

Dragon Steel Products was established with the goal of providing our international customers with the highest level of professional service and quality merchandise at competitive prices. We are recognized and respected around the world for our ability to source the most ordinary and the most unusual products.

Our extensive contacts with a diverse range of Asian manufacturers enable us to ensure export to world-wide markets with attention to major international specifications.

We maintain offices in New York, Qingdao and Shanghai, China, providing around-the-clock response and service to our customers.

Product Specialization:

Steel forgings and castings, wire rope, cable and related accessories. Other products include valves, pipe fittings, wire mesh, agricultural implements, material handling equipment and cargo tie-down components. All industries and markets are accessible through our extensive contacts.

Technology:

Continually updated databases and extensive travel throughout Asia keep us in contact with the most innovative manufacturers, enabling us to offer an ever expanding range of products to meet our customer's needs. Our offices are electronically linked, around the clock and around the world, providing you with responsive customer service.

Quality:

We place the highest emphasis on quality control and inspect all orders prior to shipment. Our strategic locations near the Southern ports of Shanghai and Northern ports of Qingdao enable us to consolidate products from several manufacturers in the same shipment, ensuring that you receive the optimum product mix via the most direct route.

Products liability insurance:

Dragon Steel Products is insured by a reputable carrier. Certificates of insurance can be provided upon request.

Dragon Steel Products's goal is to cultivate long term business relationships with our clients, and we place the highest priority on hands-on account and product management with your organization. Our success is a mirror of our customer's satisfaction, and we are confident our attention to detail will surpass your experience dealing with other firms.

Dragon Steel Products welcomes your enquiry and looks forward to assisting you with all your import needs. Please contact us for more information and personalized attention.

PRODUCTS INDEX

STEEL WIRE ROPE	1 - 20
PC STRANDS	21
CABLE TIE-OUTS	22 - 23
CHAIN	24 - 40
ANCHOR CHAIN	41 - 43
HOOKS	44 - 55
LINKS	56 - 62
LOAD BINDERS	63
TURNBUCKLES	64 - 67
EYE BOLTS	68 - 71
SHACKLES	72 - 75
WIRE ROPE CLIPS	76 - 77
THIMBLES	78 - 81
SNAP HOOKS	82 - 83
SLEEVES	84
SMALL ANCHORS	85 - 86
RATCHET BUCKLES	87 - 88
METAL HOOKS	89 - 91
CAM BUCKLES	92
WINCHES	93
WEBBING SLINGS	94
RATCHET STRAPS	95
PULLEYS AND BLOCKS	96 - 102
CHAIN BLOCKS	103 - 104
LEVER BLOCKS	105 - 106
CLAMPS	107 - 109
CUTTING, BENDING*SWAGING TOOLS	110 - 112
TROLLEYS	113
PALLET TRUCKS	114
WIRE ROPE WINCHES	115

STEEL WIRE ROPE

STEEL WIRE ROPE ASSEMBLIES



STEEL WIRE ROPE

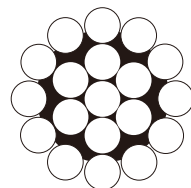
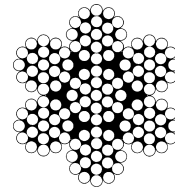
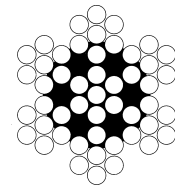
GALVANIZED AIRCRAFT CABLES (not for aircraft use)

Specification: RR-W-410E

Improved Plow Steel



Nominal Diameter	Tolerance on Dia.	Approx Weight	Approx Weight	Min. Breaking Strength	
				Galvanized	Stainless
inch	inch	kg/1000'	lb/1000'	lb	lb
7x7					
3/64	0.008	1.91	4.2	270	270
1/16	0.010	3.40	7.5	480	480
3/32	0.012	7.26	16.0	920	920
1/8	0.014	12.93	28.5	1,700	1,700
5/32	0.016	19.50	43.0	2,600	2,400
3/16	0.018	28.10	62.0	3,700	3,700
1/4	0.018	48.30	106	6,100	6,100
5/16	0.022	75.80	167	9,200	9,000
3/8	0.026	109.00	240	13,100	12,600
7x19					
1/16	0.010	3.40	7.5	480	480
3/32	0.012	7.89	17.4	1,000	920
1/8	0.014	13.15	29.0	2,000	1,760
5/32	0.016	20.40	45.0	2,800	2,400
3/16	0.018	29.48	65.0	4,200	3,700
7/32	0.018	39.00	86.0	5,600	5,000
1/4	0.018	49.90	110.0	7,000	6,400
9/32	0.020	63.00	139.0	8,000	7,800
5/16	0.022	78.50	173.0	9,800	9,000
3/8	0.026	110.20	243.0	14,400	12,000
1x19					
3/64	0.008	2.14	4.7	280	280
1/16	0.010	3.81	8.4	500	500
3/32	0.012	8.55	18.9	1,200	1,200
1/8	0.014	15.26	33.6	2,100	2,100
5/32	0.016	23.80	52.5	3,300	3,300
3/16	0.018	34.20	75.4	4,700	4,700
1/4	0.018	60.80	134	8,200	8,200
5/16	0.022	95.10	210	12,500	12,500
3/8	0.026	137.00	302	18,000	17,500



New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

Shanghai
Tel: 86-21-54810680
Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com

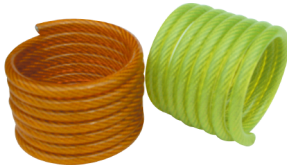
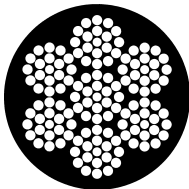
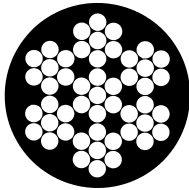


STEEL WIRE ROPE

PVC/PP/PE COATED CABLE

Specification: RR-W-410E

Improved Plow Steel



Diameter(inch)		Unit Weight		Breaking Strength lb
Inner Cable	Outer Cover	Total		
		lb/1000'	kg/1000'	
7x7 PVC/PP/PE				
3/64	1/16	5.04	2.29	270
3/64	5/64	6.13	2.78	270
1/16	3/32	9.90	4.49	480
1/16	1/8	13.28	6.02	480
3/32	1/8	19.40	8.80	920
3/32	5/32	23.72	10.76	920
3/32	3/16	29.02	13.16	920
1/8	5/32	32.84	14.90	1,700
1/8	3/16	38.14	17.30	1,700
3/16	1/4	75.50	34.24	3,700
3/16	5/16	92.82	42.10	3,700
7x19 PVC/PP/PE				
3/32	1/8	20.77	9.42	1,000
3/32	5/32	25.12	11.40	1,000
3/32	3/16	30.42	13.80	1,000
1/8	5/32	33.34	15.12	2,000
1/8	3/16	38.64	17.52	2,000
5/32	7/32	56.56	25.65	2,800
5/32	1/4	63.80	28.94	2,800
3/16	1/4	78.50	35.60	4,200
3/16	5/16	95.82	43.46	4,200
1/4	5/16	127.40	57.80	7,000
1/4	3/8	148.60	67.40	7,000
5/16	3/8	194.20	88.10	9,800
5/16	7/16	219.30	99.50	9,800
3/8	7/16	268.10	121.60	14,400
3/8	1/2	297.00	134.70	14,400

The biggest size of vinyl coated cable is 1".



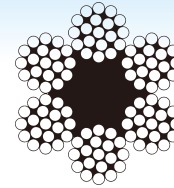
New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

Shanghai
Tel: 86-21-54810680
Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com

STEEL WIRE ROPE

Specification: RR-W-410E
6x19 FC



6x19+FC

Improved Plow Steel (IPS)

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb		
1/4	5,480	4,940	96	43.8
5/16	8,520	7,660	151	68.6
3/8	12,200	10,980	216	98
7/16	16,540	14,880	287	130
1/2	21,400	19,260	375	170
9/16	27,000	24,300	474	215
5/8	33,400	30,000	586	266
3/4	47,600	42,800	844	383
7/8	64,400	58,000	1,151	522
1	83,600	75,200	1,501	681
1-1/8	105,200	94,600	1,900	862
1-1/4	129,200	116,200	2,346	1,064
1-3/8	155,400	139,800	2,840	1,288
1-1/2	184,000	165,600	3,377	1,532

Extra Improved Plow Steel (EIPS)

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb		
1/4	6,300	5,680	96	43.8
5/16	9,800	8,810	151	68.6
3/8	14,000	12,600	216	98
7/16	19,000	17,100	287	130
1/2	24,600	22,200	375	170
9/16	31,100	28,000	474	215
5/8	38,400	34,500	586	266
3/4	54,700	49,200	844	383
7/8	74,100	66,700	1,151	522
1	96,100	86,500	1,501	681
1-1/8	121,000	108,800	1,900	862
1-1/4	148,600	133,600	2,346	1,064
1-3/8	178,700	160,800	2,840	1,288
1-1/2	211,600	190,400	3,377	1,532

New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

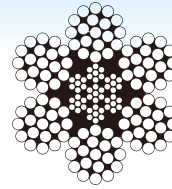
Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

Shanghai
Tel: 86-21-54810680
Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com



STEEL WIRE ROPE

Specification: RR-W-410E
6x19 IWRC



6x19+IWRC

Improved Plow Steel (IPS)

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
1/4	5,880	5,300	106	48.2
5/16	9,160	8,240	166	75.5
3/8	13,120	11,800	238	108
7/16	17,780	16,000	315	143
1/2	23,000	20,700	412	187
9/16	29,000	26,100	522	237
5/8	35,800	32,200	646	293
3/4	51,200	46,000	930	422
7/8	69,200	62,200	1,265	574
1	89,800	80,800	1,653	750
1-1/8	113,000	101,800	2,094	950
1-1/4	138,000	125,000	2,582	1,171
1-3/8	167,000	150,400	3,126	1,418
1-1/2	197,000	178,000	3,719	1,687

Extra Improved Plow Steel (EIPS)

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
1/4	6,800	6,120	106	48.2
5/16	10,540	9,480	166	75.5
3/8	15,100	13,600	238	108
7/16	20,400	18,360	315	143
1/2	26,600	24,000	412	187
9/16	33,600	30,200	522	237
5/8	41,200	37,000	646	293
3/4	58,800	53,000	930	422
7/8	79,600	71,600	1,265	574
1	103,400	93,000	1,653	750
1-1/8	130,000	117,000	2,094	950
1-1/4	159,800	143,800	2,582	1,171
1-3/8	192,000	172,800	3,126	1,418
1-1/2	228,000	206,000	3,719	1,687



New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499

<http://dragonsteelproducts.com>

E-mail: sales@dragonsteelproducts.com

Qingdao

Tel: 86-532-81970686

Fax: 86-532-81970685

E-mail: qingdao@dragonsteelproducts.com

Shanghai

Tel: 86-21-54810680

Fax: 86-21-54810003

E-mail: sho@dragonwirerope.com

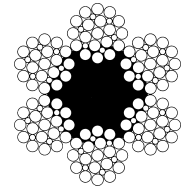
STEEL WIRE ROPE

Specification: RR-W-410E

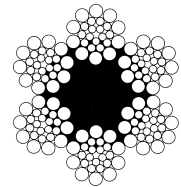
6x25(Fi) FC, 6x26(WS) FC, 6x19(S) FC, 6x19(W) FC,
6x36(WS) FC

Improved Plow Steel (IPS)

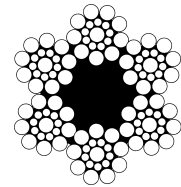
Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
5/16	8,520	7,660	166	75.5
3/8	12,200	10,980	238	108
7/16	16,540	14,880	315	143
1/2	21,400	19,260	412	187
9/16	27,000	24,300	522	237
5/8	33,400	30,000	644	292
3/4	47,600	42,800	928	421
7/8	64,400	58,000	1,263	573
1	83,600	75,200	1,649	748
1-1/8	105,200	94,600	2,088	947
1-1/4	129,200	116,200	2,575	1,168
1-3/8	155,400	139,800	3,117	1,414
1-1/2	184,000	165,600	3,708	1,682



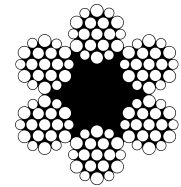
6x25(Fi)+FC



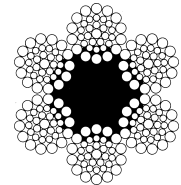
6x26(WS)+FC



6x19(S)+FC



6x19(W)+FC



6x36(WS)+FC

Extra Improved Plow Steel (EIPS)

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
5/16	9,800	8,810	166	75.5
3/8	14,000	12,600	238	108
7/16	19,000	17,100	315	143
1/2	24,600	22,200	412	187
9/16	31,100	28,000	522	237
5/8	38,400	34,500	644	292
3/4	54,700	49,200	928	421
7/8	74,100	66,700	1,263	573
1	96,100	86,500	1,649	748
1-1/8	121,000	108,800	2,088	947
1-1/4	148,600	133,600	2,575	1,168
1-3/8	178,700	160,800	3,117	1,414
1-1/2	211,600	190,400	3,708	1,682

New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

Shanghai
Tel: 86-21-54810680
Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com

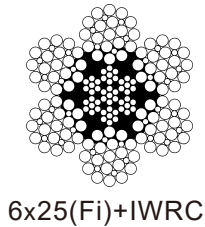


STEEL WIRE ROPE

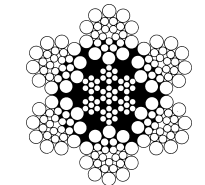
Specification: RR-W-410E

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6x19(W) IWRC, 6x36(WS) IWRC

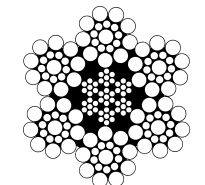
Improved Plow Steel (IPS)



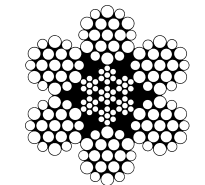
6x25(Fi)+IWRC



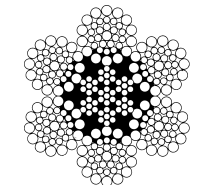
6x26(WS)+IWRC



6x19(S)+IWRC



6x19(W)+IWRC



6x36(WS)+IWRC

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
5/16	9,160	8,240	183	83.1
3/8	13,120	11,800	260	118
7/16	17,780	16,000	347	157
1/2	23,000	20,700	454	206
9/16	29,000	26,100	573	260
5/8	35,800	32,200	710	322
3/4	51,200	46,000	1,021	463
7/8	69,200	62,200	1,389	630
1	89,800	80,800	1,814	823
1-1/8	113,000	101,800	2,295	1,041
1-1/4	138,000	125,000	2,833	1,285
1-3/8	167,000	150,400	3,430	1,556
1-1/2	197,000	178,000	4,080	1,851

Extra Improved Plow Steel (EIPS)

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
5/16	10,540	9,480	183	83.1
3/8	15,100	13,600	260	118
7/16	20,400	18,360	347	157
1/2	26,600	24,000	454	206
9/16	33,600	30,200	573	260
5/8	41,200	37,000	710	322
3/4	58,800	53,000	1,021	463
7/8	79,600	71,600	1,389	630
1	103,400	93,000	1,814	823
1-1/8	130,000	117,000	2,295	1,041
1-1/4	159,800	143,800	2,833	1,285
1-3/8	192,000	172,800	3,430	1,556
1-1/2	228,000	206,000	4,080	1,851



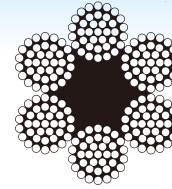
New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

Shanghai
Tel: 86-21-54810680
Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com

STEEL WIRE ROPE

Specification: RR-W-410E
6x37 FC, multiple operation



Improved Plow Steel (IPS)

6x37+FC

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
1/4	5,180	4,660	96	43.8
5/16	8,060	7,260	151	68.6
3/8	11,540	10,380	216	98
7/16	15,640	14,080	287	130
1/2	20,400	18,360	375	170
9/16	25,800	23,200	474	215
5/8	31,600	28,400	586	266
3/4	45,200	40,600	844	383
7/8	61,200	55,000	1,151	522
1	79,600	71,600	1,501	681
1-1/8	100,200	90,100	1,900	862
1-1/4	123,000	110,600	2,346	1,064
1-3/8	148,000	133,100	2,840	1,288
1-1/2	175,200	157,600	3,377	1,532

Extra Improved Plow Steel (EIPS)

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
1/4	6,020	5,400	96	43.8
5/16	9,400	8,460	151	68.6
3/8	13,400	12,060	216	98
7/16	18,200	16,400	287	130
1/2	23,600	21,200	375	170
9/16	29,800	26,800	474	215
5/8	36,800	33,100	586	266
3/4	52,400	47,100	844	383
7/8	70,800	63,600	1,151	522
1	92,000	82,700	1,501	681
1-1/8	115,200	103,600	1,900	862
1-1/4	141,400	127,200	2,346	1,064
1-3/8	170,200	153,000	2,840	1,288
1-1/2	201,400	181,000	3,377	1,532

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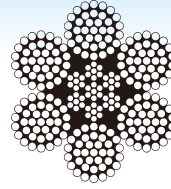
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STEEL WIRE ROPE

Specification: RR-W-410E
6x37 IWRC, multiple operation



Improved Plow Steel (IPS)

6x37+IWRC

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
1/4	5,560	5,000	106	48.2
5/16	8,660	7,800	166	75.5
3/8	12,400	11,160	238	108
7/16	16,820	15,140	315	143
1/2	22,000	19,800	412	187
9/16	27,800	25,000	522	237
5/8	34,000	30,600	646	293
3/4	48,600	43,800	930	422
7/8	65,800	59,200	1,265	574
1	85,600	77,000	1,653	750
1-1/8	107,600	96,800	2,094	950
1-1/4	131,400	118,200	2,582	1,171
1-3/8	159,000	143,000	3,126	1,418
1-1/2	187,600	168,600	3,719	1,687

Extra Improved Plow Steel (EIPS)

Nominal Diameter	Min. Breaking Strength		Unit Weight	
	Ungalv.	Galvanized	lb/1000'	kg/1000'
inch	lb	lb	lb/1000'	kg/1000'
1/4	6,400	5,760	106	48.2
5/16	9,960	8,960	166	75.5
3/8	14,280	12,860	238	108
7/16	19,340	17,400	315	143
1/2	25,200	22,600	412	187
9/16	31,800	28,600	522	237
5/8	39,200	35,200	646	293
3/4	55,800	50,200	930	422
7/8	75,600	68,000	1,265	574
1	98,200	88,400	1,653	750
1-1/8	123,400	111,000	2,094	950
1-1/4	151,800	136,600	2,582	1,171
1-3/8	182,200	164,000	3,126	1,418
1-1/2	216,400	194,800	3,719	1,687



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Qingdao

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Fax: 86-532-81970685

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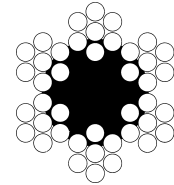
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STEEL WIRE ROPE

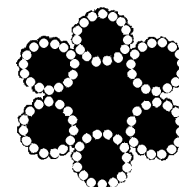
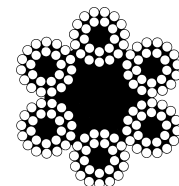
Specification: RR-W-410D
Improved Plow Steel

6x7+FC

Rope Diameter		Approx. Weight		Minimum Breaking Strength	
Nominal (minimum)	Maximum			Uncoated	Galvanized
inch	inch	lb/1000'	kg/1000'	lb	lb
1/4	0.265	97	44	5,280	4,760
5/16	0.328	151	69	8,200	7,380
3/8	0.394	218	99	11,720	10,540
7/16	0.459	296	134	15,860	14,280
1/2	0.525	387	176	20,600	18,540
9/16	0.591	490	222	26,000	23,400
5/8	0.656	605	274	31,800	28,600
3/4	0.788	871	395	45,400	40,800



Rope Diameter		Approx. Weight		Minimum Breaking Strength	Acceptance Breaking Strength
Nominal (minimum)	Maximum				
inch	inch	lb/1000'	kg/1000'	lb	lb
6x24+7FC, Galvanized					
3/8	0.394	194	88	9,540	9,300
7/16	0.459	264	120	12,900	12,600
1/2	0.525	344	156	16,800	16,380
9/16	0.591	437	198	21,200	20,700
5/8	0.656	539	245	26,000	25,400
3/4	0.788	776	352	37,200	36,200
13/16	0.853	911	413	43,600	42,600
7/8	0.919	1057	479	50,400	49,200
1	1.050	1380	626	65,600	64,000
1-1/8	1.181	1747	792	82,400	80,400
1-1/4	1.313	2156	978	101,400	98,800
6x15+7FC, Ungalvanized					
3/8	0.394	140	64	6,400	-
1/2	0.525	250	114	11,400	-
9/16	0.591	320	144	15,100	-
5/8	0.656	390	178	18,700	-
3/4	0.788	560	255	26,900	-
7/8	0.919	770	348	36,300	-



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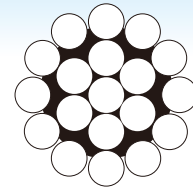
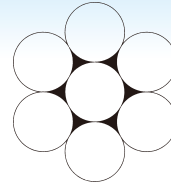
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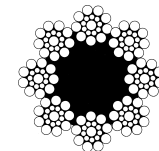
STEEL WIRE ROPE

Specification: ASTM A 475
Hot Dip Galvanized Strands, Class A

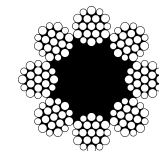


Nominal Diameter	Construction	Nominal Diameter of Wires	Approx Weight		Min. Breaking Strength		Weight of Zinc Coating (Grade A)	
			lb/ft.	kg/1000'	High Strength	Extra High Strength	oz/sq.ft	g/sq.m
inch		inch			lb	lb		
1/8	1x7	0.041	0.032	14.5	1,330	1,830	0.40	122
5/32	1x7	0.052	0.051	23	2,140	2,940	0.40	122
3/16	1x7	0.062	0.073	33	2,850	3,990	0.50	153
7/32	1x7	0.072	0.098	45	3,850	5,400	0.50	153
1/4	1x7	0.080	0.121	55	4,750	6,650	0.60	183
9/32	1x7	0.093	0.164	74	6,400	8,950	0.70	214
5/16	1x7	0.109	0.205	93	8,000	11,200	0.80	244
3/8	1x7	0.120	0.273	124	10,800	15,400	0.80	244
7/16	1x7	0.145	0.399	181	14,500	20,800	0.90	275
1/2	1x7	0.165	0.517	235	18,800	26,900	0.90	275
9/16	1x7	0.188	0.671	304	24,500	35,000	1.00	305
1/2	1x19	0.100	0.504	229	19,100	26,700	0.70	214
9/16	1x19	0.113	0.637	289	24,100	33,700	0.80	244
5/8	1x19	0.125	0.796	362	28,100	40,200	0.85	259

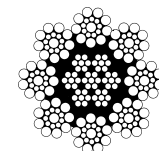
Specification: RR-W-410E
8x19 Class, FC or IWRC, Rotation Resistant
Improved Plow Steel (IPS)



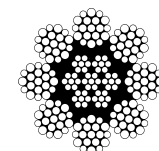
8 x 19 (S)+FC



8 x 19 (W)+FC



8 x 19 (S)+IWRC



8 x 19 (W)+IWRC

Nominal (ordered) (minimum)	Approx Weight		Minimum Breaking Strength			
			Ungalvanized		Galvanized	
	FC	IWRC	FC	IWRC	FC	IWRC
inch	kg/ft	kg/ft	lb	lb	lb	lb
1/4	0.043	0.052	4,700	5,540	4,240	5,000
5/16	0.067	0.082	7,300	8,620	6,580	7,760
3/8	0.096	0.118	10,480	12,360	9,440	11,140
7/16	0.131	0.160	14,180	16,730	12,760	15,060
1/2	0.171	0.209	18,460	21,780	16,620	19,600
9/16	0.217	0.265	23,200	27,380	20,800	24,540
5/8	0.267	0.327	28,600	33,740	25,800	30,440
3/4	0.385	0.470	41,000	48,400	37,000	43,660
7/8	0.525	0.641	55,400	65,400	49,800	58,800
1	0.685	0.836	72,000	85,000	64,800	76,500
1-1/8	0.867	1.059	90,600	106,900	81,600	96,300



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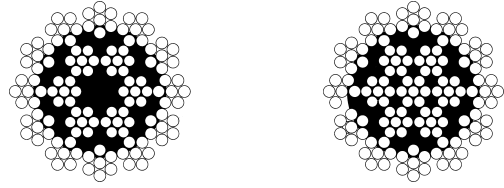
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Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com

STEEL WIRE ROPE

Specification: RR-W-410E
18x7+FC or 19x7 Rotation Resistant

Improved Plow Steel (IPS)



Nominal Diameter (minimum)	Approx. Weight		Minimum Breaking Strength	
	FC	WSC	Ungalv.	Galvanized
inch	kg/ft	kg/ft	lb	lb
3/16	0.027	0.028	2,860	2,580
1/4	0.047	0.049	5,020	4,520
5/16	0.074	0.077	7,800	7,020
3/8	0.106	0.111	11,180	10,060
7/16	0.144	0.151	15,160	13,640
1/2	0.188	0.198	19,700	17,740
9/16	0.239	0.250	24,800	22,400
5/8	0.295	0.309	30,600	27,600
3/4	0.424	0.445	43,600	39,200
7/8	0.577	0.606	59,000	53,100
1	0.754	0.791	76,600	69,000

Extra Improved Plow Steel (EIPS)

Nominal Diameter (minimum)	Approx. Weight		Minimum Breaking Strength	
	FC	WSC	Ungalv.	Galvanized
inch	kg/ft	kg/ft	lb	lb
3/16	0.027	0.028	3,140	2,820
1/4	0.047	0.049	5,520	4,980
5/16	0.074	0.077	8,600	7,740
3/8	0.106	0.111	12,300	11,080
7/16	0.144	0.151	16,660	15,000
1/2	0.188	0.198	21,600	19,440
9/16	0.239	0.250	27,200	24,400
5/8	0.295	0.309	33,600	30,200
3/4	0.424	0.445	48,000	43,200
7/8	0.577	0.606	65,000	58,500
1	0.754	0.791	84,400	76,000

New York
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Fax: 1-212-717-1499
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Fax: 86-532-81970685
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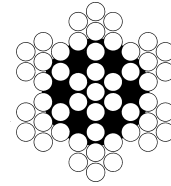
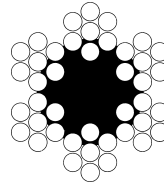
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STEEL WIRE ROPE

Specification: DIN3055

6x7+FC, 6x7+WSC (7x7)



Nominal Diameter	Approx. Weight		Nominal Tensile Strength					
			1570 N/mm2		1770 N/mm2		1960 N/mm2	
	kg/100m		Minimum Breaking Strength (kn)					
mm	FC	WSC	FC	WSC	FC	WSC	FC	WSC
1.2	0.514	0.566	-	-	0.85	0.91	0.94	1.01
1.5	0.80	0.88	-	-	1.32	1.43	1.46	1.58
1.8	0.64	1.27	-	-	1.90	2.06	2.10	2.28
2.0	1.43	1.57	-	-	2.35	2.54	2.60	2.81
2.5	2.23	2.46	-	-	3.67	3.97	4.06	4.40
3.0	3.22	3.54	-	-	5.29	5.71	5.86	6.32
4.0	5.72	6.29	-	-	9.41	10.2	10.4	11.3
5.0	8.94	9.83	-	-	14.7	15.9	16.3	17.6
6.0	12.9	14.2	-	-	21.1	22.9	23.4	25.4
7.0	17.5	19.3	-	-	28.8	31.1	31.9	34.4
8.0	22.9	25.2	33.4	36.1	37.6	40.6	41.6	45.0
9.0	28.9	31.8	42.2	45.6	47.6	51.4	-	-
10	35.7	39.3	52.2	56.3	58.8	63.5	-	-
11	43.2	47.5	63.1	68.2	71.1	76.8	-	-
12	51.5	56.7	75.1	81.1	84.7	91.5	-	-
13	60.4	66.4	88.1	95.2	99.4	107	-	-
14	70.1	77.1	102	110	115	124	-	-
16	91.5	101.0	134	144	-	-	-	-
18	116.0	128.0	169	183	-	-	-	-
20	143.0	157.0	209	225	-	-	-	-



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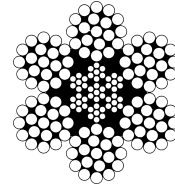
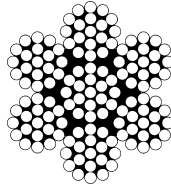
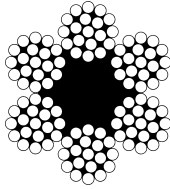
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Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com

STEEL WIRE ROPE

Specification: DIN3060

6x19+FC, 6x19+WSC or IWRC



Nominal Diameter	Approx. Weight		Nominal Tensile Strength					
			1570 N/mm ²		1770 N/mm ²		1960 N/mm ²	
	kg/100m		Minimum Breaking Strength (kn)					
mm	FC	WSC	FC	WSC	FC	WSC	FC	WSC
2	1.38	1.52	-	-	2.18	2.35	2.41	2.60
2.5	2.16	2.38	-	-	3.40	3.67	3.76	4.06
3	3.11	3.42	-	-	4.90	5.29	5.43	5.86
4	5.54	6.09	-	-	8.70	9.40	9.63	10.40
5	8.65	9.52	-	-	13.6	14.7	15.1	16.3
6	12.5	13.8	-	-	19.6	21.2	21.7	23.5
7	17.0	18.7	-	-	26.7	28.8	29.6	31.9
8	22.1	24.3	30.9	33.3	34.8	37.6	38.5	41.6
9	28.0	30.8	39.1	42.2	44.1	47.6	48.8	52.7
10	34.6	38.1	48.2	52.1	54.4	58.8	60.2	65.1
11	41.9	46.1	58.4	63.1	65.8	71.1	72.9	78.7
12	49.8	54.8	69.5	75.0	78.3	84.6	86.7	93.7
13	58.5	64.3	81.5	88.1	91.9	99.3	-	-
14	67.8	74.6	94.6	102	107	115	-	-
16	88.6	97.4	124	133	139	150	-	-
18	112	123	156	169	176	190	-	-
20	138	152	193	208	218	235	-	-
22	167	184	234	252	263	284	-	-
24	199	219	278	299	313	338	-	-
26	234	257	326	352	368	397	-	-
28	271	298	378	409	-	-	-	-
30	311	343	434	470	-	-	-	-
32	354	390	494	534	-	-	-	-
36	448	494	625	675	-	-	-	-

New York
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Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
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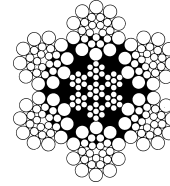
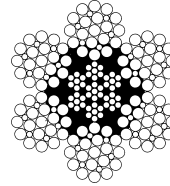
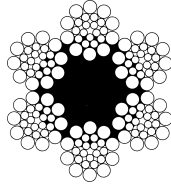
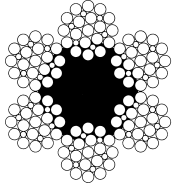


STEEL WIRE ROPE

Specification: DIN3057

6x25(Fi)+FC, 6x25(Fi)+IWRC

6x26(WS)+FC, 6x26(WS)+IWRC



Nominal Diameter	Approx. Weight		Nominal Tensile Strength			
			1570 N/mm ²		1770 N/mm ²	
	kg/100m		Minimum Breaking Strength (kn)			
mm	FC	IWRC	FC	IWRC	FC	IWRC
8	24.3	26.8	33.9	36.6	38.3	41.3
9	30.8	33.9	42.9	46.4	48.4	52.3
10	38.0	41.8	53.0	57.3	59.8	64.6
11	46.0	50.6	64.2	69.3	72.3	78.1
12	54.7	60.2	76.3	82.5	86.1	93.0
13	64.3	70.6	89.6	96.8	101	109
14	74.5	82.0	104	112	117	127
15	85.5	94.1	119	129	135	145
16	97.3	107	136	147	153	165
17	110	121	153	166	173	187
18	123	135	172	186	194	209
19	137	151	191	207	216	233
20	152	167	212	229	239	258
22	184	202	257	277	289	312
24	219	241	305	330	344	372
26	257	283	358	387	404	436
28	298	328	416	449	469	506
30	342	376	478	515	538	581
32	389	428	543	586	612	661
36	493	542	687	742	775	837



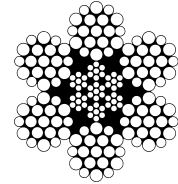
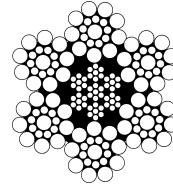
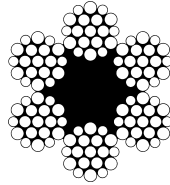
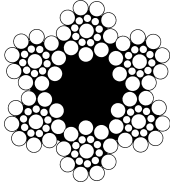
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 Tel: 1-212-717-1496
 Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
 E-mail: sales@dragonsteelproducts.com

Qingdao
 Tel: 86-532-81970686
 Fax: 86-532-81970685
 E-mail: qingdao@dragonsteelproducts.com

Shanghai
 Tel: 86-21-54810680
 Fax: 86-21-54810003
 E-mail: sho@dragonwirerope.com

STEEL WIRE ROPE

Specification: DIN3058
 6x19(S)+FC, 6x19(S)+IWRC
 6x19(W)+FC, 6x19(W)+IWRC



Nominal Diameter	Approx.Weight		Nominal Tensile Strength			
			1570 N/mm ²		1770 N/mm ²	
	kg/100m		Minimum Breaking Strength (kn)			
mm	FC	IWRC	FC	IWRC	FC	IWRC
6	13.4	14.8	-	-	21.1	22.8
7	18.3	20.1	-	-	28.7	31.0
8	23.8	26.2	33.2	35.9	37.5	40.5
9	30.2	33.2	42.1	45.5	47.4	51.2
10	37.3	41.0	52.0	56.1	58.6	63.8
11	45.1	49.6	62.9	67.9	70.9	76.5
12	53.7	59.0	74.8	80.8	84.3	91.1
13	63.0	69.3	87.8	94.8	99.0	107
14	73.1	80.4	102	110	115	124
15	83.9	92.3	117	126	132	142
16	95.5	105	133	144	150	162
17	108	119	150	162	169	183
18	121	133	168	182	190	205
19	135	148	188	203	211	228
20	149	164	208	224	234	253
22	181	198	251	272	283	306
24	215	236	299	323	337	364
26	252	277	351	379	396	428
28	292	321	407	440	459	496
30	336	369	467	505	527	569
32	382	420	532	575	-	-
36	483	531	673	727	-	-

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 Tel: 1-212-717-1496
 Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
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 Fax: 86-532-81970685
 E-mail: qingdao@dragonsteelproducts.com

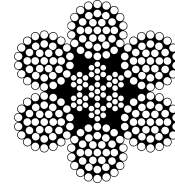
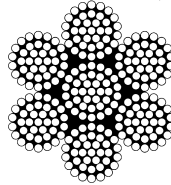
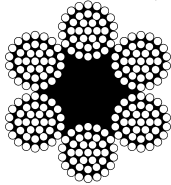
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 Tel: 86-21-54810680
 Fax: 86-21-54810003
 E-mail: sho@dragonwirerope.com



STEEL WIRE ROPE

Specification: DIN3066

6x37+FC, 6x37+WSC or IWRC



Nominal Diameter	Approx. Weight		Nominal Tensile Strength					
			1570 N/mm ²		1770 N/mm ²		1960 N/mm ²	
	kg/100m		Minimum Breaking Strength (kn)					
mm	FC	WSC	FC	WSC	FC	WSC	FC	WSC
5	8.65	9.53	-	-	13.1	14.1	14.5	15.6
6	12.5	13.7	-	-	18.8	20.3	20.8	22.5
7	17.0	18.6	-	-	25.6	27.6	28.3	30.6
8	22.1	24.4	29.6	32.0	33.4	36.1	37.0	40.0
9	28.0	30.8	37.5	40.5	42.3	45.7	46.8	50.6
10	34.6	38.1	46.3	50.0	52.2	56.4	57.8	62.5
11	41.9	46.1	56.0	60.5	63.1	68.2	69.9	75.5
12	49.8	54.8	66.6	72.0	75.1	81.2	83.2	89.9
13	58.5	64.3	78.2	84.5	88.2	95.2	97.7	105.4
14	67.8	74.6	90.7	98.0	102	110	112.9	121.8
16	88.6	97.4	118	128	134	144	148.4	159.5
18	112	123	150	162	169	183	187.1	202.6
20	138	152	185	200	209	225	-	-
22	167	184	224	242	253	273	-	-
24	199	219	267	288	301	325	-	-
26	234	257	313	338	353	381	-	-
28	271	298	363	392	409	442	-	-
32	354	390	474	512	534	577	-	-
36	448	493	600	648	676	730	-	-
40	554	609	741	800	-	-	-	-
44	670	737	896	968	-	-	-	-
48	797	878	1070	1150	-	-	-	-



New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

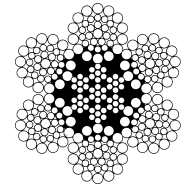
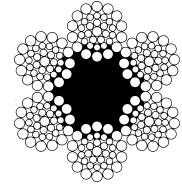
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Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com

STEEL WIRE ROPE

Specification: DIN3064

6x36(WS)+FC, 6x36(WS)+IWRC

Nominal Diameter	Approx. Weight		Nominal Tensile Strength			
			1570 N/mm2		1770 N/mm2	
	kg/100m		Minimum Breaking Strength (kn)			
mm	FC	IWRC	FC	IWRC	FC	IWRC
12	54.7	60.2	74.4	80.6	84.0	89.9
13	64.3	70.7	87.4	94.6	98.3	106
14	74.5	82.0	101	109	114	124
16	97.3	107	133	143	149	161
18	123	135	168	181	189	204
20	152	167	203	221	234	252
22	184	202	250	271	282	304
24	219	241	298	322	336	363
26	257	283	340	378	395	425
28	298	328	405	438	458	493
32	389	428	530	571	598	644
36	493	542	670	724	-	-
40	608	669	828	894	-	-
44	736	810	1000	1080	-	-



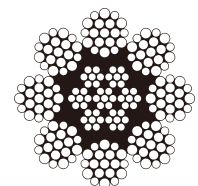
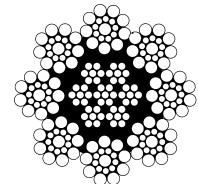
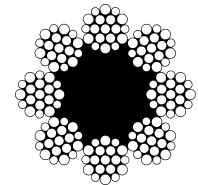
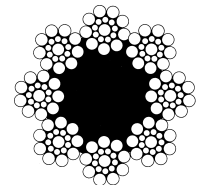
Specification: DIN3062

8x19(S)+FC, 8x19(S)+IWRC

Specification: DIN3063

8x19(W)+FC, 8x19(W)+IWRC

Nominal Diameter	Approx. Weight		Nominal Tensile Strength			
			1570 N/mm2		1770 N/mm2	
	kg/100m		Minimum Breaking Strength (kn)			
mm	FC	IWRC	FC	IWRC	FC	IWRC
10	34.8	42.5	45.1	53.2	50.8	59.9
11	42.2	51.4	54.5	64.3	61.5	72.5
12	50.2	61.2	64.9	76.6	73.2	86.3
13	58.9	71.9	76.1	89.8	85.9	101
14	68.3	83.3	88.3	104	99.6	117
15	78.4	95.7	101	120	114	135
16	89.2	109	115	136	130	153
17	101	123	130	154	147	173
18	113	138	146	172	165	194
19	126	153	163	192	183	216
20	139	170	180	213	203	240
22	169	206	218	257	246	290
24	201	245	260	306	293	345



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Fax: 1-212-717-1499
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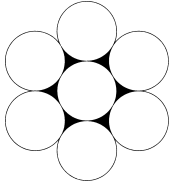
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Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

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Tel: 86-21-54810680
Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com



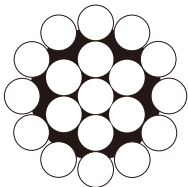
STEEL WIRE ROPE

Specification: DIN3052 1x7



Nominal Diameter	Approx. Weight	Nominal Tensile Strength	
		1570 N/mm ²	1770 N/mm ²
		Min Breaking Strength	
mm	kg/100m	kn	kn
0.6	0.18	0.308	0.347
0.8	0.32	0.547	0.617
1.0	0.50	0.855	0.963
1.5	1.13	1.92	2.17
2.0	2.01	3.42	3.85
2.5	3.14	5.34	6.02
3.0	4.52	7.69	8.67
3.5	6.15	10.5	11.8
4.0	8.03	13.7	15.4
4.5	10.2	17.3	19.5
5.0	12.6	21.4	-
6.0	18.1	30.8	-
7.0	24.6	41.9	-
8.0	32.1	54.7	-

Specification: DIN3053 1x19



Nominal Diameter	Approx. Weight	Nominal Tensile Strength	
		1570 N/mm ²	1770 N/mm ²
		Min Breaking Strength	
mm	kg/100m	kn	kn
1.0	0.50	0.825	0.93
1.2	0.71	1.19	1.34
1.5	1.11	1.86	2.09
2.0	1.98	3.30	3.72
2.5	3.10	5.15	5.81
3.0	4.46	7.42	8.37
3.5	6.06	10.1	11.4
4.0	7.93	13.2	14.9
5.0	12.4	20.6	23.2
6.0	17.8	29.7	33.5
7.0	24.3	40.4	45.6
8.0	31.7	52.8	59.5
9.0	40.1	66.8	75.3
10	49.5	82.5	93.0
11	59.9	99.8	-
12	71.3	119	-



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Fax: 1-212-717-1499
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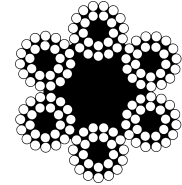
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Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

Shanghai
Tel: 86-21-54810680
Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com

STEEL WIRE ROPE

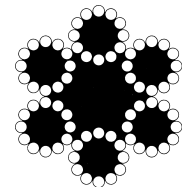
Specification: DIN3068 6x24+7FC

Nominal Diameter	Approx. Weight	Nominal Tensile Strength	
		1570 N/mm ²	1770 N/mm ²
		Min Breaking Strength	
mm	kg/100m	kn	kn
6	11.45	-	17.9
7	15.6	-	24.3
8	20.4	28.2	31.8
9	25.8	35.6	40.1
10	31.8	44.0	49.6
11	38.5	53.2	60.0
12	45.8	63.3	71.4
13	53.8	74.3	83.8
14	62.4	86.2	97.2
16	81.5	113	127
18	103	143	161
20	127	176	198
22	154	213	240
24	183	253	285
26	215	297	335



Specification: BS302 6x12+7FC

Nominal Diameter	Approx. Weight	Nominal Tensile Strength	
		1570 N/mm ²	1770 N/mm ²
		Min Breaking Strength	
mm	kg/100m	kn	kn
2	1.00	-	1.48
3	2.26	-	3.33
4	4.02	-	5.92
5	6.28	-	9.25
6	9.04	-	13.3
7	12.3	-	18.1
8	16.1	21.0	23.7
9	20.3	26.6	30.0
10	25.1	32.8	37.0
12	36.1	47.3	53.3
14	49.2	64.3	72.5
16	64.3	84.0	94.7



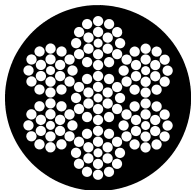
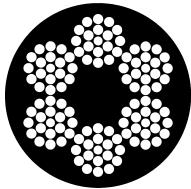
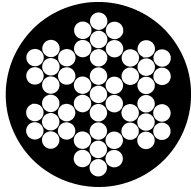
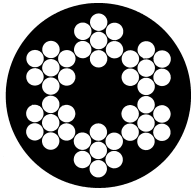
New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

Shanghai
Tel: 86-21-54810680
Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com



PVC/PP/PE Coated Cables



Construction	Diameter mm	Unit Weight kg/100m	MBS (kn)	
			1770 N/mm2	1960 N/mm2
6x7+FC Galv.	1.5 -- 2.5	1.27	1.32	1.46
	2.0 -- 3.0	2.00	2.35	2.60
	3.0 -- 4.0	4.02	5.29	5.86
	3.0 -- 5.0	5.04	5.29	5.86
	4.0 -- 5.0	6.74	9.41	10.4
	4.0 -- 6.0	8.00	9.41	10.4
	5.0 -- 6.0	10.18	14.7	16.3
	6.0 -- 8.0	16.04	21.1	23.4
7x7 Galv.	8.0 -- 10	26.95	37.6	41.6
	1.5 -- 2.5	1.35	1.43	1.58
	2.0 -- 3.0	2.14	2.54	2.81
	3.0 -- 4.0	4.34	5.71	6.32
	3.0 -- 5.0	5.36	5.71	6.32
	4.0 -- 5.0	7.31	10.2	11.3
	4.0 -- 6.0	8.56	10.2	11.3
	5.0 -- 6.0	11.08	15.9	17.6
6x19 FC Galv.	6.0 -- 8.0	17.34	22.9	25.4
	8.0 -- 10	29.25	40.6	45.0
	3.0 -- 4.0	3.91	4.90	5.43
	3.0 -- 5.0	4.93	4.90	5.43
	4.0 -- 5.0	6.56	8.70	9.63
	4.0 -- 6.0	7.82	8.70	9.63
	5.0 -- 6.0	9.90	13.6	15.1
	6.0 -- 8.0	15.64	19.6	21.7
7x19 Galv.	8.0 -- 10	26.24	34.8	38.5
	10 -- 12	39.60	54.4	60.2
	12 -- 14	55.74	78.3	86.7
	3.0 -- 4.0	4.23	5.29	5.86
	3.0 -- 5.0	5.25	5.29	5.86
	4.0 -- 5.0	7.12	9.4	10.4
	4.0 -- 6.0	8.38	9.4	10.4
	5.0 -- 6.0	10.78	14.7	16.3
7x19 Galv.	6.0 -- 8.0	16.90	21.2	23.5
	8.0 -- 10	28.48	37.6	41.6
	10 -- 12	43.10	58.8	65.1
	12 -- 14	60.80	84.6	93.7



New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

Shanghai
Tel: 86-21-54810680
Fax: 86-21-54810003
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PC STRANDS

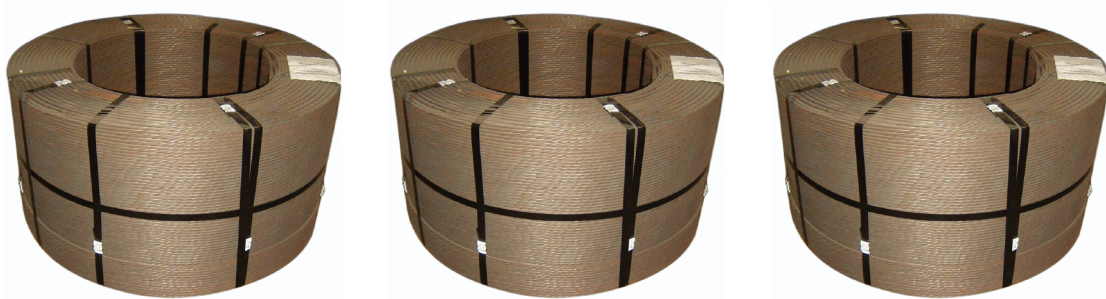
Low Relaxation High Strength Pre-stressed Concrete Strands

ASTM A416/A416M-2002

Nominal Diameter	Min. Breaking Load	Yield Strength	Unit Weight	Cross Section
inch	lb	lb	lb/1000'	square inch
0.375	23,000	20,700	290	0.085
0.438	31,000	27,900	390	0.115
0.500	41,300	37,170	520	0.153
0.600	58,600	52,740	740	0.217

Tensile Strength: Grade 270 (1860 Mpa)
Tolerance: -0.006" / + 0.025"
Lay Length: 12 – 16 x Diameter
Lay Direction: LHL or RHL
Min. Elongation: 3.50%
Modulus of Elasticity: 195+ / -10 GPa
Max. Relaxation: 2.5% (1000lb,70Fb)

PC strands of Britain, China and other standards are also available.
Detailed specification will be provided upon request.



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Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
Tel: 86-532-81970686
Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

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Tel: 86-21-54810680
Fax: 86-21-54810003
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CABLE TIE-OUTS



480LBS Puppy Regular Tie-out

For small dogs.

Cable Size: 1/16"-3/32" Vinyl Coated

Length: 10', 15', 20'



920LBS Light Duty Regular Tie-out

For dogs up to 50lbs.

Cable Size: 3/32"-5/32" Vinyl Coated

Length: 10', 20', 30', 40'



1700LBS Heavy Duty Regular Tie-out

For dogs up to 85lbs.

Cable Size: 1/8"-3/16" Vinyl Coated

Length: 10', 20', 30', 40'



4200LBS Super Regular Tie-out

For dogs up to 250lbs.

Cable Size: 3/16"-1/4" Vinyl Coated

Length: 10', 20', 30'



Silver Reflective Tie-out or Trolley

All sizes are available.



Tanglefree Tie-out

Cable: 3/32"-5/32" Vinyl Coated

1/8"-3/16" Vinyl Coated

Length: 9', 12', 15'



New York

Tel: 1-212-717-1496

Fax: 1-212-717-1499

<http://dragonsteelproducts.com>

E-mail: sales@dragonsteelproducts.com

Qingdao

Tel: 86-532-81970686

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E-mail: sho@dragonwirerope.com

CABLE TIE-OUTS



Dog Trolley

Cable: 3/32"-5/32" Vinyl Coated
1/8"-3/16" Vinyl Coated
3/16"-1/4" Vinyl Coated
Length: 25', 50', 75', 100'



Truck Trolley

Cable: 1/8"-3/16" Vinyl Coated
Length: 4', 5'



Tree Trolley

Cable: 1/8"-1/4" Vinyl Coated
3/16"-1/4" Vinyl Coated
Length: 12'

Notes:

- ★ PVC colors: Clear, Red, Green, Blue, Orange, etc
- ★ Snap Hooks: Malleable, Die-zinc, Brass
- ★ Packing: In clamshell boxes with header cards
- ★ Following items are available:
 - Spiral Stake*Stake Combos With Tie-out 8mmx16", 9mmx18"
 - Dome Stake*Stake Combos With Tie-out 11mmx20", 13mmx24"
 - Spiral Stake With Nylon Handle

New York
Tel: 1-212-717-1496
Fax: 1-212-717-1499
<http://dragonsteelproducts.com>
E-mail: sales@dragonsteelproducts.com

Qingdao
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Fax: 86-532-81970685
E-mail: qingdao@dragonsteelproducts.com

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Tel: 86-21-54810680
Fax: 86-21-54810003
E-mail: sho@dragonwirerope.com

