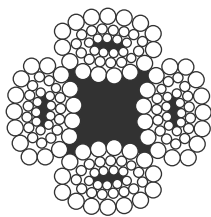
STEEL WIRE ROPE

Millimeter in Diameter

STEEL WIRE ROPE

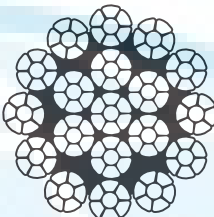
Millimeter in Diameter

4xSES39+FC SWAGED



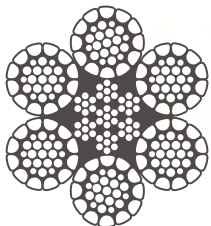
NOMINAL DIA.(MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		1770 GRADE	1960 GRADE
8	26.3	51.8	56.0
10	41.1	63.9	69.2
12	59.2	89.0	96.5
14	80.6	126	136
16	105	164	178
18	133	209	226
20	164	256	278
22	199	299	234
24	237	356	385
25	255	399	433
26	276	432	467
30	373	576	624
33.5	465	718	778
35.5	518	809	893
40.0	658	1023	1133

19x7 COMPACTED



NOMINAL DIA.(MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		1960 GRADE	2160 GRADE
6	18.1	30.7	34.0
7	24.7	39.8	44.0
8	32.3	54.0	60.0
9	40.8	68.0	75.0
10	50.4	84.0	93.0
11	61.0	105	116
12	72.6	121	133
13	85.2	147	162
14	98.8	167	185
16	129	219	243
18	163	278	308
19	182	304	337
20	202	336	372
22	244	412	457
24	290	476	541

6xWS36+IWRC COMPACTED



NOMINAL DIA.(MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		1960 GRADE	2160 GRADE
10	46.2	85.3	91.5
11	55.9	98.1	113
12	66.5	114	127
13	78.1	147	157
14	90.6	169	183
16	118	217	228
18	150	275	298
19	167	302	323
20	185	333	355
22	223	398	423
24	266	487	518
26	312	576	610
28	332	655	700
32	473	844	914
36	599	1060	1120

STEEL WIRE ROPE

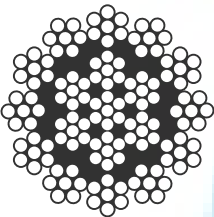
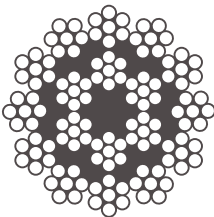
Millimeter in Diameter

STEEL WIRE ROPE

Millimeter in Diameter

18x7 / 19x7

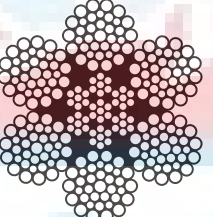
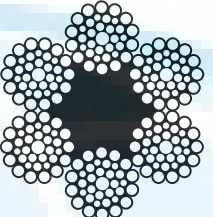
EN 12385-4



NOMINAL DIA.(MM)	WEIGHT(KG/100M)		MINIMUM BREAKING LOAD(KN)	
	FIBER CORE	STEEL CORE	1960 GRADE	2160 GRADE
4	6.0	7.00	10.3	11.3
5	9.0	10.0	16.1	17.7
6	14.0	14.0	23.1	25.5
7	19.0	20.0	31.5	34.7
8	24.0	26.0	41.1	45.3
9	31.0	33.0	52.1	57.4
10	38.0	40.0	64.3	70.9
11	46.0	49.0	77.8	85.7
12	55.0	58.0	92.6	102
13	65.0	68.0	108	120
14	75.0	79.0	126	139
16	98.0	103	165	181
18	124	130	208	230
20	153	160	257	283
22	185	194	311	343
24	220	231	370	408
26	258	271	435	479
28	299	314	504	555

6xWS36+FC / IWRC

EN 12385-4



NOMINAL DIA. (MM)	WEIGHT (KG/100M)		MINIMUM BREAKING LOAD(KN)			
			1770 GRADE		1960 GRADE	
	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE
8	23.5	26.2	37.4	40.3	41.4	44.7
9	29.7	33.1	47.3	51.0	52.4	56.5
10	36.7	40.9	58.4	63.0	64.7	69.8
12	52.8	58.9	84.1	90.7	93.1	100
14	71.9	80.2	114	124	127	137
16	94	105	150	161	166	179
18	119	133	189	204	210	226
20	147	164	234	252	259	279
22	178	198	283	305	313	338
24	211	236	336	363	373	402
26	248	276	395	426	437	472
28	288	321	458	494	507	547
30	330	368	526	567	582	628
32	376	419	598	645	662	715
34	424	473	675	728	748	807
36	476	530	757	817	838	904
38	530	591	843	910	934	1008
40	587	654	935	1010	1040	1120
42	647	722	1030	1112	1141	1231
44	711	792	1130	1220	1250	1350
46	777	865	1236	1333	1369	1477
48	846	942	1350	1450	1490	1610
50	918	1023	1460	1575	1617	1744

STEEL WIRE ROPE

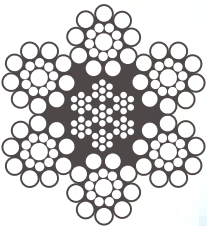
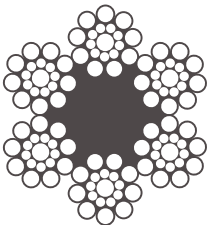
Millimeter in Diameter

STEEL WIRE ROPE

Millimeter in Diameter

6xS19+FC / IWRC

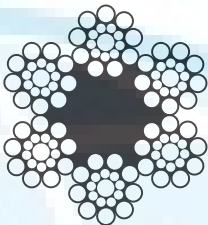
EN 12385-4



NOMINAL DIA. (MM)	WEIGHT (KG/100M)		MINIMUM BREAKING LOAD(KN)			
			1770 GRADE		1960 GRADE	
	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE
6	12.9	14.4	21.0	22.7	23.3	25.1
7	17.6	19.6	28.6	30.9	31.7	34.2
8	23.0	25.6	37.4	40.3	41.4	44.7
9	29.1	32.4	47.3	51.0	52.4	56.5
10	35.9	40.0	58.4	63.0	64.7	69.8
12	43.3	57.6	84.1	90.7	93.1	100
14	70.4	78.4	114	124	127	137
16	91.9	102	150	161	166	179
18	116	130	189	204	210	226
20	144	160	234	252	259	279
22	174	194	283	305	313	338
24	207	230	336	363	373	402
26	243	270	395	426	437	472
28	281	314	458	494	507	547
30	323	360	526	567	582	628
32	368	410	598	645	662	715
34	415	462	675	728	748	807
36	465	518	757	817	838	904
38	518	578	843	910	934	1008
40	574	640	935	1010	1040	1120
42	633	706	1030	1112	1141	1231
44	695	774	1130	1220	1250	1350
46	760	846	1236	1333	1369	1477
48	827	922	1350	1450	1490	1610
50	898	1000	1460	1575	1617	1744

6xS19+FC FOR ELEVATOR

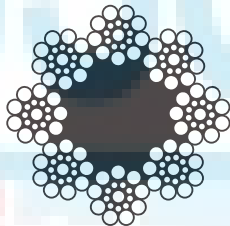
EN 12385-5



NOMINAL DIA. (MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)		
		GRADE 1370/1770 (DUAL)	1570 GRADE	1770 GRADE
8	23.0	31.7	33.2	37.4
9	29.1	40.1	42.0	47.3
10	35.9	49.5	51.8	58.4
11	43.4	59.9	62.7	70.7
12	51.7	71.3	74.6	84.1
13	60.7	83.7	87.6	98.7
14	70.4	97.0	102	114
15	80.8	111	117	131
16	91.9	127	133	150

8xS19+FC FOR ELEVATOR

EN 12385-5



NOMINAL DIA. (MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)		
		GRADE 1370/1770 (DUAL)	1570 GRADE	1770 GRADE
8	21.8	28.1	29.4	33.2
9	27.5	35.6	37.3	42.0
10	34.0	44.0	46.0	51.9
11	41.1	53.2	55.7	62.8
12	49.0	63.3	66.2	74.7
13	57.5	74.3	77.7	87.6
14	66.6	86.1	90.2	102
15	76.5	98.9	104	117
16	87.0	113	118	133

STEEL WIRE ROPE

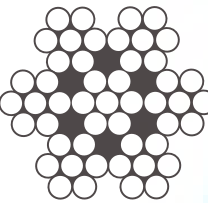
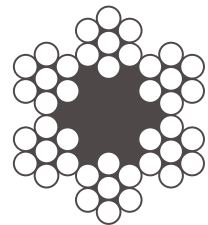
Millimeter in Diameter

STEEL WIRE ROPE

Millimeter in Diameter

6x7+FC / 7x7 GALVANIZED CABLE

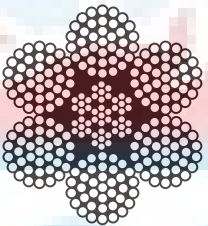
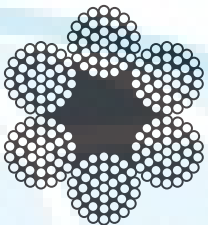
EN12385-4



NOMINAL DIA. (MM)	WEIGHT (KG/100M)		MINIMUM BREAKING LOAD(KN)			
			1770 GRADE		1960 GRADE	
	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE
2	1.38	1.54	2.35	2.54	2.60	2.81
3	3.11	3.46	5.29	5.7	5.86	6.33
4	5.5	6.14	9.40	10.2	104	11.3
5	8.63	9.60	14.7	15.9	16.3	17.6
6	12.4	13.8	21.2	22.9	23.4	25.3
7	16.9	18.8	28.8	31.1	31.9	34.5
8	22.1	24.6	37.6	40.7	41.6	45.0
9	27.9	31.1	47.6	51.5	52.7	57.0
10	34.5	38.4	58.8	63.5	65.1	70.4
11	41.7	46.5	71.1	76.9	78.7	85.1
12	49.7	55.3	84.6	91.5	93.7	101
13	58.3	64.9	99.3	107	110	119
14	67.6	45.3	115	125	128	138
16	88.3	98.3	150	163	167	180

6x37+FC / IWRC GALVANIZED CABLE

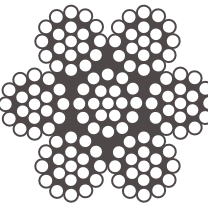
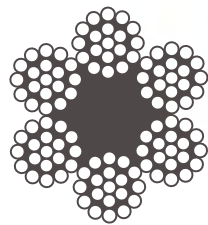
EN 12385-4



NOMINAL DIA.(MM)	WEIGHT(KG/100M)		MINIMUM BREAKING LOAD(KN)	
	FIBER CORE	STEEL CORE	FIBER CORE	FIBER CORE
6	12.5	13.7	18.8	22.0
7	17.0	18.7	25.6	30.0
8	22.1	24.4	33.4	39.2
9	28.0	30.9	42.3	49.6
10	34.6	38.1	52.2	61.2
11	41.9	46.1	63.2	74.1
12	49.8	54.9	75.2	88.2
14	67.8	74.7	102	120
16	88.6	97.5	134	157
18	112	123	169	198
20	138	152	208	245
22	167	184	253	296
24	199	219	301	353
26	234	258	353	414
28	271	299	409	480
30	311	343	470	551
32	354	390	535	578

6x19+FC / 7x19 GALVANIZED CABLE

EN12385-4



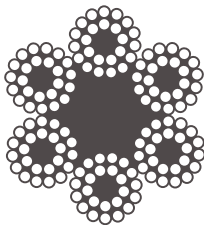
NOMINAL DIA. (MM)	WEIGHT (KG/100M)		MINIMUM BREAKING LOAD(KN)			
			1770 GRADE		1960 GRADE	
	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE
3	3.11	3.43	4.89	5.77	5.42	6.39
4	5.54	6.10	8.69	10.3	9.63	11.4
5	8.65	9.53	13.6	16.0	15.0	17.7
6	12.5	13.70	19.6	23.1	21.7	25.5
7	17.0	18.7	26.6	32.4	29.5	34.8
8	22.1	24.4	34.8	41.0	38.5	45.4
9	28.0	30.9	44.0	51.9	48.7	57.5
10	34.6	38.1	54.3	64.1	60.2	71.0
11	41.9	46.1	65.8	77.5	72.8	85.9
12	49.8	54.9	78.2	92.3	86.6	102
13	58.5	64.4	91.8	108	102	120
14	67.8	74.7	107	126	118	139
16	88.6	97.5	139	164	154	182

STEEL WIRE ROPE

Millimeter in Diameter

STEEL WIRE ROPE

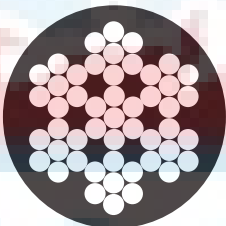
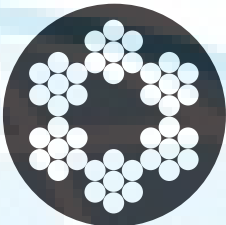
Millimeter in Diameter



6x24+7FC

DIN 3068

NOMINAL DIA.(MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)
		1960 GRADE
8	20.4	31.7
9	25.8	40.1
10	31.8	49.6
11	38.5	60.0
12	45.8	71.4
13	53.8	83.8
14	62.4	97.1
15	71.6	112
16	81.5	127
17	92.0	143
18	103	161
19	115	179
20	127	198
21	140	219
22	154	240
24	183	285
25	199	310
26	215	335
28	250	389
30	286	446
32	326	507
34	368	573



6x7+FC / 7x7 WITH COATING

EN 12385-4

NOMINAL DIA. (MM)	WEIGHT(KG/100M)		MINIMUM BREAKING LOAD(KN)			
			1770 GRADE		1960 GRADE	
	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE
2 - 3	1.93	2.09	2.35	2.54	2.60	2.81
2 - 4	2.59	2.75	2.35	2.54	2.60	2.81
2 - 5	3.43	3.59	2.35	2.54	2.60	2.81
3 - 4	3.94	4.29	5.29	5.72	5.86	6.33
3 - 5	4.79	5.14	5.29	5.72	5.86	6.33
4 - 5	6.67	7.29	9.40	10.2	10.4	11.3
4 - 6	7.71	8.33	9.40	10.2	10.4	11.3
5 - 6	10.1	11.1	14.7	15.9	16.3	17.6
5 - 7	11.4	12.3	14.7	15.9	16.3	17.6
6 - 8	15.7	17.1	21.2	22.9	23.4	25.3
6 - 9	17.3	18.7	21.2	22.9	23.4	25.3
8 - 10	26.7	29.2	37.6	40.7	41.6	45.0
10 - 12	40.5	44.4	58.8	63.5	65.1	70.4

※ Product of the coating material is PVC, PP, PE and UV stabilized is optional.
※ Various color is available.

STEEL WIRE ROPE

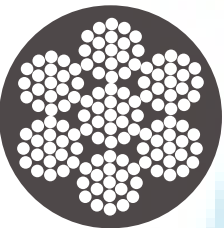
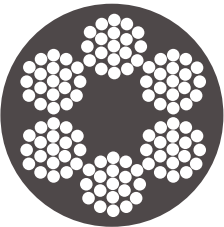
Millimeter in Diameter

STEEL WIRE ROPE

Millimeter in Diameter

6x19+FC / 7x19 WITH COATING

EN 12385-4

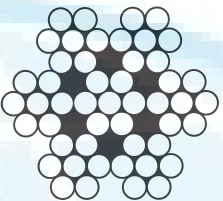


NOMINAL DIA. (MM)	WEIGHT (KG/100M)		MINIMUM BREAKING LOAD(KN)			
			1770 GRADE		1960 GRADE	
	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE
3 - 4	3.94	4.26	4.89	5.77	5.42	6.39
3 - 5	4.79	5.11	4.89	5.77	5.42	6.39
4 - 5	6.69	7.25	8.69	10.3	9.63	11.4
4 - 6	7.73	8.29	8.69	10.3	9.63	11.4
5 - 6	10.2	11.0	13.6	16.0	15.0	17.7
5 - 7	11.4	12.3	13.6	16.0	15.0	17.7
6 - 8	15.8	17.0	19.6	23.1	21.7	25.5
6 - 9	17.4	18.6	19.6	23.1	21.7	25.5
8 - 10	26.7	29.0	34.8	41.0	38.5	45.4
10 - 12	40.6	44.1	54.3	64.1	60.2	71.0
12 - 14	57.4	62.5	78.2	92.3	86.6	102
14 - 16	77.2	84.0	107	125	118	139
16 - 18	99.8	109	139	164	154	182

※ Product of the coating material is PVC, PP, PE and UV stabilized is optional.

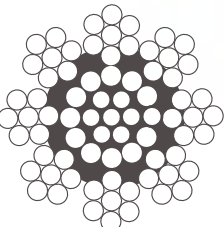
7x7 STAINLESS STEEL

EN 12385-4



NOMINAL DIA. (MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		AISI 304 GRADE 1770	AISI 316 GRADE 1570
1	0.4	0.69	0.61
1.5	0.86	1.55	1.37
2	1.54	2.75	2.44
2.5	2.4	4.29	3.81
3	3.46	6.18	5.48
4	6.14	11.0	9.75
5	9.60	17.2	15.2
6	13.8	24.7	21.9
7	18.8	33.7	29.8
8	24.6	40.7	36.1
10	38.4	6.5	56.4
12	55.3	91.5	81.2

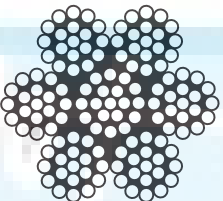
INNER CABLE FOR WINDOW REGULATOR



NOMINAL DIA.(MM)	CONSTRUCTION	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)
1.5	8X7+(1X19)	1.04	2.45
1.8	8X7+(1X19)	1.51	3.53
2.0	8X7+(1X19)	1.87	4.11
1.5	7X7	0.99	1.76
2.0	7X7	1.67	3.04

7x19 STAINLESS STEEL

EN 12385-4



NOMINAL DIA. (MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		AISI 304 GRADE 1770	AISI 316 GRADE 1570
2	1.60	2.56	2.27
2.5	2.40	4.00	3.55
3	3.40	5.77	5.12
4	6.10	10.3	9.09
5	9.50	16.0	14.2
6	13.8	23.1	20.5
7	18.7	31.4	27.8
8	24.3	41.0	36.4
10	38.1	64.1	56.8
12	54.8	92.3	81.8
14	74.6	126	111
16	97.4	164	146

STEEL WIRE ROPE

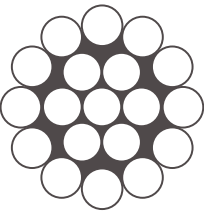
Millimeter in Diameter

STEEL WIRE ROPE

Millimeter in Diameter

1x19 STAINLESS STEEL

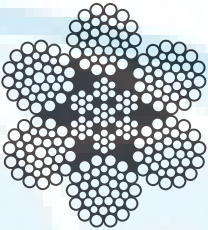
DIN 3053



NOMINAL DIA. (MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		AISI 304 GRADE 1770	AISI 316 GRADE 1570
1	0.50	0.93	0.82
1.5	1.11	2.09	1.85
2	1.98	3.72	3.30
2.5	3.10	5.81	5.15
3	4.46	8.36	7.42
4	7.93	14.9	13.2
5	12.4	23.2	20.6
6	17.8	33.5	30.0
7	24.3	45.5	40.4
8	21.7	59.5	52.8
10	49.5	93.0	82.5

6xWS36+IWRC STAINLESS STEEL

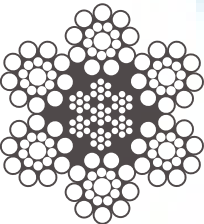
EN 12385-4



NOMINAL DIA. (MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		AISI 304 GRADE 1770	AISI 316 GRADE 1570
10	40.9	63.0	55.9
12	58.9	90.7	80.5
14	80.2	124	110
16	105	161	143
18	133	204	181
20	164	252	224
22	198	305	271
24	236	363	322
26	276	426	378
28	321	494	438

6xS19+IWRC STAINLESS STEEL

EN 12385-4



NOMINAL DIA. (MM)	WEIGHT (KG/100M)	MINIMUM BREAKING LOAD(KN)	
		AISI 304 GRADE 1770	AISI 316 GRADE 1570
10	42.6	63.0	55.9
11	51.6	76.2	67.6
12	61.3	90.7	80.5
13	72.0	106	94.5
14	83.5	124	110
16	109	161	143
18	138	204	181

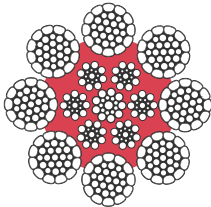
STEEL WIRE ROPE

Inch in Diameter

STEEL WIRE ROPE

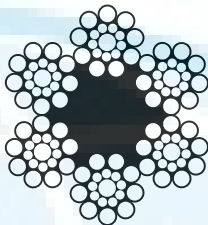
Inch in Diameter

8xKWS26+EPIWRC



NOMINAL DIA.(INCH)	WEIGHT (LB/FT)	MINIMUM BREAKING LOAD(LBS)	
		EPS	EEIPS
7/16	0.40	24,900	27,500
1/2	0.52	32,800	36,200
9/16	0.66	41,600	45,900
5/8	0.81	51,500	56,700
3/4	1.17	74,300	81,800
7/8	1.59	100,300	110,600
1	2.08	131,300	144,700
1 1/8	2.63	166,500	183,500
1 1/4	3.26	205,900	226,900

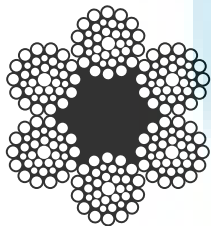
6xS19 / 6xFI25 / 6xWS26+FC / IWRC FS-RR-W-410 / API-9A



NOMINAL DIA. (INCH)	WEIGHT (LB/FT)		MINIMUM BREAKING LOAD(LBS)			
			IPS		EIPS	
	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE
1/4	0.11	0.12	5,480	5,880	6,020	6,800
5/16	0.16	0.18	8,520	9,160	9,380	10,540
3/8	0.24	0.26	12,200	13,120	13,420	15,100
7/16	0.32	0.35	16,540	17,780	18,200	20,400
1/2	0.42	0.46	21,400	23,000	23,600	26,600
9/16	0.53	0.58	27,000	29,000	29,800	33,600
5/8	0.66	0.72	33,400	35,400	36,800	41,200
3/4	0.95	1.04	47,600	51,200	52,400	58,800
7/8	1.29	1.41	64,400	69,200	70,800	79,600
1	1.68	1.85	83,600	89,800	92,000	103,400
1 1/8	2.13	2.34	105,200	113,000	115,800	130,000
1 1/4	2.63	2.89	129,200	138,800	142,200	159,800
1 3/8	3.18	3.49	155,400	167,000	171,000	192,000
1 1/2	3.78	4.16	184,000	197,800	202,000	228,000
1 5/8	4.44	4.88	214,000	230,000	236,000	264,000
1 3/4	5.15	5.66	248,000	266,000	272,000	306,000
1 7/8	5.91	6.49	282,000	304,000	310,000	348,000
2	6.73	7.39	320,000	344,000	352,000	396,000

6xWS36+FC / IWRC

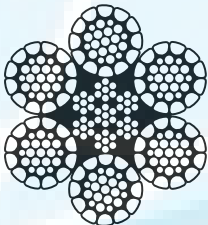
FS-RR-W-410 / API-9A



NOMINAL DIA. (INCH)	WEIGHT (LB/FT)		MINIMUM BREAKING LOAD(LBS)			
			IPS		EIPS	
	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE	FIBER CORE	STEEL CORE
1/4			5,480	5,880	6,020	6,800
5/16	0.16	0.18	8,520	9,160	9,380	10,540
3/8	0.24	0.26	12,200	13,120	13,428	15,100
7/16	0.32	0.35	16,540	17,780	18,200	20,400
1/2	0.42	0.46	21,400	23,000	23,600	26,600
9/16	0.53	0.58	27,000	29,000	29,800	33,600
5/8	0.66	0.72	33,400	35,400	36,800	41,200
3/4	0.95	1.04	47,600	51,200	52,400	58,800
7/8	1.29	1.41	64,400	69,200	70,800	79,600
1	1.68	1.85	83,600	89,800	92,000	103,400
1 1/8	2.13	2.34	105,200	113,000	115,800	130,000
1 1/4	2.63	2.89	129,200	138,800	142,200	159,800
1 3/8	3.18	3.49	155,400	167,000	171,000	192,000
1 1/2	3.78	4.16	184,000	197,800	202,000	228,000
1 5/8	4.44	4.88	214,000	230,000	236,000	264,000
1 3/4	5.15	5.66	248,000	266,000	272,000	306,000
1 7/8	5.91	6.49	282,000	304,000	310,000	348,000
2	6.73	7.39	320,000	344,000	352,000	396,000

6xWS36 COMPACTED

ASTM A1023



NOMINAL DIA.(INCH)	WEIGHT (LB/FT)	MINIMUM BREAKING LOAD(LBS)	
		EPS	EEIPS
3/8	0.28	16,600	18,260
7/16	0.38	22,400	24,600
1/2	0.50	29,200	32,200
9/16	0.63	37,000	40,800
5/8	0.78	45,400	50,000
3/4	1.13	64,800	71,200
7/8	1.53	87,600	96,400
1	2.00	113,800	125,200
1 1/8	2.54	143,000	157,400
1 1/4	3.13	175,800	193,400
1 3/8	3.79	212,000	234,000

STEEL WIRE ROPE

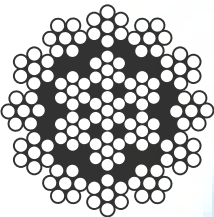
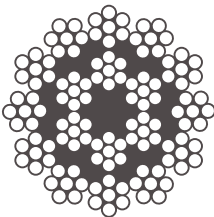
Inch in Diameter

STEEL WIRE ROPE

Inch in Diameter

18x7 / 19x7

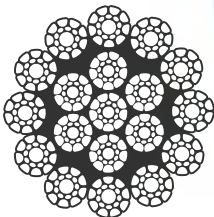
FS-RR-W-410 / API-9A



NOMINAL DIA. (INCH)	WEIGHT (LB/FT)		MINIMUM BREAKING LOAD(LBS)	
	FIBER CORE	STEEL CORE	IPS	EIPS
			FIBER OR STEEL CORE	
1/4	0.11	0.11	5,020	5,540
5/16	0.17	0.18	7,800	8,600
3/8	0.24	0.26	11,180	12,300
7/16	0.33	0.35	15,160	16,660
1/2	0.43	0.45	19,700	21,600
9/16	0.55	0.57	24,800	27,200
5/8	0.68	0.71	30,600	33,600
3/4	0.97	1.02	43,600	48,000
7/8	1.32	1.39	59,000	65,000
1	1.73	1.82	76,600	84,400
1 1/8	2.19	2.30	96,400	106,200
1 1/4	2.70	2.84	118,400	130,200

19xS19 COMPACTED

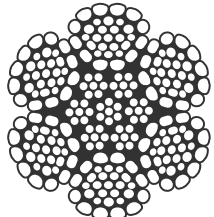
ASTM A1023



NOMINAL DIA.(INCH)	WEIGHT (LB/FT)	MINIMUM BREAKING LOAD(LBS)	
		EPS	EEIPS
5/8	0.86	41,200	45,400
3/4	1.24	58,800	64,800
7/8	1.69	79,600	87,600
1	2.21	103,400	113,800

6xWS26 / 6xS19+IWRC SWAGED

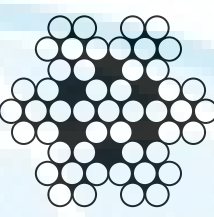
ASTM A1023



NOMINAL DIA.(INCH)	WEIGHT (LB/FT)	MINIMUM BREAKING LOAD(LBS)
1/2	0.55	31,000
9/16	0.7	39,200
5/8	0.87	48,400
3/4	1.25	69,800

7x7 GALVANIZED CABLE

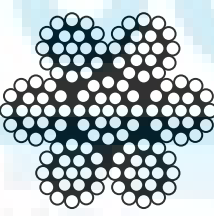
MIL DTS-83420



NOMINAL DIA.(INCH)	WEIGHT (LB/1000FT)	MINIMUM BREAKING LOAD (LBS)
1/16	7.50	480
5/64	11.0	660
3/32	16.0	920
1/8	28.0	1,700
5/32	43.0	2,600
3/16	62.0	3,700
7/32	83.0	4,800
1/4	106	6,100
9/32	134	7,400
5/16	167	9,200
3/8	236	13,100

7x19 GALVANIZED CABLE

MIL DTS-83420



NOMINAL DIA.(INCH)	WEIGHT (LB/1000FT)	MINIMUM BREAKING LOAD (LBS)
3/32	17.0	1,000
1/8	29.0	2,000
5/32	45.0	2,800
3/16	65.0	4,200
7/32	86.0	5,600
1/4	110	7,000
9/32	139	8,000
5/16	173	9,800
3/8	243	14,400

STEEL WIRE ROPE

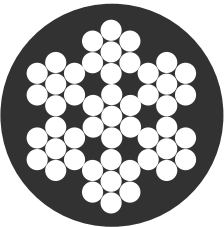
Inch in Diameter

STEEL WIRE ROPE

Inch in Diameter

7x7 GALVANIZED CABLE WITH COATING

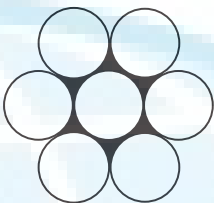
MIL DTS-83420



NOMINAL DIA.(INCH)	WEIGHT (LB/FT)	MINIMUM BREAKING LOAD (LBS)
1/16 - 3/32	1.09	480
1/16 - 1/8	1.51	480
3/32 - 1/8	2.13	920
3/32 - 3/16	3.31	920
1/8 - 3/16	4.17	1,900
3/16 - 1/4	8.29	3,700
1/4 - 5/16	13.5	6,100
5/16 - 3/8	20.5	9,200

1x7 GUY STRAND CLASS A

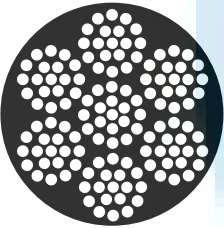
ASTM A 475



NOMINAL DIA.(INCH)	DIA OF WIRE (INCH)	WEIGHT (LB/FT)	MINIMUM BREAKING LOAD (LBS)
			EHS
7/32	0.07	98.0	5,400
1/4	0.08	121	6,650
9/32	0.09	164	8,950
5/16	0.10	205	11,200
3/8	0.12	273	15,400
7/16	0.15	399	20,800
1/2	0.17	517	26,900

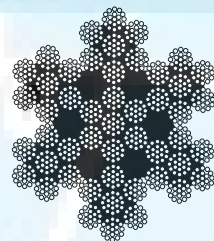
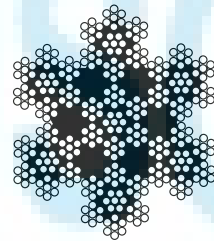
7x19 GALVANIZED CABLE WITH COATING

MIL DTS-83420



NOMINAL DIA.(INCH)	WEIGHT (LB/FT)	MINIMUM BREAKING LOAD (LBS)
3/32 - 1/8	2.23	1,000
3/32 - 3/16	3.41	1,000
1/8 - 3/16	4.27	2,000
3/16 - 1/4	8.59	4,200
1/4 - 5/16	13.9	7,000
5/16 - 3/8	21.1	9,800

CABLE LAID



NOMINAL DIA.(INCH)	WEIGHT(LB/FT)		MINIMUM BREAKING LOAD(LBS)	
	7X7X7	7X7X19	7X7X7	7X7X19
7/16	0.25	0.27	17,900	17,900
1/2	0.37	0.36	23,400	23,400
9/16	0.40	0.45	29,600	29,600
5/8	0.60	0.56	37,000	36,600
3/4	0.73	0.81	53,500	49,600
7/8	0.98	1.05	72,300	63,500
1	1.28	1.38	94,700	84,000

STEEL WIRE ROPE

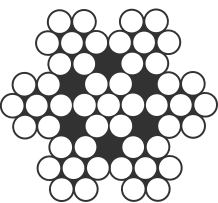
Inch in Diameter

STEEL WIRE ROPE

Inch in Diameter

7x7 STAINLESS STEEL

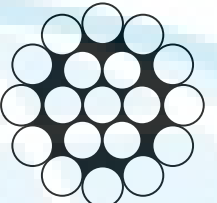
MIL DTL-83420



NOMINAL DIA.(INCH)	WEIGHT (LB/1000FT)	MINIMUM BREAKING LOAD (LBS)	
		AISI 304	AISI 316
3/64	4.20	280	240
1/16	7.50	480	420
5/64	11.0	660	580
3/32	16.0	920	820
1/8	28.0	1,760	1,560
5/32	43.0	2,400	2,140
3/16	62.0	3,700	3,300
7/32	83.0	5,000	4,460
1/4	106	6,400	5,700
9/32	134	7,800	6,940
5/16	167	9,000	8,020
3/8	236	12,000	10,680

1x19 STAINLESS STEEL

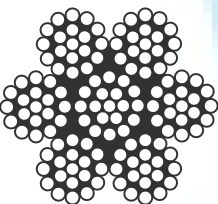
MIL DTL-87161



NOMINAL DIA.(INCH)	WEIGHT (LB/1000FT)	MINIMUM BREAKING LOAD (LBS)
		AISI 304
1/16	8.50	500
5/64	14.0	800
3/32	20.0	1,200
7/64	27.0	1,600
1/8	35.0	2,100
5/32	55.0	3,300
3/16	77.0	4,700
7/32	102	6,300
1/4	135	8,200
5/16	210	12500
3/8	300	17500

7x19 STAINLESS STEEL

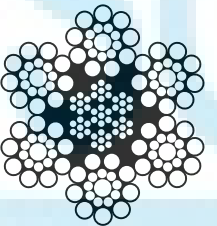
MIL DTL-83420



NOMINAL DIA.(INCH)	WEIGHT (LB/1000FT)	MINIMUM BREAKING LOAD (LBS)	
		AISI 304	AISI 316
3/64	4.20	280	240
1/16	7.50	480	420
5/64	11.0	660	580
3/32	16.0	920	820
1/8	28.0	1,760	1,560
5/32	43.0	2,400	2,140
3/16	62.0	3,700	3,300
7/32	83.0	5,000	4,460
1/4	106	6,400	5,700
9/32	134	7,800	6,940
5/16	167	9,000	8,020
3/8	236	12,000	10,680

6xS19+IWRC STAINLESS STEEL

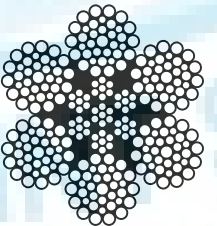
FS-RR-W-410



NOMINAL DIA.(INCH)	WEIGHT (LB/FT)	MINIMUM BREAKING LOAD (LBS)	
		AISI 304	AISI 316
3/8	0.26	11,980	10,660
7/16	0.35	16,300	14,520
1/2	0.46	22,800	20,300
9/16	0.58	28,500	25,380
5/8	0.72	35,000	31,160
3/4	1.04	49,600	44,140
7/8	1.41	66,500	59,200
1	1.85	85,400	76,000
1 1/8	2.34	106,400	94,700

6xWS36 STAINLESS STEEL

FS-RR-W-410



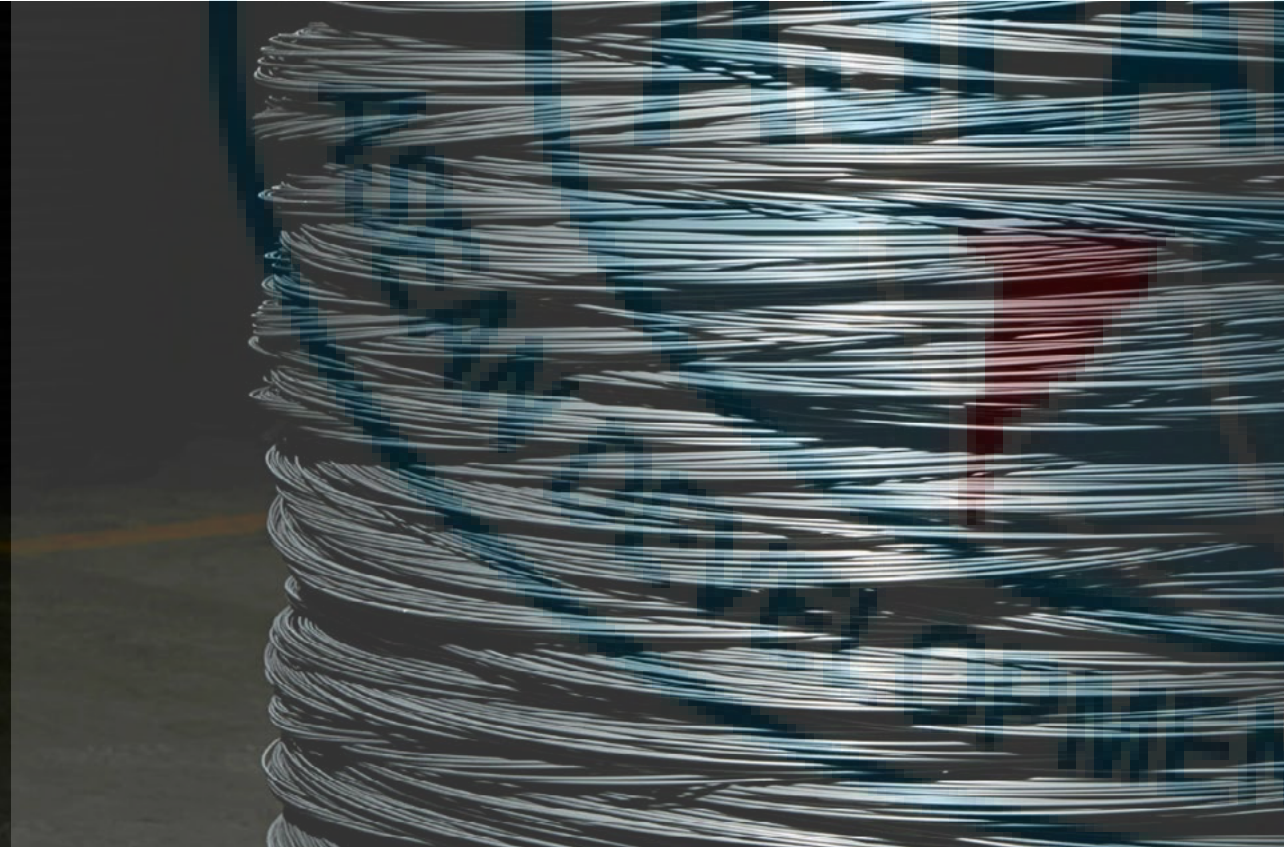
NOMINAL DIA.(INCH)	WEIGHT (LB/FT)	MINIMUM BREAKING LOAD (LBS)	
		AISI 304	AISI 316
3/8	0.26	11,980	10,660
7/16	0.35	16,300	14,520
1/2	0.46	22,800	20,300
9/16	0.58	28,500	25,380
5/8	0.72	35,000	31,160
3/4	1.04	49,600	44,140
7/8	1.41	66,500	59,200
1	1.85	85,400	76,000
1 1/8	2.34	106,400	94,700

WIRE

Hard Drawn Wire

CHEMICAL COMPOSITION

CLASSIFICATION	EN 10270-1 TYPE SL/SM/SH	ASTM A 227 CLASS I , II	JIS G 3521 SW-A/B/C
Carbon (C)	0.35 ~ 1.00	0.45 ~ 0.85	0.24 ~ 0.86
Manganese (Mn)	0.50 ~ 1.20	0.30 ~ 1.30	0.30 ~ 0.90
Phosphorus (P)	0.035Max	0.040Max	0.035Max
Sulfur (S)	0.035Max	0.050Max	0.035Max
Silicon (Si)	0.10 ~ 0.30	0.15 ~ 0.35	0.15 ~ 0.35
Cupper(Cu)	0.20Max	-	-



WIRE

Hard Drawn Wire

MECHANICAL PROPERTIES

EN 10270-1

NOMINAL DIA. (MM)	TENSILE STRENGTH (MPA)					
	SL		SM		SH	
	MIN	MAX	MIN	MAX	MIN	MAX
0.70	-	-	2090	2350	2330	2610
0.75	-	-	2070	2320	2310	2580
0.80	-	-	2050	2300	2290	2560
0.85	-	-	2030	2280	2270	2530
0.90	-	-	2010	2260	2250	2510
0.95	-	-	2000	2240	2230	2490
1.00	1720	1970	1980	2220	2210	2470
1.05	1710	1950	1960	2200	2200	2450
1.10	1690	1940	1950	2190	2170	2430
1.20	1670	1910	1920	2160	2150	2400
1.25	1660	1900	1910	2140	2140	2380
1.30	1640	1890	1900	2130	2110	2370
1.40	1620	1860	1870	2100	2090	2340
1.50	1600	1840	1850	2080	2060	2310
1.60	1590	1820	1830	2050	2040	2290
1.70	1570	1800	1810	2030	2020	2260
1.80	1550	1780	1790	2010	2000	2240
1.90	1540	1760	1770	1990	1980	2220
2.00	1520	1750	1760	1970	1970	2200
2.10	1510	1730	1740	1960	1940	2180
2.25	1490	1710	1720	1930	1920	2150
2.40	1470	1690	1700	1910	1900	2130
2.50	1460	1680	1690	1890	1890	2110
2.60	1450	1660	1670	1880	1860	2100
2.80	1420	1640	1650	1850	1840	2070
3.00	1410	1620	1630	1830	1820	2040
3.20	1390	1600	1610	1810	1790	2020
3.40	1370	1580	1590	1780	1770	1900
3.60	1350	1560	1570	1760	1750	1970
3.80	1340	1740	1550	1740	1740	1950
4.00	1320	1520	1530	1730	1710	1930
4.25	1310	1500	1510	1700	1690	1900
4.50	1290	1490	1500	1680	1680	1880
4.75	1270	1470	1480	1670	1660	1860
5.00	1260	1450	1460	1650	1640	1840
5.30	1240	1430	1440	1630	1620	1820
5.60	1230	1420	1430	1610	1590	1800
6.00	1210	1390	1400	1580	1570	1770

WIRE

Hard Drawn Wire

MECHANICAL PROPERTIES

ASTM A 227

NOMINAL DIA.		TENSILE STRENGTH (N/MM²)				TENSILE STRENGTH (KSI)			
		CLASS 1		CLASS 2		CLASS 1		CLASS 2	
INCH	MM	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
0.028	0.71	1830	2100	2100	2370	271	311	312	352
0.029	0.74	1830	2100	2100	2370	271	311	312	352
0.032	0.81	1800	2070	2070	2340	266	306	307	347
0.035	0.89	1800	2070	2070	2340	261	301	302	342
0.041	1.04	1740	2000	2000	2260	255	293	294	332
0.048	1.22	1670	1930	1930	2180	248	286	287	325
0.054	1.37	1670	1930	1930	2180	243	279	280	316
0.062	1.57	1640	1880	1880	2120	237	272	273	308
0.072	1.83	1580	1810	1810	2040	232	266	267	301
0.075	1.91	1580	1810	1810	2040	227	261	262	296
0.080	2.03	1550	1780	1780	2010	223	261	262	296
0.092	2.34	1510	1730	1730	1960	220	253	254	287
0.106	2.69	1480	1700	1700	1920	216	248	249	281
0.120	3.05	1460	1680	1680	1900	210	241	242	273
0.135	3.43	1420	1630	1630	1840	206	237	238	269
0.148	3.76	1380	1590	1590	1700	203	234	235	266
0.162	4.11	1380	1590	1590	1700	200	230	231	261
0.177	4.5	1350	1550	1550	1750	195	225	226	256
0.192	4.88	1320	1510	1510	1700	192	221	222	251
0.207	5.26	1300	1490	1490	1670	190	218	219	247
0.225	5.72	1280	1470	1470	1650	185	214	215	243

WIRE

Hard Drawn Wire

MECHANICAL PROPERTIES

JIS G 3521

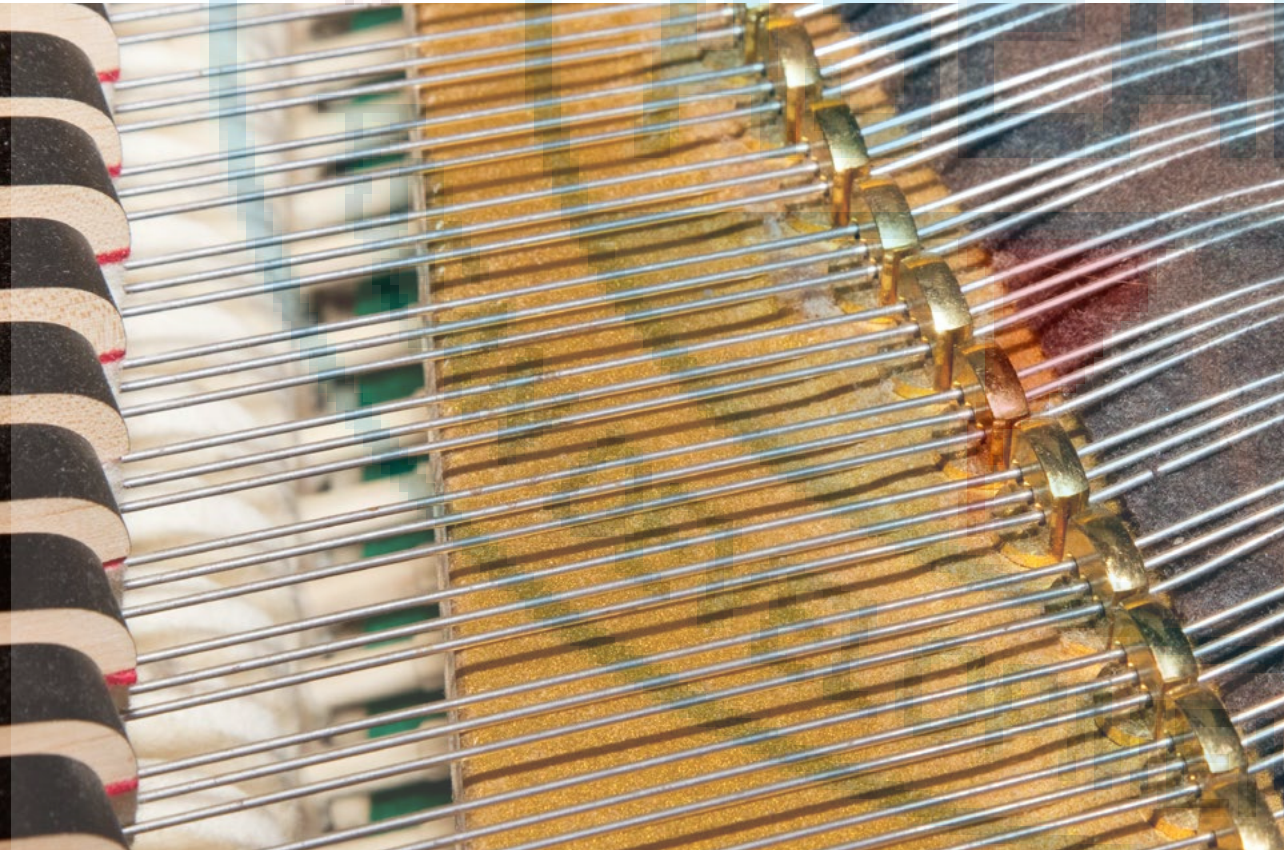
NOMINAL DIA. (MM)	TENSILE STRENGTH											
	SWA				SWB				SWC			
	(N/MM²)		(KGF/MM²)		(N/MM²)		(KGF/MM²)		(N/MM²)		(KGF/MM²)	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
0.70	1520	1770	155	181	1770	2060	181	210	2060	2350	210	240
0.80	1520	1770	155	181	1770	2010	181	205	2010	2300	205	235
0.90	1520	1770	155	181	1770	2010	181	205	2010	2260	205	231
1.00	1470	1720	150	176	1720	1960	176	200	1960	2210	200	226
1.20	1420	1670	145	170	1670	1910	170	195	1910	2160	195	220
1.40	1370	1620	140	165	1620	1860	165	190	1860	2110	190	215
1.60	1320	1570	135	160	1570	1810	160	185	1810	2060	185	210
1.80	1270	1520	130	155	1520	1770	155	181	1770	2010	181	205
2.00	1270	1470	130	150	1470	1720	150	176	1720	1960	176	200
2.30	1230	1420	126	145	1420	1670	145	170	1670	1910	170	195
2.60	1230	1420	126	145	1420	1670	145	170	1670	1910	170	195
2.90	1180	1370	120	140	1370	1620	140	165	1620	1860	165	190
3.20	1180	1370	120	140	1370	1570	140	160	1570	1810	160	185
3.50	1180	1370	120	140	1370	1570	140	160	1570	1770	160	181
4.00	1180	1370	120	140	1370	1570	140	160	1570	1770	160	181
4.50	1130	1320	115	135	1320	1520	135	155	1520	1720	155	176
5.00	1130	1320	115	135	1320	1520	135	155	1520	1720	155	176
5.50	1080	1270	110	130	1270	1470	130	150	1470	1670	150	170
6.00	1030	1230	105	126	1230	1420	126	145	1420	1620	145	165

WIRE

Music Wire

CHEMICAL COMPOSITION

CLASSIFICATION	EN 10270-1 SH/DH	ASTM A228	JIS G 3522 SWP-A/B
Carbon (C)	0.6 ~ 0.95	0.7 ~ 1.0	0.45 ~ 1.0
Manganese (Mn)	0.3 ~ 0.9	0.2 ~ 0.7	0.50 ~ 1.20
Phosphorus (P)	0.025MAX	0.025MAX	0.02MAX
Sulfur (S)	0.0255MAX	0.030MAX	0.025MAX
Silicon (Si)	0.12 ~ 0.32	0.10 ~ 0.30	0.10 ~ 0.30
Copper(Cu)	0.2MAX	-	0.12MAX



WIRE

Music Wire

MECHANICAL PROPERTIES

EN 10270-1

NOMINAL DIA. (MM)	TENSILE STRENGTH (MPA=N/MM²)			
	DM		DH	
	MIN	MAX	MIN	MAX
0.70	2090	2350	2360	2610
0.75	2070	2320	2330	2580
0.80	2050	2300	2310	2560
0.85	2030	2280	2290	2530
0.90	2010	2260	2270	2510
0.95	2000	2240	2250	2490
1.00	1980	2220	2230	2470
1.05	1960	2200	2210	2450
1.10	1950	2190	2200	2430
1.20	1920	2160	2170	2400
1.25	1910	2140	2150	2380
1.30	1900	2130	2140	2370
1.40	1870	2100	2110	2340
1.50	1850	2080	2090	2310
1.60	1830	2050	2060	2290
1.70	1810	2030	2040	2260
1.80	1790	2010	2020	2240
1.90	1770	1990	2000	2220
2.00	1760	1970	1980	2200
2.10	1740	1960	1970	2180
2.25	1720	1930	1940	2150
2.40	1700	1910	1920	2130
2.50	1690	1890	1900	2110
2.60	1670	1880	1890	2100
2.80	1650	1850	1860	2070
3.00	1630	1830	1840	2040
3.20	1610	1810	1820	2020
3.40	1590	1780	1790	1990
3.60	1570	1760	1770	1970
3.80	1550	1740	1750	1950
4.00	1530	1730	1740	1930
4.25	1510	1700	1710	1900
4.50	1500	1680	1690	1880
4.75	1480	1670	1680	1860
5.00	1460	1650	1660	1840
5.30	1440	1630	1640	1820
5.60	1430	1610	1620	1800
6.00	1400	1580	1590	1770

WIRE

Music Wire

MECHANICAL PROPERTIES

ASTM A 228

NOMINAL DIA.(INCH)	TENSILE STRENGTH (KPSI)	
	MIN	MAX
0.028	333	368
0.030	330	365
0.032	327	361
0.034	324	358
0.036	321	355
0.038	318	352
0.040	315	349
0.042	313	346
0.045	309	342
0.048	306	339
0.051	303	335
0.052	302	333
0.055	100	331
0.059	296	327
0.063	293	324
0.067	290	321
0.072	287	317
0.076	284	314
0.079	283	313
0.080	282	312
0.085	279	308
0.090	276	305
0.095	274	303
0.100	271	300
0.102	270	299
0.107	268	296
0.110	267	295
0.112	266	294
0.121	263	290
0.125	261	288
0.130	259	286
0.135	258	285
0.138	256	283
0.140	256	283
0.145	254	281
0.150	253	279
0.156	251	277
0.162	249	275
0.177	245	270
0.192	241	267
0.207	238	264
0.225	235	260
0.250	230	255

WIRE

Music Wire

MECHANICAL PROPERTIES

JIS G 3522

NOMINAL DIA. (MM)	TENSILE STRENGTH							
	SWP-A				SWP-B			
	(N/MM ²)		(KGF/MM ²)		(N/MM ²)		(KGF/MM ²)	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
0.70	2160	2400	220	245	2400	2650	245	270
0.80	2110	2350	215	240	2350	2600	240	265
0.90	2110	2300	215	235	2300	2500	235	255
1.00	2060	2260	210	231	2260	2450	231	250
1.20	2010	2210	205	226	2210	2400	226	245
1.40	1960	2160	200	220	2160	2350	220	240
1.60	1910	2110	195	215	2110	2300	215	235
1.80	1860	2060	190	210	2060	2260	210	231
2.00	1810	2010	185	205	2010	2210	205	226
2.30	1770	1960	181	200	1960	2160	200	220
2.60	1770	1960	181	200	1960	2160	200	220
2.90	1720	1910	176	195	1910	2110	195	215
3.00	1670	1860	170	190	1860	2060	190	210
3.20	1670	1860	170	190	1860	2060	190	210
3.50	1670	1810	170	185	1810	1960	185	200
4.00	1670	1810	170	185	1810	1960	185	200
4.50	1620	1770	165	181	1770	1910	181	195
5.00	1620	1770	165	181	1770	1910	181	195
5.50	1570	1710	160	174	1710	1860	174	190
6.00	1520	1670	155	170	1670	1810	170	185

WIRE

Stainless Steel Wire

SURFACE FINISH

TYPE	SYMBOL	GRADE	DIA.(MM)	APPLICATIONS
S-Co	WPA	AISI 304, 316	0.70 ~ 6.50	General Purpose Spring
	WPB, NS	AISI 302, 304		
	HS	AISI 302, 302H	0.70 ~ 6.00	High Tensile Spring
Bright	WPA	AISI 304, 316	0.70 ~ 5.00	Precision Spring with bright surface
	WPB, NS	AISI 302, 304		
	HS	AISI 302, 302H		

STANDARD DETAIL

GRADE	JIS	ASTM A 580, A313	EN 10088-1, 10270-3	
	JIS G 4308, 4314	TYPE	NUMBER	NAME
302	SUS302	T-302	1.4310	X10CrNi18-8
304	SUS304	T-304	1.4301	X5CrNi18-10
Bright	HS	AISI 302, 302H	1.4306	X2CrNi19-11
	WPA	AISI 304, 316	1.4307	X2CrNi18-9
316	SUS316	T-316	1.4401	X5CrNiMo17-12-2
316L	SUS316L	T-316L	1.4404	X2CrNiMo17-12-2

WIRE

Stainless Steel Wire

MECHANICAL PROPERTIES

EN 10270-3

NOMINAL DIA.(MM)		DIA TOL. (MM)		1.4310				1.4301				1.4401	
				NORMAL TENSILE STRENGTH(NS)		HIGH TENSILE STRENGTH(HS)		NORMAL TENSILE STRENGTH(NS)		HIGH TENSILE STRENGTH(HS)		MIN.	MAX.
OVER	INCLUDE	T14	T15	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX		
0.70	0.80	±0.010	±0.008	1950	2250	2100	2420	1800	2070	1850	2070	1600	1840
0.80	1.00			1900	2190	2050	2360	1775	2050	1850	2050	1575	1820
1.00	1.25			1850	2130	2000	2300	1725	1990	1750	1990	1550	1790
1.25	1.50			1800	2070	1950	2250	1675	1930	1750	1930	1500	1730
1.50	1.60	±0.015	±0.010	1750	2020	1900	2190	1625	1870	1650	1870	1450	1670
1.60	1.75			1750	2020	1900	2190	1625	1870	1650	1870	1450	1670
1.75	2.00			1700	1960	1850	2130	1575	1820	1650	1820	1400	1610
2.00	2.25			1650	1900	1750	2020	1525	1760	1550	1760	1350	1560
2.25	2.50	±0.020	±0.015	1650	1900	1750	2020	1525	1760	1550	1760	1350	1560
2.50	3.00			1600	1840	1700	1960	1475	1700	1550	1700	1300	1500
3.00	3.19			1550	1790	1650	1900	1425	1640	1450	1640	1250	1440
3.19	3.50			1550	1790	1650	1900	1425	1640	1450	1640	1250	1440
3.50	4.00	±0.025	±0.020	1500	1730	1600	1840	1400	1610	1450	1610	1225	1410
4.00	4.25			1500	1730	1600	1840	1400	1610	1450	1610	1225	1410
4.25	4.50			1450	1670	1550	1790	1350	1560	1350	1560	1200	1380
4.50	5.00			1450	1670	1550	1790	1350	1560	1350	1560	1200	1380
5.00	6.00			1400	1610	1500	1730	1300	1500	1350	1500	1150	1330

WIRE
Stainless Steel Wire

MECHANICAL PROPERTIES

ASTM A 313-TYPE 302 and 304

NOMINAL DIA. (INCH)			BEND TEST	TENSILE STRENGTH(KSI)	
OVER	INCLUDE	DIA TOL.	MIN. NO. OF BENS	MIN	MAX
0.028	0.031	±0.0005	8	285	315
0.031	0.033		8	282	310
0.033	0.034		8	282	310
0.034	0.037		8	280	308
0.037	0.041	±0.0008	8	275	304
0.041	0.044		8	275	304
0.044	0.045		8	272	300
0.045	0.050		8	267	295
0.050	0.054		8	265	293
0.054	0.058		7	261	289
0.058	0.063		7	258	285
0.063	0.070		7	252	281
0.070	0.075		7	250	278
0.075	0.080		7	246	275
0.080	0.087		7	242	271
0.087	0.095		7	238	268
0.095	0.105	±0.001	5	232	262
0.105	0.115		5	227	257
0.115	0.125		5	222	253
0.125	0.135		3	217	248
0.135	0.148		3	210	241
0.148	0.162		3	205	235
0.162	0.177		3	198	228
0.177	0.192		1	194	225
0.192	0.207		1	188	220
0.207	0.225		1	182	214

WIRE
Stainless Steel Wire

MECHANICAL PROPERTIES

JIS G4308/4314

NOMINAL DIA.(MM)	DIA TOL. (MM)	1.4310		
		CLASS A	CLASS B	CLASS C
		SUS 304-WPA SUS 316-WPA	SUS 302-WPB SUS 304-WPB	SUS 631J1-WPC
0.70	±0.010	1530 ~ 1780	1850 ~ 2100	1800 ~ 2050
0.80				
0.90				
1.00				
1.20	±0.015	1450 ~ 1700	1750 ~ 2000	1700 ~ 1950
1.40				
1.60				
1.80				
2.00	±0.020	1400 ~ 1650	1650 ~ 1900	1600 ~ 1850
2.30				
2.60				
2.90				
3.20		1320 ~ 1570	1550 ~ 1800	1500 ~ 1750
3.50				
4.00				
4.50				
5.00	±0.035	1230 ~ 1480	1450 ~ 1700	1400 ~ 1650
5.50				
6.00				

WIRE
PACKING

SPOOL

NOMINAL DIA. (MM)	PACKING (F x B x W)	APP.W/T (KG)
0.70 ~ 0.80	SH460	35
	560 (Steel & Wooden) Reel	100
0.65 ~ 1.90	760 (Steel & Wooden) Reel	350
1.91 ~ 4.20	760 x 400 x 350 (Wooden Reel)	300
		400
1.50 ~ 4.20	Z2 Coil	400 ~ 500

COIL

NOMINAL DIA. (MM)	COIL I.D (INCH)	APP.W/T (KG)
0.70 ~ 0.80	14,16	30 ~40
0.80 ~ 0.90	14,16	40 ~ 70
0.90 over ~ 1.00	14, 16	50 ~ 100
1.40 over ~ 1.90	22 / 24	50 ~ 200
1.90 over ~ 2.30	24	100 ~ 200
2.30 over ~ 3.20	24	100 ~ 200
3.20 over ~ 6.50	24, 30	200 ~ 500

WIRE
PACKING

CARRIER

NOMINAL DIA. (MM)	COIL I.D (INCH)	APP.W/T (KG)
1.50 ~ 1.90	22, 24	500 ~ 1000
1.91 ~ 3.20	24	500 ~ 1000
3.21 ~ 6.50	30	500 ~ 1000

CAST & HELIX

NOMINAL DIA. (MM)	COIL I.D (INCH)	CAST (MM)	HELIX (MM)
0.7 ~ 1.3	14, 16	300 ~ 450	30 under
1.4 ~ 1.99	22, 24	500 ~ 700	50 under
2.00 ~ 3.10	24	600 ~ 900	60 under
3.11 ~ 6.50	30	760 ~ 1150	100 under

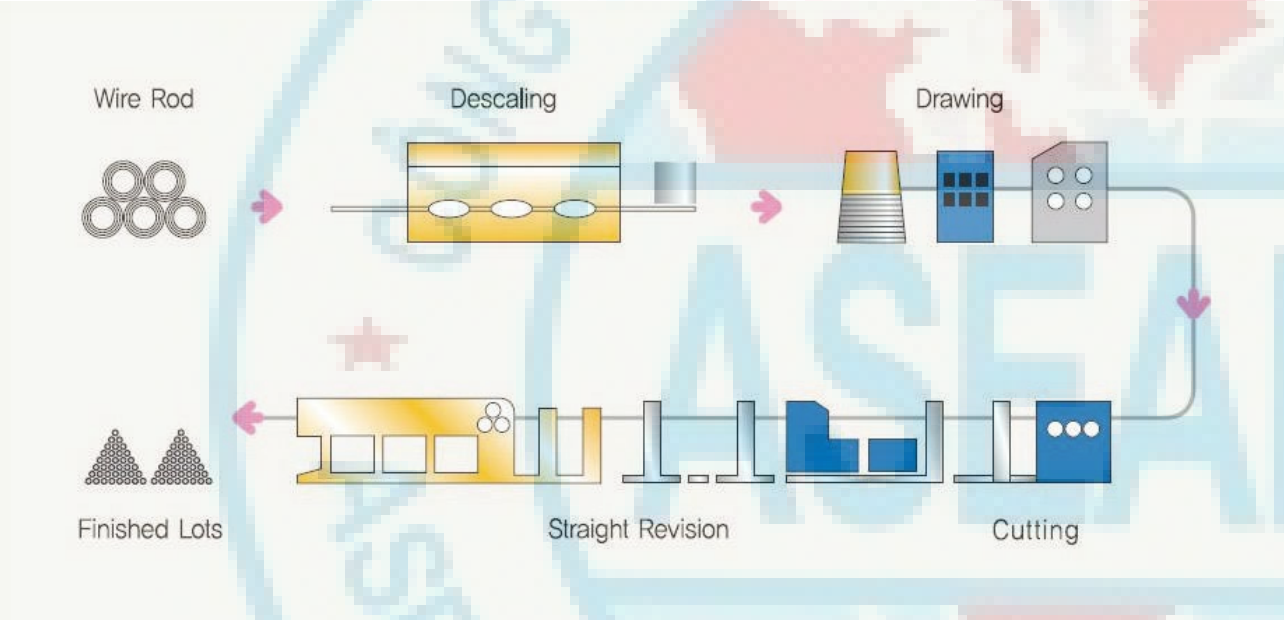
COLD DRAWN STEEL BAR

PRODUCT DETAILS AND APPLICATION

The Cold drawn steel bar refers to a bar-shaped product that is produced by drawing and straightening steel rods and cutting them into certain lengths. It is used mainly as machine parts and electronics materials. And Cold drawn bar is superior to hot rolled bar in terms of surface roughness, precision, and straightness and is used for the manufacture of automotive parts and electronic goods.

MANUFACTURING PROCESS

• PRODUCTION PROCESS



PRODUCTION RANGE

• PRODUCT RANGE

FORMS OF SUPPLY	SIZE	LENGTH	MATERIAL
Round	6 ~ 100mm	2 ~ 6m	Carbon Steel /Stainless Steel
Hexagonal	8 ~ 60mm	2 ~ 6m	
Square	6 ~ 60mm	2 ~ 6m	

• TOLERANCE BY CATEGORY

DIAMETER	TOLERANCE	H8	H9	H10	H11
over 3mm ~ below6mm		-0.018	-0.03	-0.04	-0.075
6mm ~ 10mm		-0.022	-0.036	-0.05	-0.09
10mm ~ 18mm		-0.027	-0.043	-0.07	-0.11
18mm ~ 30mm		-0.033	-0.052	-0.084	-0.13
30mm ~ 50mm		-0.039	-0.062	-0.1	-0.16
50mm ~ 80mm		-0.046	-0.074	-0.12	-0.19
80mm ~ 120mm		-0.054	-0.087	-0.14	-0.22

COLD DRAWN STEEL BAR

QUALITY CHARACTERISTICS ACCORDING TO THE STEEL GRADE

• Classification by chemical composition

	SPECIFICATION			CHEMICAL COMPOSITION (%)						
	KS	JIS	SAE	C	Si	Mn	P	S	Ni	Cr
Carbon steel	SM10C	S10C	1010	0.08~0.13	0.15-0.35	0.03~0.60	0.030 max	0.035 max	-	-
	SM15C	S15C	1015	0.13~0.18	0.15-0.35	0.03~0.60	0.030 max	0.035 max	-	-
	SM18C	S18C	1018	0.15~0.20	0.15-0.35	0.03~0.60	0.030 max	0.035 max	-	-
	SM20C	S20C	1020	0.18~0.23	0.15-0.35	0.03~0.60	0.030 max	0.035 max	-	-
	SM22C	S22C	1022	0.20-0.25	0.15-0.35	0.03~0.60	0.030 max	0.035 max	-	-
	SM25C	S25C	1025	0.22~0.28	0.15-0.35	0.03~0.60	0.030 max	0.035 max	-	-
	SM35C	S35C	1035	0.35~0.38	0.15-0.35	0.06~0.90	0.030 max	0.035 max	-	-
	SM38C	S38C	1038	0.35~0.41	0.15-0.35	0.06~0.90	0.030 max	0.035 max	-	-
	SM40C	S40C	1040	0.37~0.43	0.15-0.35	0.06~0.90	0.030 max	0.035 max	-	-
	SM45C	S45C	1045	0.42~0.48	0.15-0.35	0.06~0.90	0.030 max	0.035 max	-	-
Stainless steel	SM48C	S48C	1049	0.45-0.51	0.15-0.35	0.06~0.90	0.030 max	0.035 max	-	-
	SM50C	S50C	1050	0.48~0.53	0.15-0.35	0.06~0.90	0.030 max	0.035 max	-	-
	SM55C	S55C	1055	0.52-0.58	0.15-0.35	0.06~0.90	0.030 max	0.035 max	-	-
	SM58C	S58C	1060	0.55~0.65	0.15-0.35	0.06~0.90	0.030 max	0.035 max	-	-
	STS304	SUS304	-	0.08 max	1.00 max	2.00 max	0.045 max	0.030 max	8.0~10.5	8.0~20.0
	STS316	SUS316	-	0.08 max	1.00 max	2.00 max	0.045 max	0.030 max	10.0~14.0	18.0~20.0