KÖŞKERLER®

ÇELİK HALAT ve MAK. SAN. TİC. A.Ş.



STEEL WIREROPES

SINCE 1989



KÖŞKERLER®

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KÖŞKERLER®

ÇELİK HALAT ve MAK. SAN. TİC. A.Ş.

Köşkerler Çelik Halat ve Makina San. Tic. A.Ş. started their production in 1989. We are currently operating our business in Kocaeli Dilovası İMES Organized Industrial Zone in an enclosed area of 17.000 m² and total area of 24.000 m²

Elevator ropes, crane ropes, marine ropes and other various ropes used in automotive, cable and other sectors are manufactured in our facility.

We, as Köşkerler Çelik Halat ve Makina San. Tic. A.Ş., have succeeded to put the company over the top of quality by making innovations on a continuous basis over 20 years.

Furthermore, we have taken research and development as a principle and are constantly trying to renew the process in terms of technological production and products by means of R&D activities.

We experience the pride of gaining the trust of our customers in our products. We have gained this success thanks to the strict commitment to honesty, dynamism, quality and customer-oriented principles.

Köşkerler Çelik Halat is a company which always follows innovations and changes, has an environmetal attitude, is aware of its social responsibilities and grows in a planned way and develops fast.



KÖŞKERLER®

ÇELİK HALAT ve MAK. SAN. TİC. A.Ş.

AUTOMOTIVEROPES



- High resistance to corrosion
- Should have high yield strength

MARINEROPES



- High resistance to corrosion
- Should be flexible
- High resistance to fatigue

ELEVATORROPES



- High resistance to fatigue
- High resistance to abrasion
- No elongation

CRANEROPES



- Resistant to abrasion
- Resistant to fatigue
- Resistant to rotating

KÖŞKERLER®

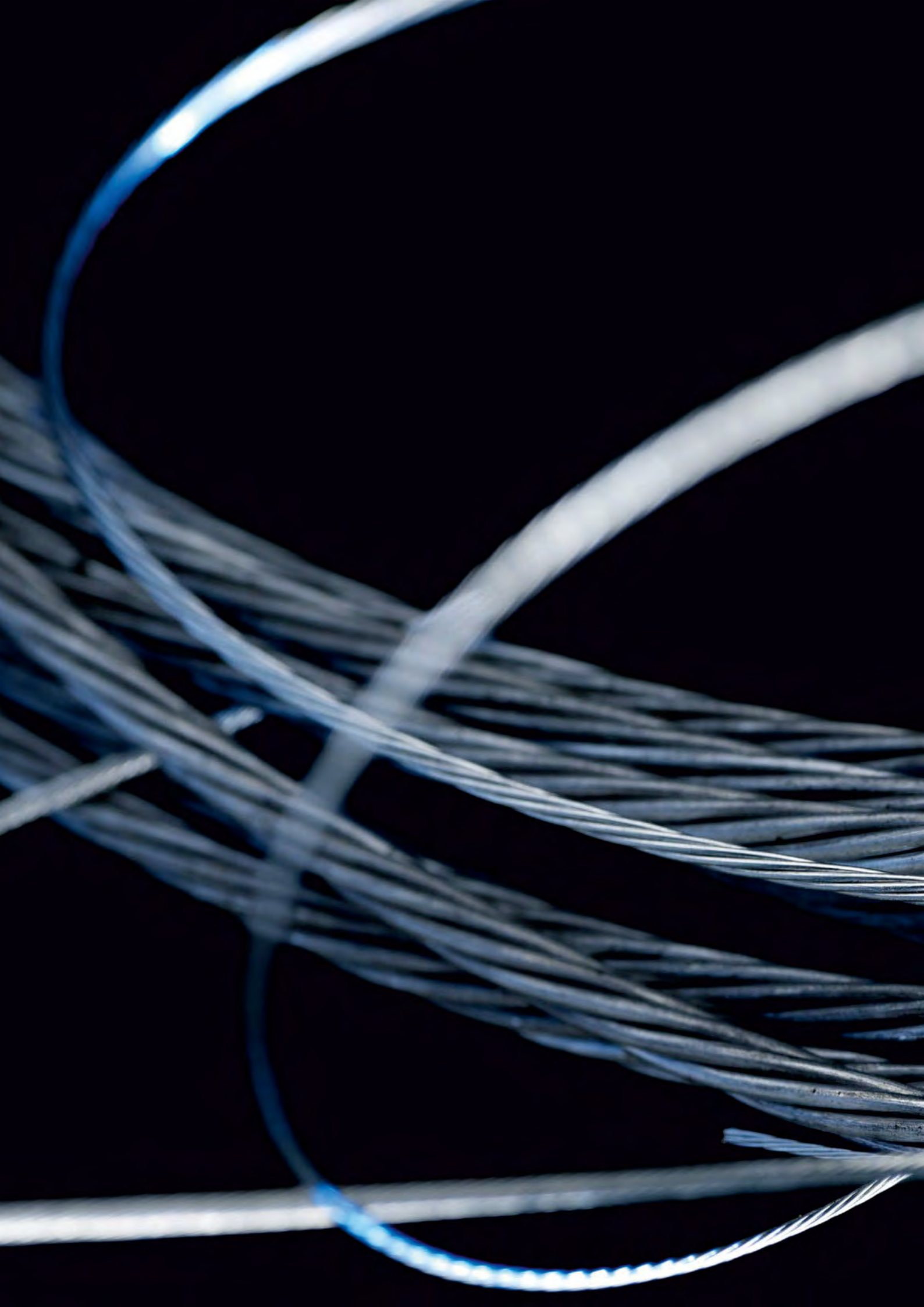
ÇELİK HALAT ve MAK. SAN. TİC. A.Ş.







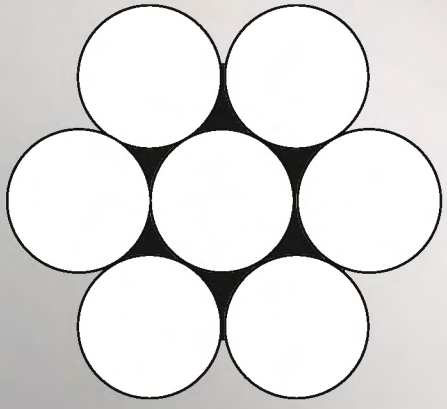






KÖŞKERLER® ÇELİK HALAT ve MAK. SAN. TİC. A.Ş.

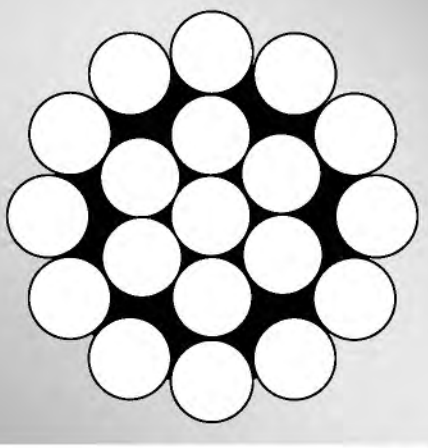
MONOTORONROPES



MONOTORON ROPES

1X7=1X(1+6)

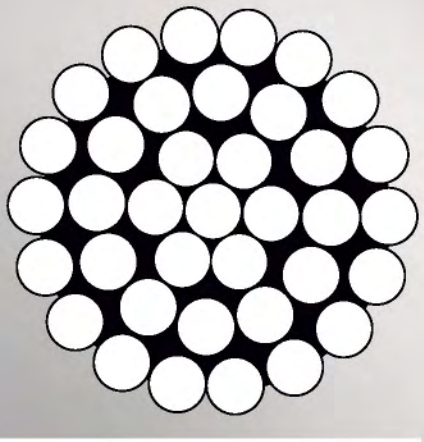
EN 12385-4 DIN 3052						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1180 N/mm²	120 kg/mm²	1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN				
0.66	0.002	0.28		0.37		0.42
0.8	0.003	0.41		0.55		0.62
0.9	0.004	0.51		0.69		0.78
1	0.005	0.65		0.86		0.96
1.2	0.007	0.93		1.23		1.40
1.5	0.011	1.50		1.93		2.17
1.8	0.016	2.10		2.77		3.13
2	0.020	2.60		3.50		3.90
2.5	0.031	4.10		5.40		6.10
3	0.045	5.90		7.80		8.80
3.5	0.061	8.00		10.6		12.0
4	0.080	10.4		13.8		15.7
4.5	0.101	13.2		17.5		19.8
5	0.125	16.3		21.6		24.5
5.5	0.151	19.7		26.1		29.6
6	0.180	23.5		31.1		35.2
6.5	0.211	27.6		36.4		41.4
7	0.245	32.0		42.0		48.0
7.5	0.281	36.7		48.5		55.1
8	0.320	41.8		55.2		62.6
8.5	0.361	47.1		62.3		70.7
9	0.405	52.9		69.9		79.3
9.5	0.451	58.9		77.9		88.3
10	0.500	65.3		86.3		97.9
10.5	0.551	71.9		95.1		108
11	0.605	79.0		104		118
11.5	0.661	86.3		114		129
12	0.720	94.0		124		141



MONOTORON ROPES

1X19=1X(1+6+12)

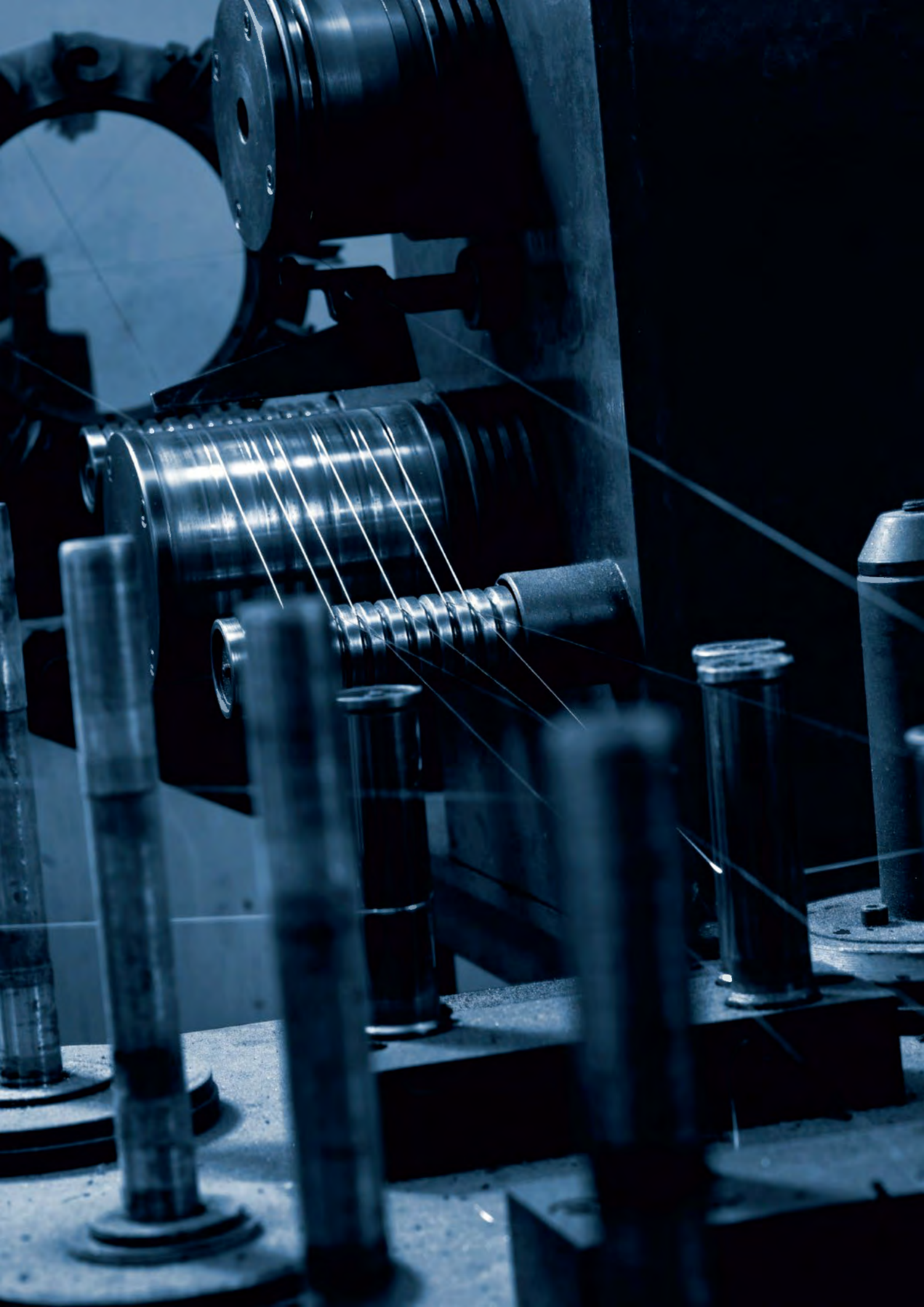
EN 12385-4 DIN 3053						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1180 N/mm²	120 kg/mm²	1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN					
1.5	0.011	1.40		1.85		2.10	
1.8	0.016	2.02		2.67		3.01	
2	0.020	2.50		3.30		3.80	
2.5	0.031	3.90		5.20		5.90	
3	0.045	5.70		7.50		8.50	
3.5	0.061	7.70		10.2		11.6	
4	0.080	10.1		13.3		15.1	
4.5	0.101	12.8		16.9		19.1	
5	0.125	15.8		20.8		23.6	
5.5	0.151	19.1		25.2		28.6	
6	0.180	22.7		30.0		34.0	
6.5	0.211	26.6		35.2		39.9	
7	0.245	30.9		40.8		46.3	
7.5	0.281	35.4		46.9		53.2	
8	0.320	40.3		53.3		60.5	
8.5	0.361	45.5		60.2		68.3	
9	0.405	51.0		67.5		76.6	
9.5	0.451	56.9		75.2		85.3	
10	0.500	63.0		83.3		94.5	
11	0.605	76.2		101		104	
12	0.720	90.7		120		136	
13	0.845	106		141		160	
14	0.980	124		163		185	
15	1.125	142		187		213	
16	1.280	161		213		242	
17	1.445	182		241		273	
18	1.620	204		270		306	



MONOTORON ROPES

1X37=1X(1+6+12+18)

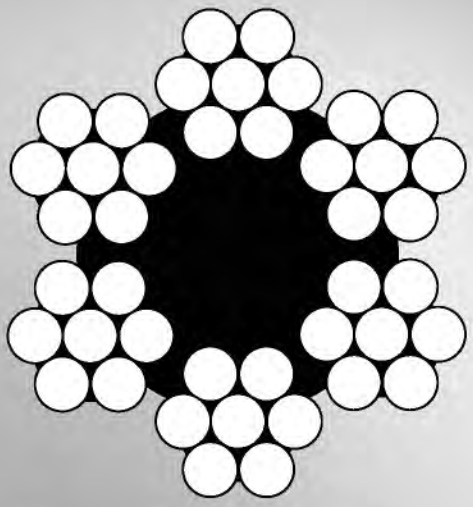
EN 12385-4 DIN 3054						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1180 N/mm²	120 kg/mm²	1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN				
3	0.045	7.50		10.0		11.3
4	0.080	9.80		13.0		14.8
4.5	0.101	12.4		16.5		18.7
5	0.125	15.4		20.3		23.1
5.5	0.151	18.6		24.6		27.9
6	0.180	22.1		29.3		33.2
6.5	0.211	26.0		34.3		39.0
7	0.245	30.1		39.8		45.2
7.5	0.281	34.6		45.7		51.9
8	0.320	39.3		52.0		59.0
8.5	0.361	44.4		58.7		66.6
9	0.405	49.8		65.8		74.7
9.5	0.451	54.6		72.7		82.0
10	0.500	60.5		80.5		90.8
11	0.605	73.2		97.5		109.9
12	0.720	87.2		116.0		130.8
13	0.845	102.3		136.1		153.5
14	0.980	118.6		157.9		178.0
15	1.125	136.2		181.2		204.3
16	1.280	155.0		206.2		232.5
17	1.445	174.9		232.8		262.4
18	1.620	196.1		261.0		294.2
19	1.805	218.5		290.8		327.8
20	2.000	242.1		322.2		363.2
21	2.205	267.0		355.2		400.4
22	2.420	293.0		389.8		439.5
23	2.645	320.2		426.1		480.3
24	2.880	348.7		463.9		523.0





KÖŞKERLER® ÇELİK HALAT ve MAK. SAN. TİC. A.Ş.

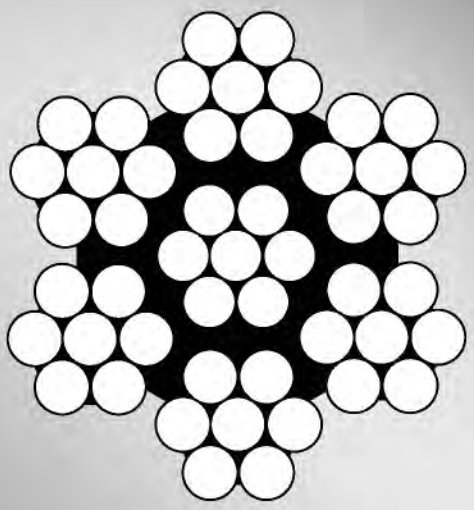
STEEL WIREROPES



STEEL WIRE ROPES

6X7=6X(1+6) FC

EN 12385-4 DIN 3055						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
2	0.014	2.35		2.60		2.87
3	0.031	5.29		5.86		6.45
4	0.055	9.40		10.4		11.5
5	0.086	14.7		16.3		17.9
6	0.124	21.2		23.4		25.8
7	0.169	28.8		31.9		35.1
8	0.221	37.6		41.6		45.9
9	0.279	47.6		52.7		58.1
10	0.345	58.8		65.1		71.7
11	0.417	71.1		78.7		86.8
12	0.497	84.6		93.7		103
13	0.583	99.3		110		121
14	0.676	115		128		141
15	0.776	132		146		161
16	0.883	150		167		184
17	0.997	170		188		207
18	1.118	190		211		232
19	1.245	212		235		259
20	1.380	235		260		287

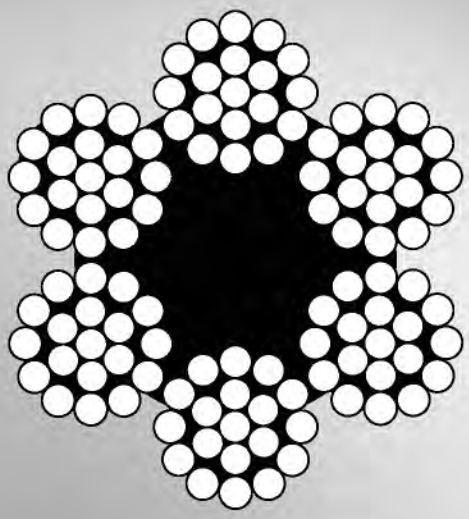


STEEL WIRE ROPES

6X7=6X(1+6) WSC

EN 12385-4 DIN 3055						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
2	0.015	2.54		2.81		3.10
3	0.035	5.72		6.33		6.98
4	0.062	10.2		11.3		12.4
5	0.096	15.9		17.6		19.4
6	0.138	22.9		25.3		27.9
7	0.188	31.1		34.5		38.0
8	0.246	40.7		45.0		49.6
9	0.311	51.5		57.0		62.8
10	0.384	63.5		70.4		77.5
11	0.465	76.9		85.1		93.8
12	0.553	91.5		101		112
13	0.649	107		119		131
14	0.753	125		138		152
15	0.864	143		158		174
16	0.983	163		180		199
17	1,110	184		203		224
18	1,244	206		228		251
19	1,386	229		254		280
20	1,536	254		281		310

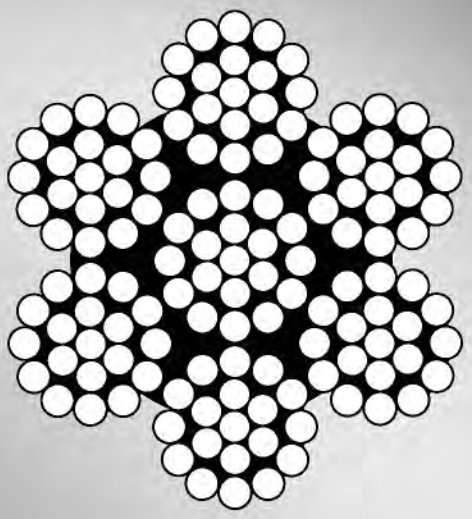




STEEL WIRE ROPES

6X19M=6X(1+6+12) FC

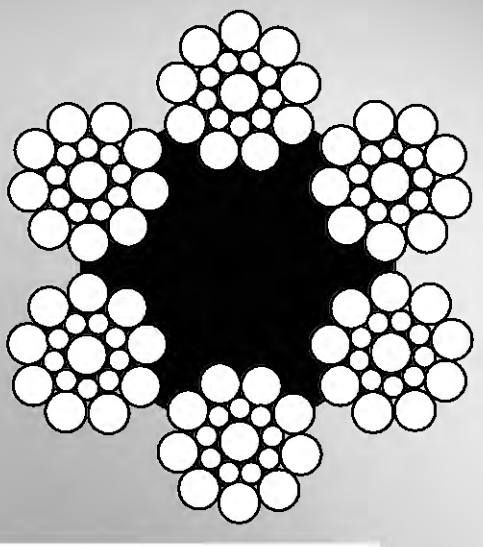
EN 12385-4 DIN 3060						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
4	0.055	8.69		9.63		10.6
5	0.086	13.6		15.0		16.6
6	0.124	19.6		21.7		23.9
7	0.169	26.6		29.5		32.5
8	0.221	34.8		38.5		42.4
9	0.280	44.0		48.7		53.7
10	0.346	54.3		60.2		66.3
11	0.419	65.8		72.8		80.2
12	0.498	78.2		86.6		95.5
13	0.585	91.8		102		112
14	0.678	107		118		130
15	0.779	122		135		149
16	0.886	139		154		170
17	1.000	157		174		192
18	1.121	176		195		215
19	1.249	196		217		239
20	1.384	217		241		265
21	1.526	240		265		292
22	1.675	263		291		321
23	1.830	287		318		351
24	1.993	313		347		382
25	2.163	340		376		414
26	2.339	367		407		448
27	2.522	396		439		483
28	2.713	426		472		520
29	2.910	457		506		558
30	3.114	489		542		597
31	3.325	522		578		637
32	3.543	556		616		679
33	3.768	592		655		722
34	4.000	628		696		767
35	4.239	666		737		812
36	4.484	704		780		859
37	4.737	744		824		908
38	4.996	785		869		958
39	5.263	826		915		1009
40	5.536	869		963		1061



STEEL WIRE ROPES

6X19M=6X(1+6+12) WSC

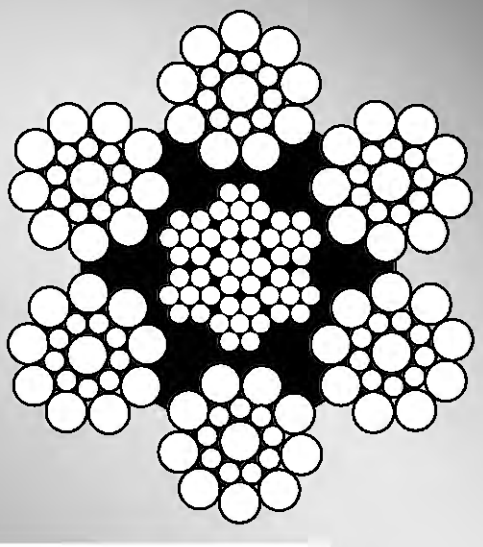
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Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
4	0.061	9.40		10.4		11.5
5	0.095	14.7		16.3		17.9
6	0.137	21.1		23.4		25.8
7	0.187	28.8		31.9		35.1
8	0.244	37.6		41.6		45.9
9	0.309	47.6		52.7		58.1
10	0.381	58.8		65.1		71.7
11	0.461	71.1		78.7		86.7
12	0.549	84.6		93.7		103
13	0.644	99.3		110		121
14	0.747	115		128		141
15	0.857	132		146		161
16	0.975	150		167		184
17	1.101	170		188		207
18	1.234	190		211		232
19	1.375	212		235		259
20	1.524	235		260		287
21	1.680	259		287		316
22	1.844	284		315		347
23	2.015	311		344		379
24	2.195	338		375		413
25	2.381	367		407		448
26	2.576	397		440		485
27	2.777	428		474		523
28	2.987	461		510		562
29	3.204	494		547		603
30	3.429	529		586		645
31	3.661	565		625		689
32	3.901	602		666		734
33	4.149	640		709		781
34	4.404	679		752		829
35	4.667	720		797		878
36	4.938	762		843		929
37	5.216	804		891		981
38	5.502	849		940		1035
39	5.795	894		990		1091
40	6.096	940		1041		1147



STEEL WIRE ROPES

6X19S=6X(1+9+9) FC

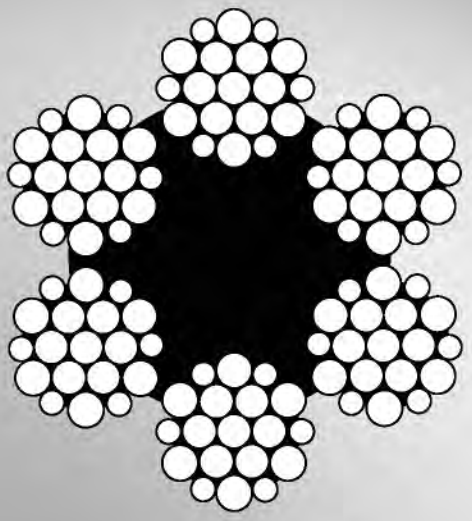
EN 12385-4 DIN 3058						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
6	0.129	21.0	23.3	25.7		
7	0.176	28.6	31.7	34.9		
8	0.230	37.4	41.4	45.6		
9	0.291	47.3	52.4	57.7		
10	0.359	58.4	64.7	71.3		
11	0.434	70.7	78.3	86.2		
12	0.517	84.1	93.1	102		
13	0.607	98.7	109	120		
14	0.704	114	127	140		
15	0.808	131	146	160		
16	0.919	150	166	182		
17	1.038	169	187	206		
18	1.163	189	210	231		
19	1.296	211	233	257		
20	1.436	234	259	285		
21	1.583	258	285	314		
22	1.738	283	313	345		
23	1.899	309	342	377		
24	2.068	336	373	411		
25	2.244	365	404	446		
26	2.427	395	437	482		
27	2.617	426	472	520		
28	2.815	458	507	559		
29	3.019	491	544	599		
30	3.231	526	582	642		
31	3.450	561	622	685		
32	3.676	598	662	730		
33	3.910	636	704	776		
34	4.150	675	748	824		
35	4.398	716	792	873		
36	4.653	757	838	924		
37	4.915	800	885	976		
38	5.184	843	934	1029		
39	5.460	888	984	1084		
40	5.744	935	1035	1140		



STEEL WIRE ROPES

6X19S=6X(1+9+9) IWRC

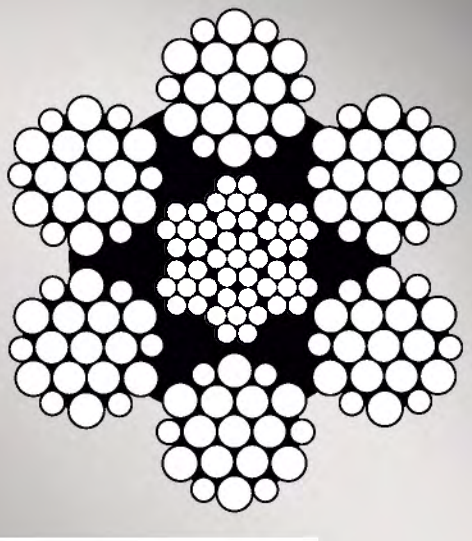
EN 12385-4 DIN 3058						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
6	0.144	22.7		25.1		27.7
7	0.196	30.9		34.2		37.7
8	0.256	40.3		44.7		49.2
9	0.324	51.0		56.5		62.3
10	0.400	63.0		69.8		76.9
11	0.484	76.2		84.4		93.0
12	0.576	90.7		100		111
13	0.676	106		118		130
14	0.784	124		137		151
15	0.900	142		157		173
16	1.024	161		179		197
17	1.156	182		202		222
18	1.296	204		226		249
19	1.444	227		252		278
20	1.600	252		279		308
21	1.764	278		308		339
22	1.936	305		338		372
23	2.116	333		369		407
24	2.304	363		402		443
25	2.500	394		436		481
26	2.704	426		472		520
27	2.916	459		509		561
28	3.136	494		547		603
29	3.364	530		587		647
30	3.600	567		628		692
31	3.844	606		671		739
32	4.096	645		715		787
33	4.356	686		760		837
34	4.624	728		807		889
35	4.900	772		855		942
36	5.184	817		904		997
37	5.476	863		955		1053
38	5.776	910		1008		1110
39	6.084	958		1061		1170
40	6.400	1008		1116		1230



STEEL WIRE ROPES

6X19W=6X[1+6+(6+6)] FC

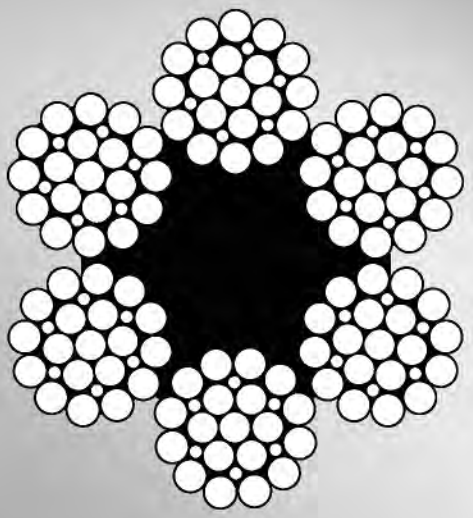
EN 12385-4 DIN 3059						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
6	0.129	21.0	23.3	25.7		
7	0.176	28.6	31.7	34.9		
8	0.230	37.4	41.4	45.6		
9	0.291	47.3	52.4	57.7		
10	0.359	58.4	64.7	71.3		
11	0.434	70.7	78.3	86.2		
12	0.517	84.1	93.1	103		
13	0.607	98.7	109	120		
14	0.704	114	127	140		
15	0.808	131	146	160		
16	0.919	150	166	182		
17	1.038	169	187	206		
18	1.163	189	210	231		
19	1.296	211	233	257		
20	1.436	234	259	285		
21	1.583	258	285	314		
22	1.738	283	313	345		
23	1.899	309	342	377		
24	2.068	336	373	411		
25	2.244	365	404	446		
26	2.427	395	437	482		
27	2.617	426	472	520		
28	2.815	458	507	559		
29	3.019	491	544	599		
30	3.231	526	582	642		
31	3.450	561	622	685		
32	3.676	598	662	730		
33	3.910	636	704	776		
34	4.150	675	748	824		
35	4.398	716	792	873		
36	4.653	757	838	924		
37	4.915	800	885	976		
38	5.184	843	934	1029		
39	5.460	888	984	1084		
40	5.744	935	1035	1140		



STEEL WIRE ROPES

6X19W=6X[1+6+(6+6)] IWRC

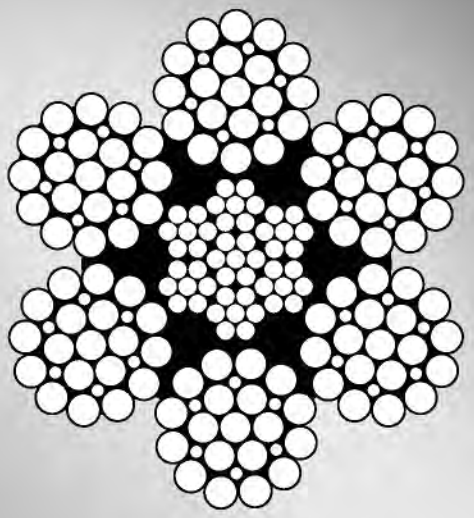
EN 12385-4 DIN 3059						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
6	0.144	22.7		25.1		27.7
7	0.196	30.9		34.2		37.7
8	0.256	40.3		44.7		49.2
9	0.324	51.0		56.5		62.3
10	0.400	63.0		69.8		76.9
11	0.484	76.2		84.4		93.0
12	0.576	90.7		100		111
13	0.676	106		118		130
14	0.784	124		137		151
15	0.900	142		157		173
16	1,024	161		179		197
17	1,156	182		202		222
18	1,296	204		226		249
19	1,444	227		252		278
20	1,600	252		279		308
21	1,764	278		308		339
22	1,936	305		338		372
23	2,116	333		369		407
24	2,304	363		402		443
25	2,500	394		436		481
26	2,704	426		472		520
27	2,916	459		509		561
28	3,136	494		547		603
29	3,364	530		587		647
30	3,600	567		628		692
31	3,844	606		671		739
32	4,096	645		715		787
33	4,356	686		760		837
34	4,624	728		807		889
35	4,900	772		855		942
36	5,184	817		904		997
37	5,476	863		955		1053
38	5,776	910		1008		1110
39	6,084	958		1061		1170
40	6,400	1008		1116		1230



STEEL WIRE ROPES

6X19F=6X(1+6+6f+12) FC

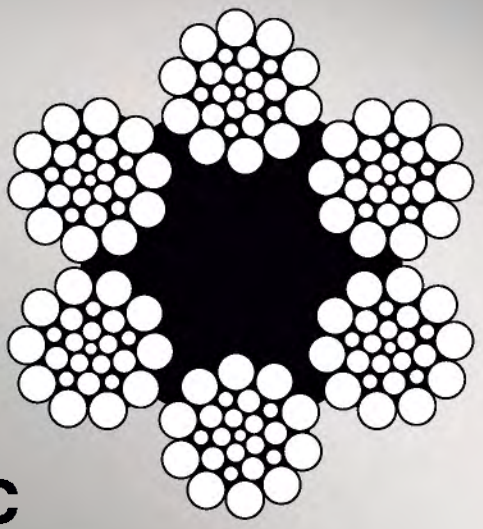
EN 12385-4 DIN 3057						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
8	0.230	37.4	41.4	45.6		
9	0.291	47.3	52.4	57.7		
10	0.359	58.4	64.7	71.3		
11	0.434	70.7	78.3	86.2		
12	0.517	84.1	93.1	103		
13	0.607	98.7	109	120		
14	0.704	114	127	140		
15	0.808	131	146	160		
16	0.919	150	166	182		
17	1.038	169	187	206		
18	1.163	189	210	231		
19	1.296	211	233	257		
20	1.436	234	259	285		
21	1.583	258	285	314		
22	1.738	283	313	345		
23	1.899	309	342	377		
24	2.068	336	373	411		
25	2.244	365	404	446		
26	2.427	395	437	482		
27	2.617	426	472	520		
28	2.815	458	507	559		
29	3.019	491	544	599		
30	3.231	526	582	642		
31	3.450	561	622	685		
32	3.676	598	662	730		
33	3.910	636	704	776		
34	4.150	675	748	824		
35	4.398	716	792	873		
36	4.653	757	838	924		
37	4.915	800	885	976		
38	5.184	843	934	1029		
39	5.460	888	984	1084		
40	5.744	935	1035	1140		



STEEL WIRE ROPES

6X19F=6X(1+6+6f+12) IWRC

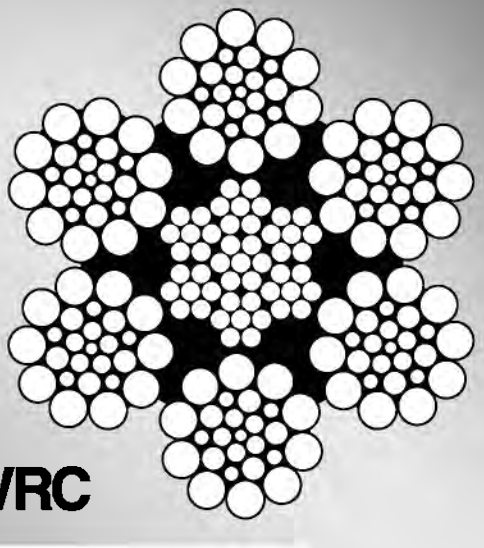
EN 12385-4 DIN 3057						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
8	0.256	40.3		44.7		49.2
9	0.324	51.0		56.5		62.3
10	0.400	63.0		69.8		76.9
11	0.484	76.2		84.4		93.0
12	0.576	90.7		100		111
13	0.676	106		118		130
14	0.784	124		137		151
15	0.900	142		157		173
16	1.024	161		179		197
17	1.156	182		202		222
18	1.296	204		226		249
19	1.444	227		252		278
20	1.600	252		279		308
21	1.764	278		308		339
22	1.936	305		338		372
23	2.116	333		369		407
24	2.304	363		402		443
25	2.500	394		436		481
26	2.704	426		472		520
27	2.916	459		509		561
28	3.136	494		547		603
29	3.364	530		587		647
30	3.600	567		628		692
31	3.844	606		671		739
32	4.096	645		715		787
33	4.356	686		760		837
34	4.624	728		807		889
35	4.900	772		855		942
36	5.184	817		904		997
37	5.476	863		955		1053
38	5.776	910		1008		1110
39	6.084	958		1061		1170
40	6.400	1008		1116		1230



STEEL WIRE ROPES

6X26WS=6X[1+5+(5+5)+10] FC

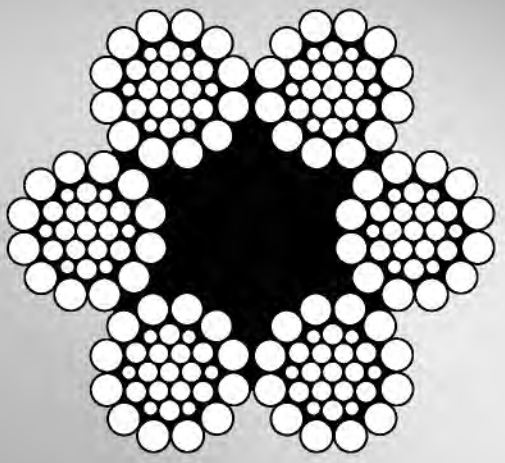
EN 12385-4						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
8	0.235	37.4		41.4		45.6
9	0.297	47.3		52.4		57.7
10	0.367	58.4		64.7		71.3
11	0.444	70.7		78.3		86.2
12	0.528	84.1		93.1		103
13	0.620	98.7		109		120
14	0.719	114		127		140
15	0.826	131		146		160
16	0.940	150		166		182
17	1.061	169		187		206
18	1.189	189		210		231
19	1.325	211		233		257
20	1.468	234		259		285
21	1.618	258		285		314
22	1.776	283		313		345
23	1.941	309		342		377
24	2.114	336		373		411
25	2.294	365		404		446
26	2.481	395		437		482
27	2.675	426		472		520
28	2.877	458		507		559
29	3.086	491		544		599
30	3.303	526		582		642
31	3.527	561		622		685
32	3.758	598		662		730
33	3.997	636		704		776
34	4.243	675		748		824
35	4.496	716		792		873
36	4.756	757		838		924
37	5.024	800		885		976
38	5.299	843		934		1029
39	5.582	888		984		1084
40	5.872	935		1035		1140



STEEL WIRE ROPES

6X26WS=6X[1+5+(5+5)+10] IWRC

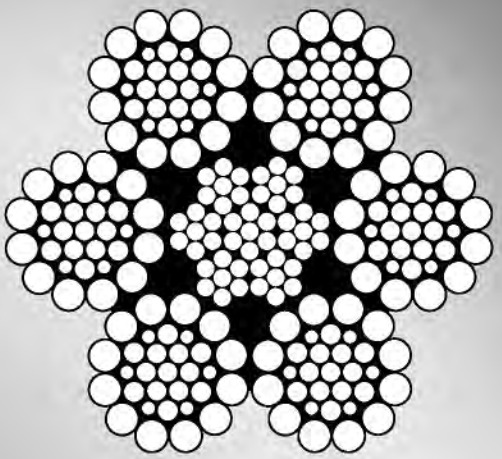
EN 12385-4						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
8	0.262	40.3		44.7		49.2
9	0.331	51.0		56.5		62.3
10	0.409	63.0		69.8		76.9
11	0.495	76.2		84.4		93.0
12	0.589	90.7		100		111
13	0.691	106		118		130
14	0.802	124		137		151
15	0.920	142		157		173
16	1.047	161		179		197
17	1.182	182		202		222
18	1.325	204		226		249
19	1.476	227		252		278
20	1.636	252		279		308
21	1.804	278		308		339
22	1.980	305		338		372
23	2.164	333		369		407
24	2.356	363		402		443
25	2.556	394		436		481
26	2.765	426		472		520
27	2.982	459		509		561
28	3.207	494		547		603
29	3.440	530		587		647
30	3.681	567		628		692
31	3.930	606		671		739
32	4.188	645		715		787
33	4.454	686		760		837
34	4.728	728		807		889
35	5.010	772		855		942
36	5.301	817		904		997
37	5.599	863		955		1053
38	5.906	910		1008		1110
39	6.221	958		1061		1170
40	6.544	1008		1116		1230



STEEL WIRE ROPES

6X31WS=6X[1+6+(6+6)+12] FC

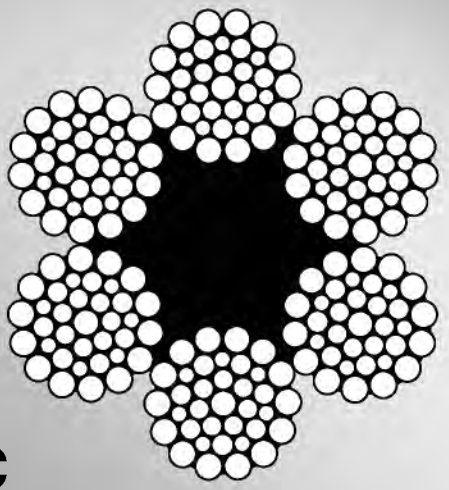
EN 12385-4						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN					
10	0.367	58.4		64.7		71.3	
11	0.444	70.7		78.3		86.2	
12	0.528	84.1		93.1		103	
13	0.620	98.7		109		120	
14	0.719	114		127		140	
15	0.826	131		146		160	
16	0.940	150		166		182	
17	1.061	169		187		206	
18	1.189	189		210		231	
19	1.325	211		233		257	
20	1.468	234		259		285	
21	1.618	258		285		314	
22	1.776	283		313		345	
23	1.941	309		342		377	
24	2.114	336		373		411	
25	2.294	365		404		446	
26	2.481	395		437		482	
27	2.675	426		472		520	
28	2.877	458		507		559	
29	3.086	491		544		599	
30	3.303	526		582		642	
31	3.527	561		622		685	
32	3.758	598		662		730	
33	3.997	636		704		776	
34	4.243	675		748		824	
35	4.496	716		792		873	
36	4.756	757		838		924	
37	5.024	800		885		976	
38	5.299	843		934		1029	
39	5.582	888		984		1084	
40	5.872	935		1035		1140	



STEEL WIRE ROPES

6X31WS=6X[1+6+(6+6)+12] IWRC

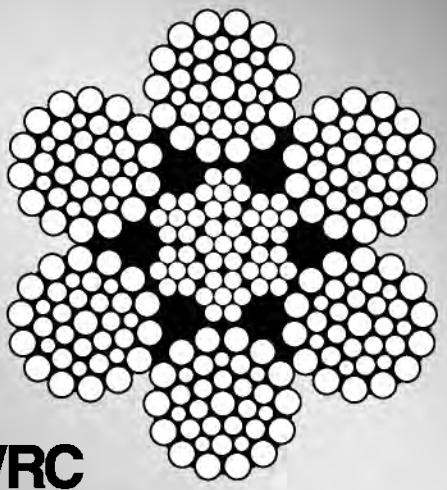
EN 12385-4						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
10	0.409	63.0		69.8		76.9
11	0.495	76.2		84.4		93.0
12	0.589	90.7		100		111
13	0.691	106		118		130
14	0.802	124		137		151
15	0.920	142		157		173
16	1.047	161		179		197
17	1.182	182		202		222
18	1.325	204		226		249
19	1.476	227		252		278
20	1.636	252		279		308
21	1.804	278		308		339
22	1.980	305		338		372
23	2.164	333		369		407
24	2.356	363		402		443
25	2.556	394		436		481
26	2.765	426		472		520
27	2.982	459		509		561
28	3.207	494		547		603
29	3.440	530		587		647
30	3.681	567		628		692
31	3.930	606		671		739
32	4.188	645		715		787
33	4.454	686		760		837
34	4.728	728		807		889
35	5.010	772		855		942
36	5.301	817		904		997
37	5.599	863		955		1053
38	5.906	910		1008		1110
39	6.221	958		1061		1170
40	6.544	1008		1116		1230



STEEL WIRE ROPES

6X36WS=6X[1+7+(7+7)+14] FC

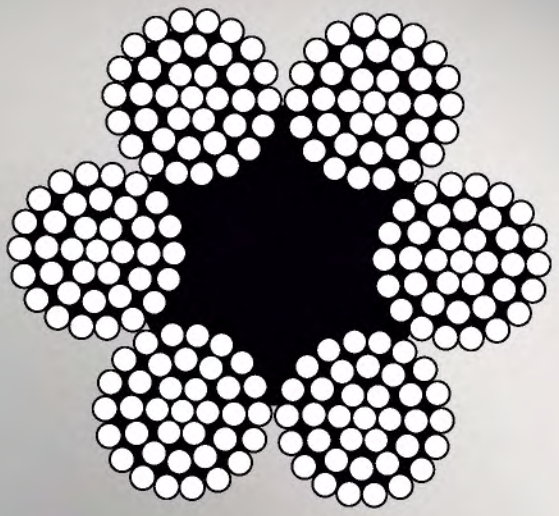
EN 12385-4 DIN 3064						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
10	0.367	58.4		64.7		71.3
11	0.444	70.7		78.3		86.2
12	0.528	84.1		93.1		103
13	0.620	98.7		109		120
14	0.719	114		127		140
15	0.826	131		146		160
16	0.940	150		166		182
17	1.061	169		187		206
18	1.189	189		210		231
19	1.325	211		233		257
20	1.468	234		259		285
21	1.618	258		285		314
22	1.776	283		313		345
23	1.941	309		342		377
24	2.114	336		373		411
25	2.294	365		404		446
26	2.481	395		437		482
27	2.675	426		472		520
28	2.877	458		507		559
29	3.086	491		544		599
30	3.303	526		582		642
31	3.527	561		622		685
32	3.758	598		662		730
33	3.997	636		704		776
34	4.243	675		748		824
35	4.496	716		792		873
36	4.756	757		838		924
37	5.024	800		885		976
38	5.299	843		934		1029
39	5.582	888		984		1084
40	5.872	935		1035		1140



STEEL WIRE ROPES

6X36WS=6X[1+7+(7+7)+14] IWRC

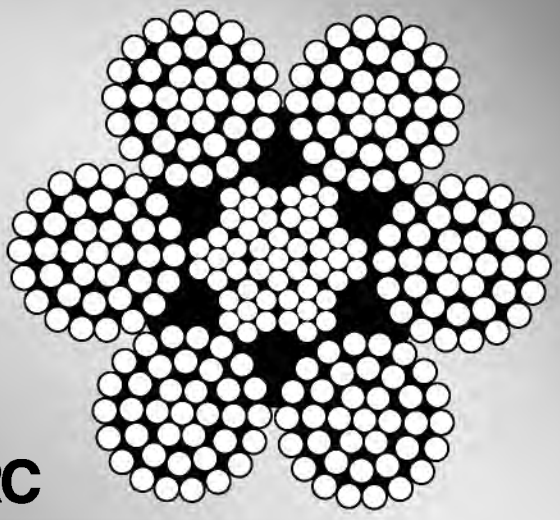
EN 12385-4 DIN 3064						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
10	0.409	63.0		69.8		76.9
11	0.495	76.2		84.4		93.0
12	0.589	90.7		100		111
13	0.691	106		118		130
14	0.802	124		137		151
15	0.920	142		157		173
16	1.047	161		179		197
17	1.182	182		202		222
18	1.325	204		226		249
19	1.476	227		252		278
20	1.636	252		279		308
21	1.804	278		308		339
22	1.980	305		338		372
23	2.164	333		369		407
24	2.356	363		402		443
25	2.556	394		436		481
26	2.765	426		472		520
27	2.982	459		509		561
28	3.207	494		547		603
29	3.440	530		587		647
30	3.681	567		628		692
31	3.930	606		671		739
32	4.188	645		715		787
33	4.454	686		760		837
34	4.728	728		807		889
35	5.010	772		855		942
36	5.301	817		904		997
37	5.599	863		955		1053
38	5.906	910		1008		1110
39	6.221	958		1061		1170
40	6.544	1008		1116		1230



STEEL WIRE ROPES

6X37M=6X(1+6+12+18) FC

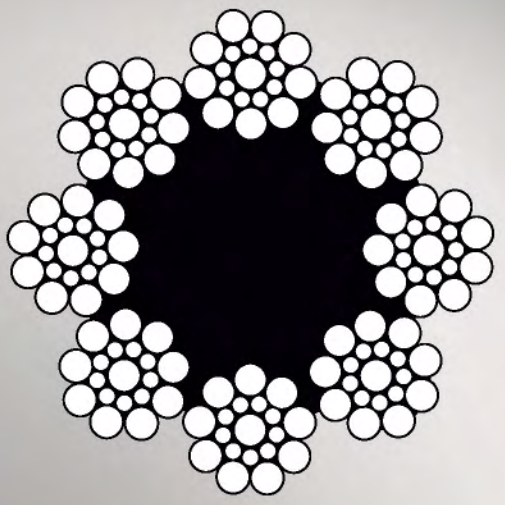
EN 12385-4 DIN 3066						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
10	0.346	52.2	57.8	63.7		
11	0.419	63.2	70.0	77.1		
12	0.498	75.2	83.3	91.8		
13	0.585	88.2	97.7	108		
14	0.678	102	113	125		
15	0.779	117	130	143		
16	0.886	134	148	163		
17	1.000	151	167	184		
18	1.121	169	187	206		
19	1.249	189	209	230		
20	1.384	209	231	255		
21	1.526	230	255	281		
22	1.675	253	280	308		
23	1.830	276	306	337		
24	1.993	301	333	367		
25	2.163	326	361	398		
26	2.339	353	391	431		
27	2.522	381	422	465		
28	2.713	409	453	500		
29	2.910	439	486	536		
30	3.114	470	520	573		
31	3.325	502	556	612		
32	3.543	535	592	652		
33	3.768	569	630	694		
34	4.000	604	668	737		
35	4.239	640	708	781		
36	4.484	677	749	826		
37	4.737	715	792	872		
38	4.996	754	835	920		
39	5.263	794	879	969		
40	5.536	835	925	1020		



STEEL WIRE ROPES

6X37M=6X(1+6+12+18) IWRC

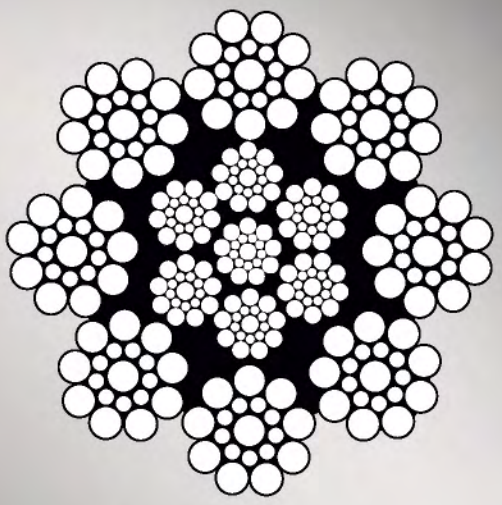
EN 12385-4 DIN 3066						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
10	0.381	61.2		67.8		74.7
11	0.461	74.1		82.1		90.4
12	0.549	88.2		97.7		108
13	0.644	103		115		126
14	0.747	120		133		146
15	0.857	138		153		168
16	0.975	157		174		191
17	1.101	177		196		216
18	1.234	198		220		242
19	1.375	221		245		270
20	1.524	245		271		299
21	1.680	270		299		330
22	1.844	296		328		362
23	2.015	324		359		395
24	2.195	353		391		430
25	2.381	383		424		467
26	2.576	414		458		505
27	2.777	446		494		545
28	2.987	480		532		586
29	3.204	515		570		629
30	3.429	551		610		673
31	3.661	589		652		718
32	3.901	627		694		765
33	4.149	667		739		814
34	4.404	708		784		864
35	4.667	750		831		916
36	4.938	794		879		969
37	5.216	838		928		1023
38	5.502	884		979		1079
39	5.795	931		1031		1137
40	6.096	980		1085		1196



STEEL WIRE ROPES

8X19S=8X(1+9+9) FC

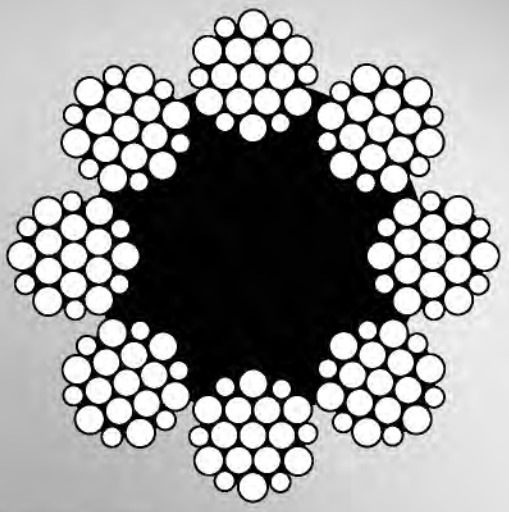
EN 12385-5 DIN 3062					
Rope Diameter mm	Unit Weight kg/m	Wire Tensile			
		1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN			
6	0.123	16.6		18.7	
7	0.167	22.5		25.4	
8	0.218	29.4		33.2	
9	0.275	37.3		42.0	
10	0.340	46.0		51.9	
11	0.411	55.7		62.8	
12	0.490	66.2		74.7	
13	0.575	77.7		87.6	
14	0.666	90.2		102	
15	0.765	104		117	
16	0.870	118		134	
17	0.983	133		150	
18	1.102	149		168	
19	1.227	166		187	
20	1.360	184		207	
21	1.499	203		229	
22	1.646	223		251	
23	1.799	243		274	
24	1.958	265		299	



STEEL WIRE ROPES

8X19S=8X(1+9+9) IWRC

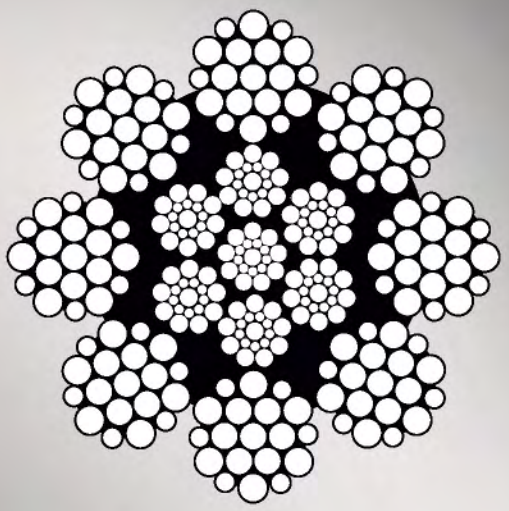
EN 12385-5 DIN 3062					
Rope Diameter mm	Unit Weight kg/m	Wire Tensile			
		1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN			
6	0.146	20.1		22.7	
7	0.199	27.4		30.9	
8	0.260	35.8		40.3	
9	0.330	45.3		51.0	
10	0.407	55.9		63.0	
11	0.492	67.6		76.2	
12	0.586	80.5		90.7	
13	0.688	94.5		106	
14	0.798	110		124	
15	0.916	126		142	
16	1.042	143		161	
17	1.176	162		182	
18	1.319	181		204	
19	1.469	202		227	
20	1.628	224		252	
21	1.795	246		278	
22	1.970	271		305	
23	2.153	296		333	
24	2.344	322		363	



STEEL WIRE ROPES

8X19W=8X[1+6+(6+6)] FC

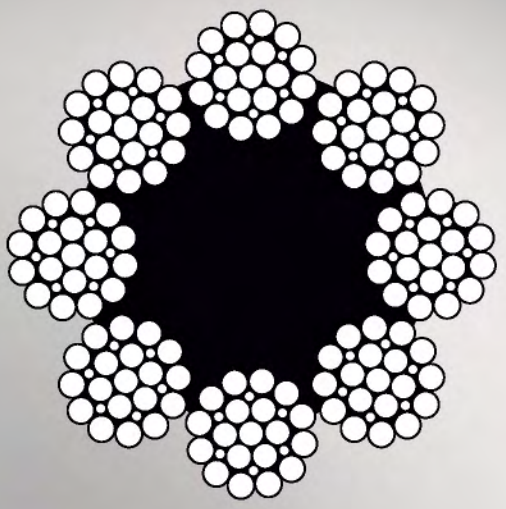
EN 12385-5 DIN 3063					
Rope Diameter mm	Unit Weight kg/m	Wire Tensile			
		1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN			
6	0.123	16.6		18.7	
7	0.167	22.5		25.4	
8	0.218	29.4		33.2	
9	0.275	37.3		42.0	
10	0.340	46.0		51.9	
11	0.411	55.7		62.8	
12	0.490	66.2		74.7	
13	0.575	77.7		87.6	
14	0.666	90.2		102	
15	0.765	104		117	
16	0.870	118		133	
17	0.983	133		150	
18	1.102	149		168	
19	1.227	166		187	
20	1.360	184		207	
21	1.499	203		229	
22	1.646	223		251	
23	1.799	243		274	
24	1.958	265		299	



STEEL WIRE ROPES

8X19W=8X[1+6+(6+6)] IWRC

EN 12385-5 DIN 3063					
Rope Diameter mm	Unit Weight kg/m	Wire Tensile			
		1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN			
6	0.146	20.1		22.7	
7	0.199	27.4		30.9	
8	0.260	35.8		40.3	
9	0.330	45.3		51.0	
10	0.407	55.9		63.0	
11	0.492	67.6		76.2	
12	0.586	80.5		90.7	
13	0.688	94.5		106	
14	0.798	110		124	
15	0.916	126		142	
16	1.042	143		161	
17	1.176	162		182	
18	1.319	181		204	
19	1.469	202		227	
20	1.628	224		252	
21	1.795	246		278	
22	1.970	271		305	
23	2.155	296		333	
24	2.344	322		363	

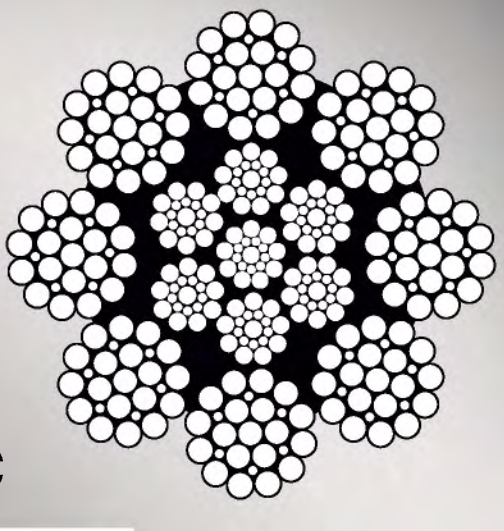


STEEL WIRE ROPES

8X19F=8X(1+6+6F+12) FC

EN 12385-5 DIN 3061					
Rope Diameter mm	Unit Weight kg/m	Wire Tensile			
		1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN			
8	0.218	29.4		33.2	
9	0.275	37.3		42.0	
10	0.340	46.0		51.9	
11	0.411	55.7		62.8	
12	0.490	66.2		74.7	
13	0.575	77.7		87.6	
14	0.666	90.2		102	
15	0.765	104		117	
16	0.870	118		134	
17	0.983	133		150	
18	1.102	149		168	
19	1.227	166		187	
20	1.360	184		207	
21	1.499	203		229	
22	1.646	223		251	
23	1.799	243		274	
24	1.958	265		299	



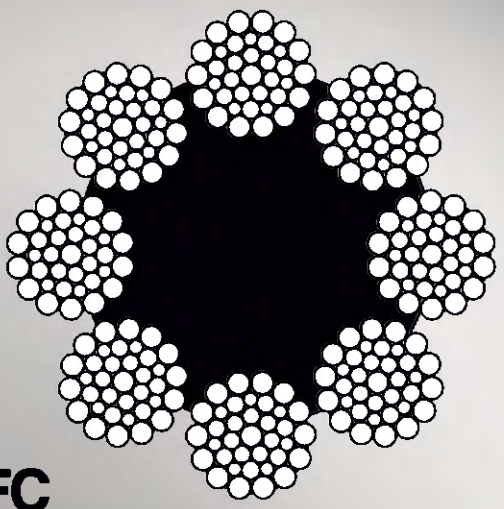


STEEL WIRE ROPES

8X19F=8X(1+6+6F+12) IWRC

EN 12385-5 DIN 3061					
Rope Diameter mm	Unit Weight kg/m	Wire Tensile			
		1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN			
8	0.260	35.8		40.3	
9	0.330	45.3		51.0	
10	0.407	55.9		63.0	
11	0.492	67.6		76.2	
12	0.586	80.5		90.7	
13	0.688	94.5		106	
14	0.798	110		124	
15	0.916	126		142	
16	1.042	143		161	
17	1.176	162		182	
18	1.319	181		204	
19	1.469	202		227	
20	1.628	224		252	
21	1.795	246		278	
22	1.970	271		305	
23	2.153	296		333	
24	2.344	322		363	

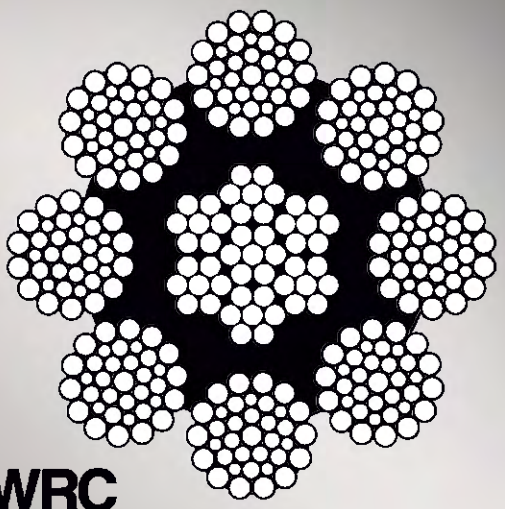




STEEL WIRE ROPES

8X36WS=8X[1+7+(7+7)+14] FC

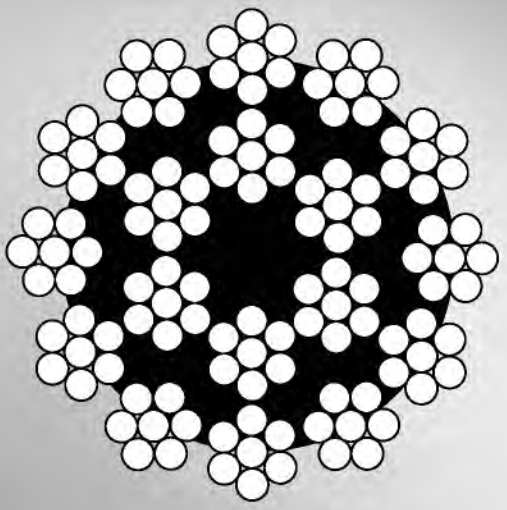
EN 12385-4 DIN 3067						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
8	0.228	33.2		36.8		40.5
9	0.288	42.0		46.5		51.3
10	0.356	51.9		57.4		63.3
11	0.431	62.8		69.5		76.6
12	0.513	74.7		82.7		91.1
13	0.602	87.6		97.1		107
14	0.698	102		113		124
15	0.801	117		129		142
16	0.911	133		147		162
17	1.029	150		166		183
18	1.153	168		186		205
19	1.285	187		207		228
20	1.424	207		230		253
21	1.570	229		253		279
22	1.723	251		278		306
23	1.883	274		304		335
24	2.051	299		331		365



STEEL WIRE ROPES

8X36WS=8X[1+7+(7+7)+14]IWRC

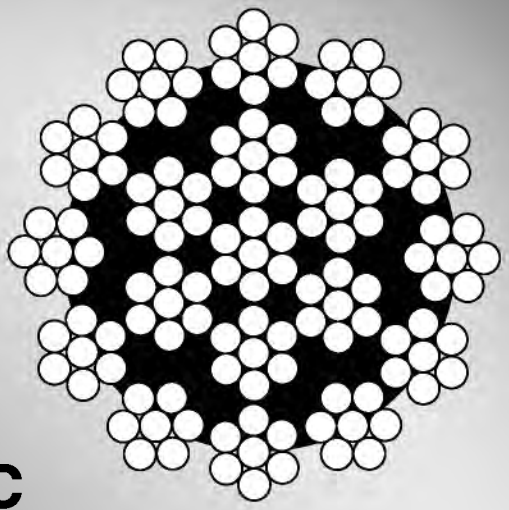
EN 12385-4 DIN 3067						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
8	0.278	40.3		44.7		49.2
9	0.352	51.0		56.5		62.3
10	0.435	63.0		69.8		76.9
11	0.526	76.2		84.4		93
12	0.626	90.7		100		111
13	0.735	106		118		130
14	0.853	124		137		151
15	0.979	142		157		173
16	1.114	161		179		197
17	1.257	182		202		222
18	1.409	204		226		249
19	1.570	227		252		278
20	1.740	252		279		308
21	1.918	278		308		339
22	2.105	305		338		372
23	2.301	333		369		407
24	2.506	363		402		443



STEEL WIRE ROPES

18X7=6x(1+6)+12x(1+6) FC

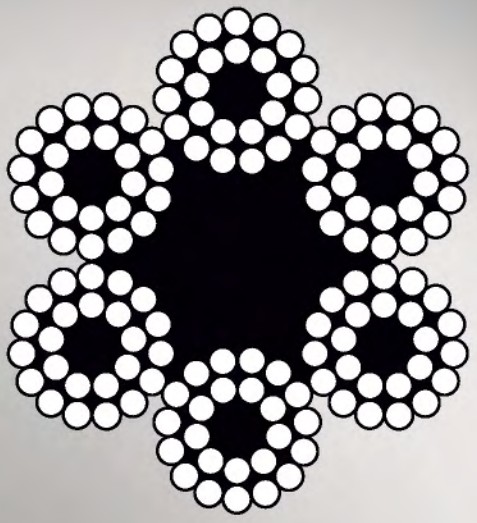
EN 12385-4 DIN 3069						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
6	0.137	18.8		20.8		22.9
7	0.187	25.6		28.3		31.2
8	0.244	33.4		37.0		40.8
9	0.309	42.3		46.8		51.6
10	0.382	52.2		57.8		63.7
11	0.462	63.2		70.0		77.1
12	0.550	75.2		83.3		91.8
13	0.646	88.2		97.7		108
14	0.749	102		113		125
15	0.860	118		130		143
16	0.978	134		148		163
17	1.104	151		167		184
18	1.238	169		187		206
19	1.379	189		209		230
20	1.528	209		231		255
21	1.685	230		255		281
22	1.849	253		280		308
23	2.021	276		306		337
24	2.200	301		333		367
25	2.388	326		361		398
26	2.582	353		391		431



STEEL WIRE ROPES

18X7=6x(1+6)+12x(1+6) WSC

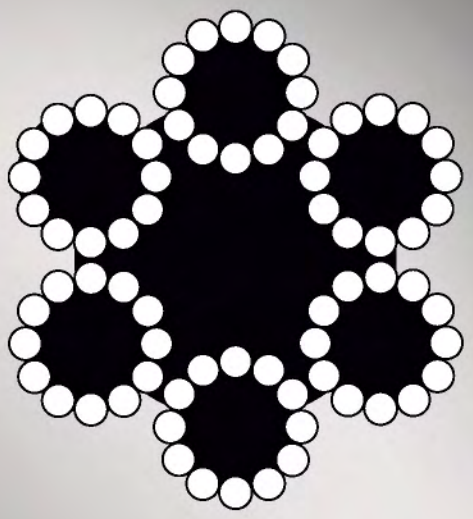
EN 12385-4 DIN 3069						
Rope Diameter mm	Unit Weight kg/m	Wire Tensile				
		1770 N/mm²	180 kg/mm²	1960 N/mm²	200 kg/mm²	2160 N/mm²	220 kg/mm²
		Minimum Breaking Load (MBL) kN				
6	0.145	20.9		23.1		25.5
7	0.197	28.5		31.5		34.7
8	0.257	37.2		41.1		45.3
9	0.325	47.0		52.1		57.4
10	0.401	58.1		64.3		70.8
11	0.485	70.2		77.8		85.7
12	0.577	83.6		92.6		102
13	0.678	98.1		109		120
14	0.786	114		126		139
15	0.902	131		145		159
16	1.027	149		165		181
17	1.159	168		186		205
18	1.299	188		208		230
19	1.448	210		232		256
20	1.604	232		257		283
21	1.768	256		284		312
22	1.941	281		311		343
23	2.121	307		340		375
24	2.310	334		370		408
25	2.506	363		402		443
26	2.711	392		435		479



STEEL WIRE ROPES

6X24+7FC=6x(FC+9+15)

EN 12385-4 DIN 3068			
Rope Diameter mm	Unit Weight kg/m	Wire Tensile	
		1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN	
10	0.318	49.6	
11	0.385	60.0	
12	0.458	71.4	
13	0.537	83.8	
14	0.623	97.1	
15	0.716	111	
16	0.814	127	
17	0.919	143	
18	1.030	160	
19	1.148	179	
20	1.272	198	
21	1.402	218	
22	1.539	240	
23	1.682	262	
24	1.832	285	
25	1.988	309	
26	2.150	335	
27	2.318	361	
28	2.493	389	
29	2.674	416	
30	2.862	446	



STEEL WIRE ROPES

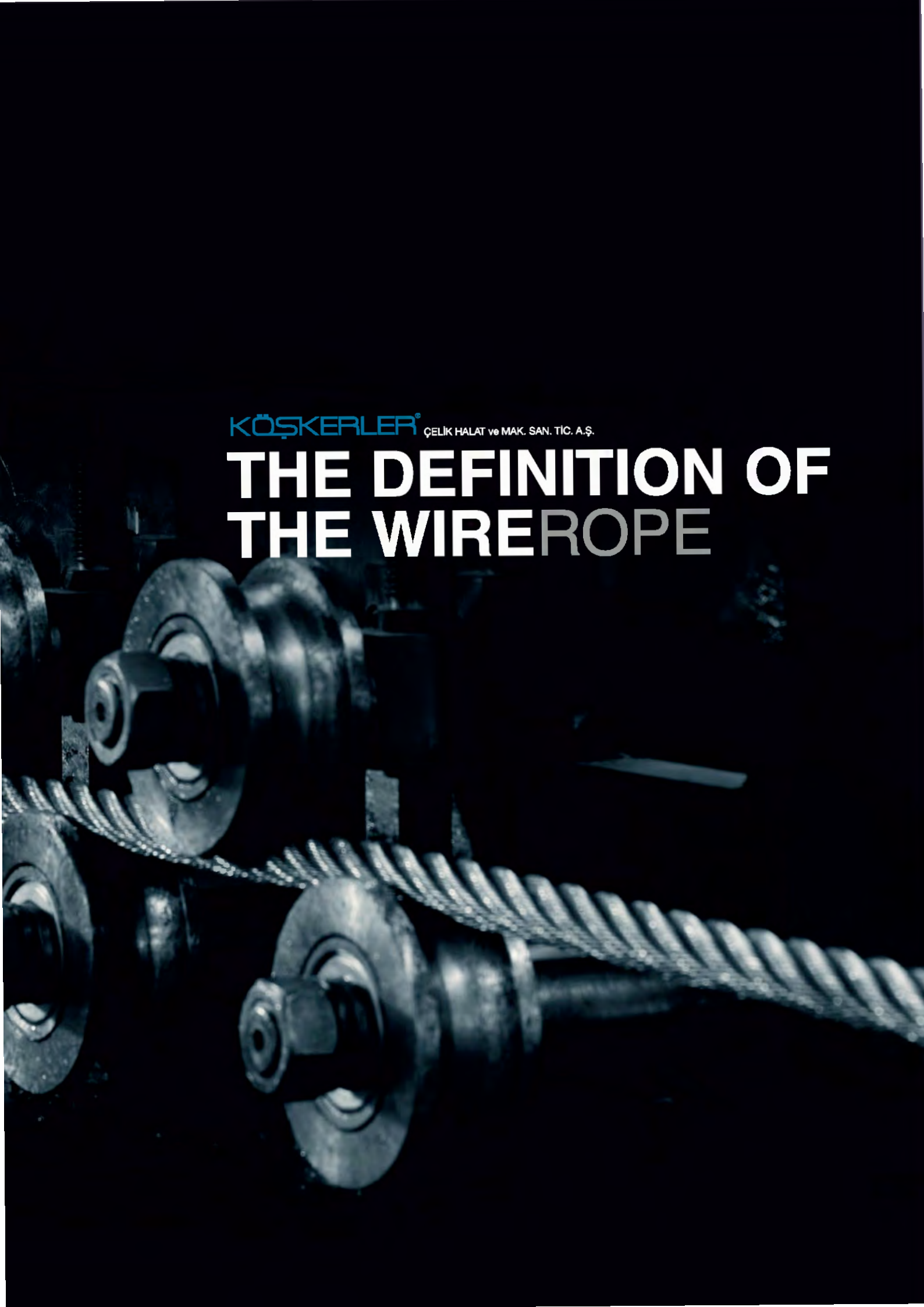
6X12+7FC=6x(FC+12)

Rope Diameter mm	Unit Weight kg/m	Wire Tensile			
		1570 N/mm²	160 kg/mm²	1770 N/mm²	180 kg/mm²
		Minimum Breaking Load (MBL) kN			
6	0.090	11.3		12.7	
8	0.161	20.1		22.5	
10	0.251	32.7		36.8	
11	0.304	39.5		44.5	
12	0.361	47.0		53.0	
13	0.424	55.2		62.2	
14	0.492	64.0		72.2	
15	0.565	73.5		82.8	
16	0.643	83.6		94.2	
17	0.725	94.4		106	
18	0.813	106		119	
19	0.906	118		133	
20	1.004	131		147	
21	1.107	144		162	
22	1.215	158		178	
23	1.328	173		194	
24	1.446	188		212	
25	1.569	204		230	
26	1.697	221		249	
27	1.830	238		268	
28	1.968	256		288	
29	2.111	274		310	
30	2.259	294		331	



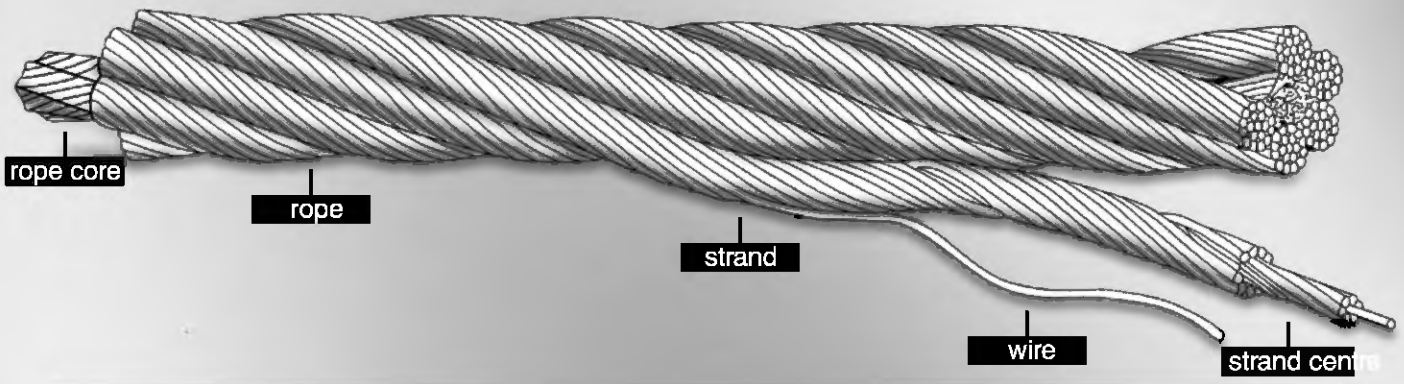
KÖŞKERLER® ÇELİK HALAT ve MAK. SAN. TİC. A.Ş.

THE DEFINITION OF THE WIREROPE



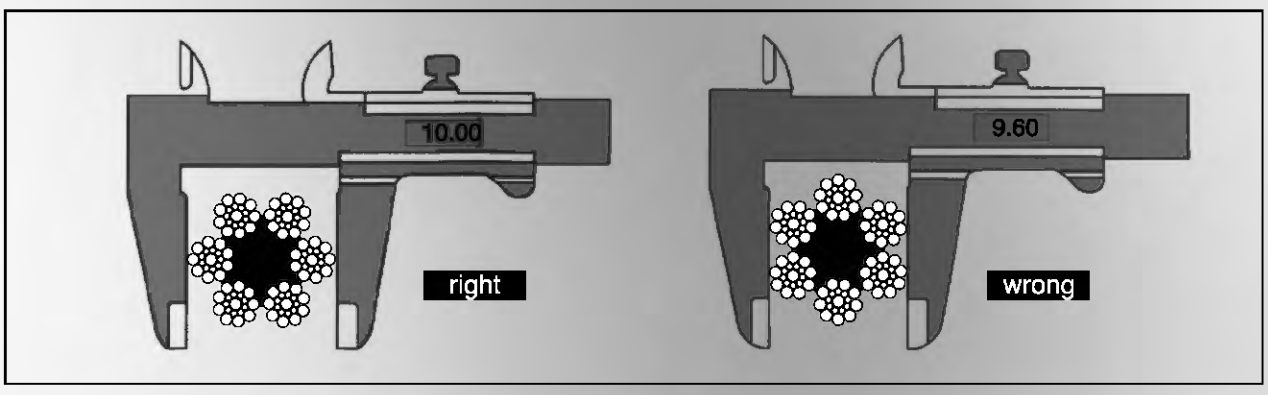
The Definition of The Wire Rope

The wire rope is made up of wrapping at least 4 strands around a core which is made p.p.c, steel or fiber. Every strands and steels wrapped like helix in a different construction.



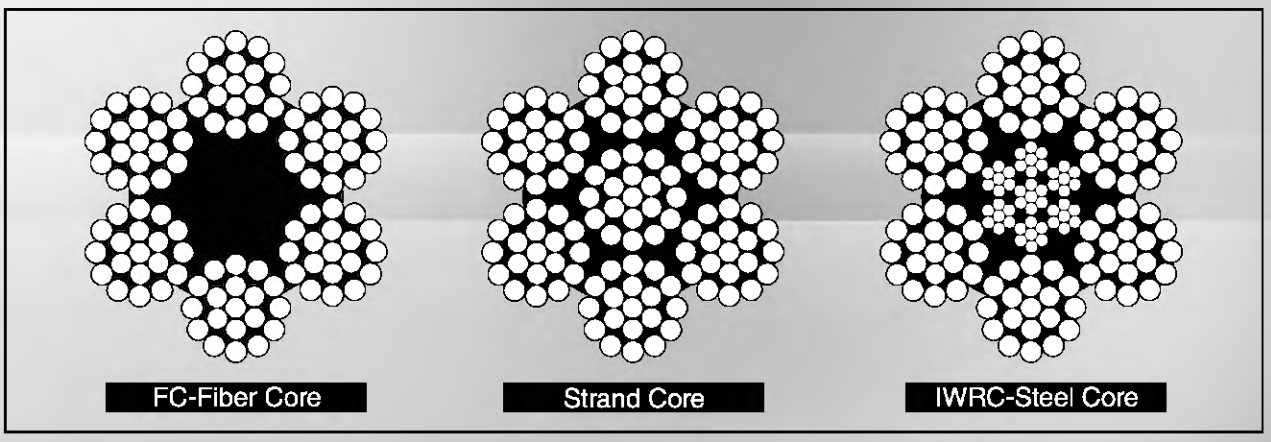
Measurement of the Diameter of Steel Wire Rope

The diameter of the steel wire rope encircles the outer wires and strands including the cross section. The measuring device must touch extreme outer wires of two strands.



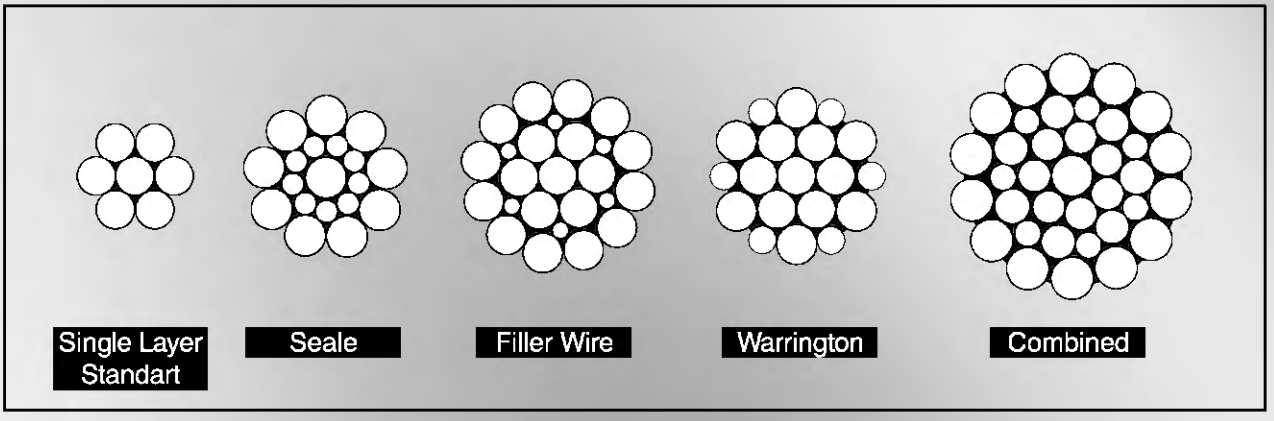
Wire Rope Core

Wire rope cores are divided into 3 different groups; fiber core (FC), strand core and steel core (IWRC).

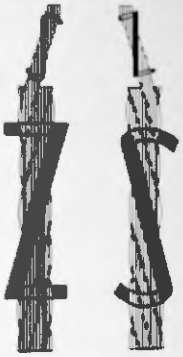


Fundamental Constructions

There are four different stranding constructions. Also some constructions can be formed by combining these ones.

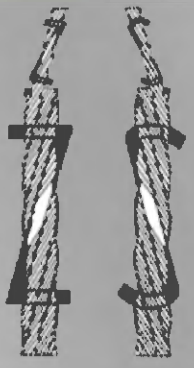


Lay of Direction of Wire Ropes



Regular Lay Wire Rope

The direction of the wire lay in the strand is opposite to the direction of the lay in the rope. It is two kind; right regular lay "s/Z", and left regular lay "z/S".



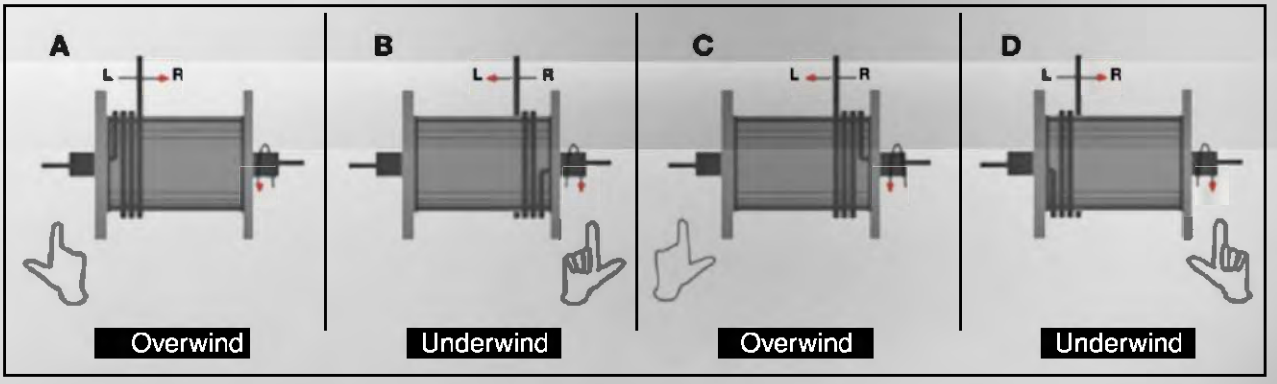
Land Lay Wire Rope

Both strand lay and rope lay are in the same direction. There are two types; right land lay "z/Z" and left lang lay "s/S".

Spooling/Anchorage of Rope on Drum

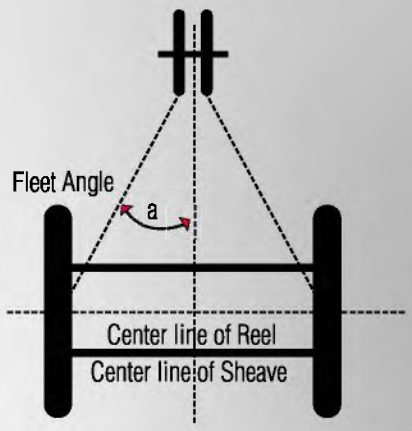
Wires are produced with no inner stress. Inappropriate spooling causes stress and decreases life time of the wire.

A. Right hand regular lay - Upper spooling should be right to left.
B. Right hand regular lay - Lower spooling should be left to right.
C. Left hand regular lay - Upper spooling should be right to left.
D. Left hand regular lay - Upper spooling should be left to right.



Fleet Angle

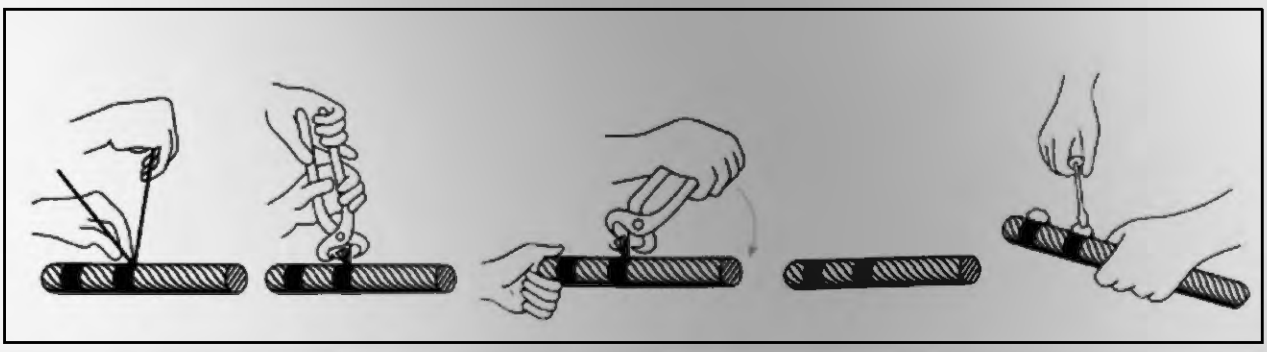
Fleet angle is the angle shown by the perpendicular line that goes from the center of the chase to the drum flange and the drum center. Categorized as left and right. The angle is expected to be in the recommended tolerance rates. Otherwise it affects the wire's service life. To increase the performance and service life of wire, fleet of angle should be 1,5 angle on flat drums, and should not be more than 2,5 angle on grooved drums.



Recommended Angle
Grooved Drum: $a \leq 2.5^0$
Flat Drum: $0.5^0 \leq a \leq 1.5^0$

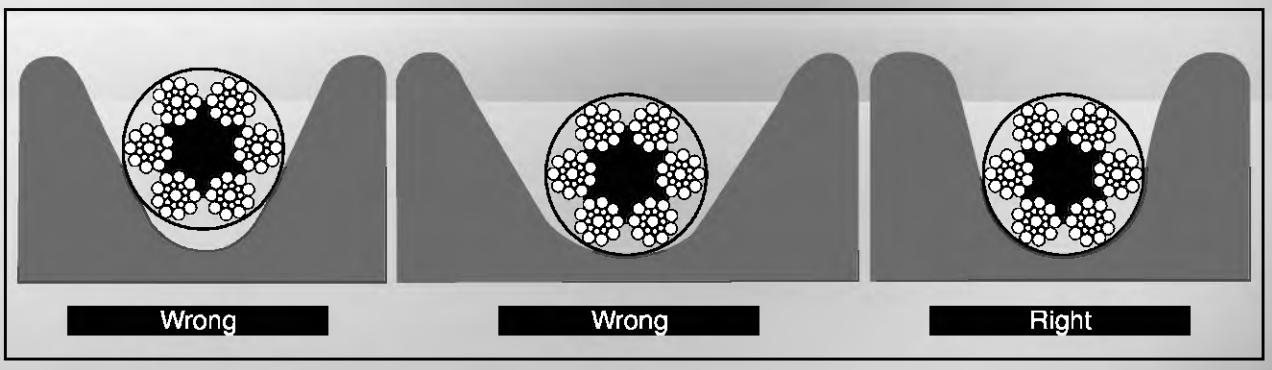
Rope Cutting Process

Before cutting ropes, both sides of rope should be wrapped with low carbon steel wire. After that, the process is applied respectively as seen in the figure.



Ideal Pulley Groove

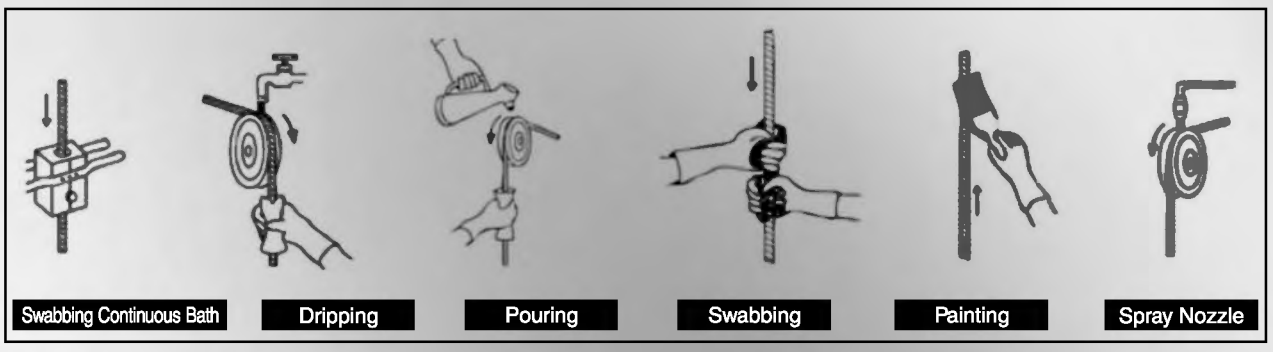
Greater contact area between the rope and the pulley reduces abrasion and enhances service life. The diameter of the groove is measured with diameter straightedge. If the wire rope tolerance of an open chase is considered 5%, the ideal chase Groove should be 5% greater than the minimum nominal diameter of the rope. The maximum groove tolerance is 5%. For proper use, the groove has to be in contact with 33% of the rope.



Lubricacation of Wire Ropes

Lubrication is a vital process for the performance and service life of wire ropes. Besides, it is also important to use the proper lubricant depending on the application area. Basic purposes of lubrication are to protect oxidization and to reduce friction between wires and strands. In stranding and roping process, all wires are lubricated. The type of lubrication may vary by usage of wire rope.

Lubrication which is made in the manufacturing process may not be enough for some application. Some of them requires lubrication again periodically. In the figure, there are shown some lubrication-in-use methods.



DIAMETER CONVERSION

in.	mm.	in.	mm.
5/32	3.97	15/16	23.8
3/16	4.76	1	25.4
7/32	5.56	1 1/16	27.0
1/4	6.35	1 1/8	28.6
5/16	7.94	1 3/16	30.2
3/8	9.53	1 1/4	31.8
7/16	11.1	1 3/8	34.9
1/2	12.7	1 1/2	38.1
9/16	14.3	15/16	41.3
5/8	15.9	1 3/4	44.5
11/16	17.5	1 7/8	47.6
3/4	19.0	2	50.8
13/18	20.6	2 1/8	54.0
7/8	22.2	2 1/4	57.2

UNIT CONVERSION TABLE

Length	1m	= 1000 mm	= 3,281ft	= 39,37 inch
Force	1kN	= 101,97kp	= 0,10197 MT-f	= 224lbs-f
Tensile Strength	1N/mm^2	= 0,10197 kp/mm^2	= 145,04 p.s.i.	= 10 bar
Cross Section	1 mm^2	= 0,00155 in^2		
Weight	1 metric t	= 1000 kg = 1,102 short t	= 0,9842 long t	= 2204,6 lbs
Weight per Length Unit	1 kg/m	= 0,672 lbs/ft		

HOW TO ORDER WIREROPES

To provide a better service, please indicate following technical information below when ordering steel wire rope. If you have any specific inquiry, please contact us.

1. **Construction of Rope**
2. **Type of Core**
3. **Type of Coating**
4. **Diameter of Rope**
5. **Direction of Lay**
6. **Type of Lubrication**
7. **Tensile Strength**
8. **Packing**
9. **Delivery Adress**

Example Order Form
1. 6x19 Standard
2. Fiber Core (FC)
3. Galvanized
4. 24.00 mm
5. RHOL (Right-Hand Regular Lay) (s/Z)
6. A-2
7. 180 Kg/mm^2
8. Wooden Drum
9. Çerkeşli Köyü OSB Mahallesi, İMES Bulvarı, No:20 Dilovası / Kocaeli / T urkey Evyap Port

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QUALITY CERTIFICATES







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