

۲ - ۹

سیم بکسل

۱۱ - ۱۷

زنجیر در انواع مختلف

۱۹ - ۲۸

مصنوعات (اتصالات)

۳۰ - ۳۶

جرثقیل و وینچ و تجهیزات جابجایی کالا

۳۷ - ۴۸

ابزار و تجهیزات متفرقه

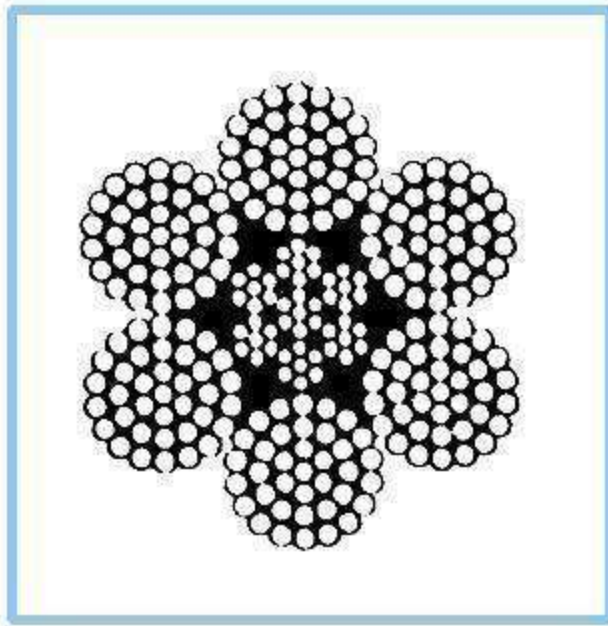
بازرگانی رحیمی



سیم بکسل



6 x 37 + IWRC



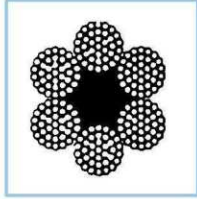
- سیم بکسل 6 x 37 + IWRC فولادی
- جهت استفاده در جرثقیل‌ها و اهداف مهندسی ویژه
- نرم و قابل انعطاف با هسته فولادی

For Crane, Hoist and General Engineering Purposes

Diameter of Rope		Minimum Breaking Load in Metric Tons				Approx. Weight
mm	Approx. Inch	150kg/mm ²	165kg/mm ²	180kg/mm ²	195kg/mm ²	kg/m
6	-	2.02	2.22	2.34	2.52	0.144
6.3	1/4	2.23	2.56	2.58	2.78	0.158
8	5/16	3.59	3.95	4.16	4.49	0.255
9	-	4.55	5.00	5.26	5.68	0.323
9.5	3/8	4.95	5.46	5.87	6.33	0.358
10	13/32	5.50	6.05	6.50	7.02	0.398
11	7/16	6.90	7.58	8.15	8.80	0.500
12	15/32	7.94	8.72	9.37	10.12	0.573
12.5	1/2	8.6	9.45	10.10	10.91	0.622
14	9/16	10.8	11.85	12.75	13.77	0.781
16	5/8	14.1	15.45	16.6	17.9	1.00
18	23/32	17.8	19.5	21.0	22.7	1.29
19	3/4	20.0	22.0	23.7	25.6	1.45
20	13/16	22.0	24.2	26.0	28.1	1.60
22	7/8	27.6	30.4	32.6	35.2	2.00
24	15/16	30.4	33.4	35.9	38.8	2.30
25	1	34.3	37.7	40.5	43.7	2.50
26	1-1/32	37.3	41.0	44.0	47.5	2.68
28	1-1/8	43.2	47.5	51.0	55.1	3.13
30	1-3/16	49.5	54.5	58.5	63.2	3.58
31.5	-	54.6	60.0	64.5	69.7	3.87
33.5	-	62.0	68.0	73.0	78.8	4.47
35.5	-	69.5	76.3	82.0	88.6	5.02
37.5	-	77.4	85.0	91.5	98.8	5.60
40	1-19/32	87.8	96.5	104.0	112.0	6.40
42.5	-	99.0	109.0	117.0	126.4	7.20
45	-	111.0	122.0	131.0	141.5	8.07
47.5	1-7/8	124.0	136.5	146.6	158.0	8.98
50	1-31/32	137.5	151.2	162.5	175.5	9.95
53	2-3/32	154.5	169.9	182.5	197.0	11.18
56	2-7/32	172.4	189.7	203.8	220.0	12.48
60	2-3/8	198.0	217.8	234.0	252.7	14.33
63	2-1/2	218.2	240.0	257.9	278.2	15.80
67	2-5/8	246.0	271.0	291.0	314.0	17.87
71	2-13/16	277.0	304.0	327.0	353.0	20.06
75	2-31/32	309.0	340.0	365.0	394.0	22.39



بازرگانی رحیمی



6 x 37 + FC

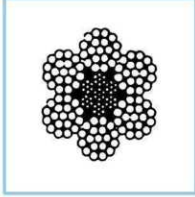
سیم بکسل ۶ x ۳۷ + FC کنفی
جهت استفاده در اهداف صنعتی ویژه
نرم وقابل انعطاف باهسته کنفی

For Crane, Hoist and General Engineering Purposes

Diameter of Rope		Minimum Breaking Load in Metric Tons				Approx. Weight
mm	Approx. Inch	150kg/mm ²	165kg/mm ²	180kg/mm ²	195kg/mm ²	kg/m
6	-	1.80	1.95	2.07	2.24	0.129
6.3	1/4	1.98	2.15	2.29	2.47	0.143
8	5/16	3.19	3.46	3.69	3.99	0.230
9	-	4.04	4.38	4.67	5.04	0.291
9.5	3/8	4.50	4.90	5.23	5.61	0.323
10	13/32	4.98	5.41	5.76	6.22	0.359
11	7/16	6.26	6.79	7.23	7.81	0.451
12	15/32	7.19	7.79	8.29	8.95	0.517
12.5	1/2	7.80	8.45	9.0	9.72	0.561
14	9/16	9.81	10.6	11.3	12.2	0.704
16	5/8	12.8	13.8	14.7	15.9	0.92
18	23/32	16.2	17.5	18.7	20.2	1.16
19	3/4	18.2	19.8	20.5	22.7	1.31
20	13/16	19.9	21.6	23.0	24.8	1.44
22	7/8	25.0	27.1	28.9	31.2	1.80
24	15/16	28.7	31.2	33.2	35.9	2.07
25	1	31.2	33.8	36.0	38.9	2.25
26	1-1/32	33.7	36.6	38.9	42.0	2.43
28	1-1/8	39.0	42.4	45.2	48.8	2.82
30	1-3/16	44.8	48.7	51.8	55.9	3.23
31.5	-	49.5	53.7	57.2	61.8	3.57
33.5	-	56.0	60.7	64.6	69.8	4.03
35.5	-	62.9	68.2	72.6	78.4	4.53
37.5	-	70.2	76.1	81.0	87.1	5.05
40	1-19/32	79.7	86.6	92.2	99.6	5.75
42.5	-	90.1	97.7	104.0	112.3	6.49
45	-	101.0	110.0	117.0	126.0	7.28
47.5	1-7/8	113.0	122.0	130.0	140.0	8.11
50	1-31/32	125.0	135.0	144.0	156.0	8.98
53	2-3/32	140.0	152.0	162.0	175.0	10.10
56	2-7/32	156.0	170.0	181.0	195.0	11.30
60	2-3/8	179.0	195.0	207.0	224.0	12.90
63	2-1/2	198.0	215.0	229.0	247.0	14.30
67	2-5/8	224.0	243.0	259.0	279.0	16.20
71	2-13/16	251.0	273.0	291.0	314.0	18.20
75	2-31/32	281.0	304.0	324.0	325.0	20.20



بازرگانی رحیمی



6 × 19 + IWRC

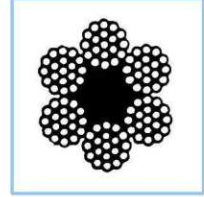
سیم بکسل IWRC + 19 × 6 با هسته فولادی

For Crane, Hoist and General Engineering Purposes

Diameter of Rope		Minimum Breaking Load in Metric Tons					Approx. Weight
mm	Approx. Inch	150kg/mm ²	165kg/mm ²	180kg/mm ²	195kg/mm ²	215kg/mm ²	kg/m
6	-	2.0	2.22	2.39	2.58	-	0.145
6.3	1/4	2.2	2.43	2.63	2.84	3.04	0.160
8	5/16	3.55	3.93	4.26	4.67	5.02	0.258
9	-	4.6	4.95	5.5	5.94	6.38	0.328
9.5	3/8	5.0	5.5	6.0	6.48	6.97	0.364
10	13/32	5.55	6.1	6.65	7.18	7.72	0.404
11	7/16	6.97	7.65	8.35	9.02	9.69	0.508
12	15/32	8.0	8.79	9.58	10.35	11.13	0.580
12.5	1/2	8.7	9.53	10.4	11.23	12.1	0.630
14	9/16	10.9	12.0	13.2	14.26	15.3	0.793
16	5/8	14.2	15.6	17.0	18.41	19.8	1.04
18	23/32	18.0	19.8	21.5	23.2	24.9	1.31
19	3/4	20.3	22.3	24.3	26.2	28.1	1.41
20	13/16	22.2	24.4	26.6	28.7	30.8	1.62
22	7/8	27.9	30.6	33.4	36.1	38.8	2.03
24	15/16	32.0	35.2	38.3	41.3	44.3	2.33
25	1	34.6	38.1	41.5	44.8	48.2	2.53
26	1-1/32	37.5	41.3	45.0	48.5	52.1	2.73
28	1-1/8	43.5	47.9	52.1	56.3	60.5	3.16
30	1-3/16	50.0	55.0	60.0	64.8	69.6	3.65
31.5	-	55.0	60.5	66.0	71.4	76.8	4.00
32	1-1/4	57.0	62.5	68.0	73.7	79.2	4.15
33.5	-	62.5	68.5	74.8	80.8	86.8	4.53
35.5	-	70.0	77.0	84.0	90.7	97.5	5.10
37.5	-	78.0	85.7	93.5	101.0	108.0	5.68
38	1-1/2	80.0	88.0	95.7	103.0	110.0	5.83
40	1-19/32	89.0	97.2	106.0	114.5	123.0	6.45
42	1-21/32	97.7	107.4	117.0	126.6	135.0	7.11
42.5	-	100.0	110.3	120.0	129.6	139.0	7.28
44	1-3/4	107.0	118.6	129.0	139.4	149.0	7.79
46	1-13/16	112.0	124.0	135.0	145.8	156.0	8.15
47.5	1-7/8	117.0	130.0	141.0	152.0	163.0	8.52
50	1-31/32	125.0	137.6	150.0	162.0	174.0	9.12
		138.7	152.5	166.2	179.5	193.0	10.10
53	2-3/32	155.9	171.3	186.8	201.7	-	11.35
56	2-7/32	174.0	191.3	208.5	225.2	-	12.67
60	2-3/8	200.0	219.0	239.0	258.0	-	14.50
63	2-1/2	222.0	242.0	263.9	284.4	-	16.03



بازرگانی رحیمی



6x19+FC

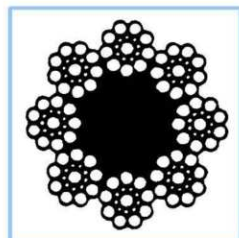
سیم بکسل 6x19+FC کنفی
نرم وقابل انعطاف باهسته کنفی

For Crane, Hoist and General Engineering Purposes

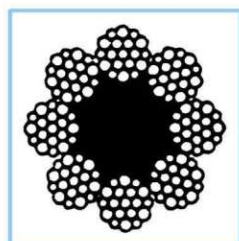
Diameter of Rope		Minimum Breaking Load in Metric Tons					Approx. Weight
mm	Approx. Inch	150kg/mm ²	165kg/mm ²	180kg/mm ²		195kg/mm ²	kg/m
				Ordinary	Lang's		
4	5/32	0.81	0.88	0.94	0.96	1.04	0.058
5	3/16	1.27	1.38	1.46	1.50	1.63	0.091
6	-	1.82	1.98	2.11	2.16	2.34	0.131
6.3	1/4	2.01	2.18	2.33	2.38	2.58	0.144
8	5/16	3.24	3.52	3.75	3.84	4.16	0.233
9	-	4.11	4.46	4.74	4.86	5.27	0.295
9.5	3/8	4.56	4.96	5.28	5.41	5.87	0.328
10	13/32	5.07	5.50	5.86	6.00	6.50	0.364
11	7/16	6.36	6.90	7.35	7.53	8.15	0.457
12	15/32	7.30	7.91	8.44	8.65	9.35	0.524
12.5	1/2	7.92	8.59	9.15	9.38	10.15	0.569
14	9/16	9.93	10.8	11.5	11.8	12.8	0.713
16	5/8	13.0	14.1	15.0	15.4	16.7	0.932
18	23/32	16.4	17.8	19.0	19.4	21.0	1.18
19	3/4	18.5	20.0	21.4	21.9	23.7	1.33
20	13/16	20.3	22.0	23.4	24.0	26.0	1.46
22	7/8	25.4	27.6	29.4	30.1	32.6	1.83
24	15/16	29.2	31.7	33.7	34.6	37.5	2.10
25	1	31.7	34.4	36.6	37.5	41.7	2.28
26	1-1/32	34.3	37.2	39.6	40.6	44.0	2.46
28	1-1/8	39.7	43.1	45.9	47.0	50.9	2.85
30	1-3/16	45.6	49.5	52.7	54.0	58.5	3.28
31.5	-	50.3	54.6	58.1	59.5	64.5	3.61
33.5	-	56.9	61.7	65.7	67.3	72.9	4.08
35.5	-	63.9	69.3	73.8	75.6	81.9	4.59
36	1-7/16	65.7	71.3	75.9	77.8	84.3	4.72
37.5	-	71.3	77.3	82.4	84.4	91.4	5.12
38	1-1/2	73.2	79.4	84.6	86.6	93.8	5.26
40	1-19/32	81.1	88.0	93.7	96.0	104.0	5.82
42	1-21/32	89.4	97.0	103.0	106.0	114.0	6.42
42.5	-	91.5	99.3	106.0	108.0	117.0	6.57
44	1-3/4	98.1	106.0	113.0	116.0	125.0	7.05
45	-	103.0	111.0	119.0	122.0	131.0	7.37
46	1-13/16	107.0	116.0	124.0	127.0	137.0	7.70
47.5	1-7/8	114.0	124.0	132.0	135.0	147.0	8.21
50	1-31/32	127.0	138.0	146.0	150.0	163.0	9.10
53	2-3/32	142.4	154.5	164.0	168.5	183.0	10.22
56	2-7/32	159.0	172.5	183.0	188.0	204.0	11.42
60	2-3/8	182.5	198.0	210.0	216.0	234.7	13.10
63	2-1/2	201.0	218.3	232.0	238.0	258.8	14.45



بازرگانی رحیمی



8 × S (19) + FC
8 × W (19) + FC



سیم بکسل ۸ × ۱۹ + FC با بافت معمولی و سیل (Seal) جهت استفاده در آسانسورها

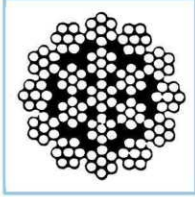
Email: ITSCO@neda.net.ir

For Elevator, Crane and Engineering Purposes

Diameter of Rope mm	Nominal Tensile Strength				Approx. Weight	
	1570N/mm ²		1770N/mm ²		kg/m	
	Minimum Breaking Load KN					
	FC	IWRC	FC	IWRC	FC	IWRC
10	46.00	54.32	51.86	61.24	0.347	0.422
11	55.66	65.73	62.75	74.10	0.419	0.511
12	66.24	78.22	74.68	88.19	0.499	0.608
13	77.74	91.8	87.65	103.5	0.586	0.713
14	90.16	106.5	101.6	120.0	0.679	0.827
16	117.8	139.1	132.8	156.8	0.887	1.080
18	149.0	176.0	168.0	198.4	1.130	1.370
20	184.0	217.3	207.4	245.0	1.390	1.690
22	222.6	262.9	251.0	295.4	1.680	2.050
24	265.0	312.9	298.7	352.8	2.000	2.430



بازرگانی رحیمی



19 x 7 Non - Rotation Rope

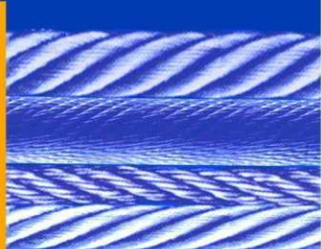
سیم بکسل ۱۹ x ۷ نتاب

باقابلیت انعطاف بالا

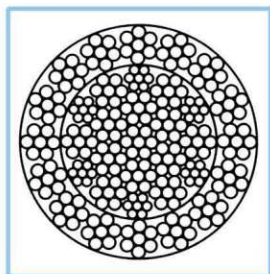
جهت استفاده در تاورکرنها و اهداف صنعتی خاص

For Crane and General Engineering Purposes

Diameter of Rope		Minimum Breaking Load in Metric Tons			Approx. Weight
mm	Approx. Inch	165kg/mm ²	180kg/mm ²	195kg/mm ²	kg/m
9	3/8	5.22	5.73	6.2	0.339
10	13/32	6.45	7.07	7.66	0.418
11	7/16	7.8	8.56	9.26	0.506
12	15/32	9.28	10.2	11.0	0.602
12.5	1/2	10.1	11.0	12.0	0.653
14	9/16	12.6	13.9	15.0	0.819
16	5/8	16.5	18.1	19.6	1.07
18	23/32	20.9	22.8	24.7	1.36
19	3/4	23.6	25.7	27.9	1.53
20	13/16	25.9	28.2	30.6	1.68
22	7/8	32.4	35.4	38.4	2.10
24	15/16	37.2	40.6	44.0	2.41
25	1	40.4	44.1	47.8	2.62
26	1-1/32	43.7	47.7	51.7	2.83
28	1-1/8	50.7	55.3	59.9	3.28
30	1-3/16	58.2	63.5	68.8	3.77
31.5	-	64.1	70.0	75.8	4.16
32	1-1/4	66.2	72.2	78.2	4.29
33.5	-	72.5	79.1	85.7	4.70
34	1-11/32	74.7	81.5	88.3	4.84
35.5	-	81.4	88.9	96.3	5.28
36	1-7/16	83.8	91.4	99.0	5.43
37.5	-	90.9	99.2	107.0	5.89
38	1-1/2	93.3	102.0	110.0	6.05
40	1-19/32	103.0	113.0	122.0	6.70
42	1-21/32	114.0	124.0	134.0	7.39
42.5	-	117.0	127.0	138.0	7.57
44	1-3/4	125.0	137.0	148.0	8.11
45	-	131.0	143.0	155.0	8.48
46	1-13/16	137.0	149.0	161.0	8.87
47.5	1-7/8	146.0	159.0	172.0	9.45
48	-	149.0	162.0	175.0	9.65
50	1-31/32	162.0	176.0	191.0	10.50
52	2-1/16	175.0	191.0	207.0	11.30
53	2-3/32	182.0	198.0	214.0	11.80
54	2-1/8	188.0	206.0	223.0	12.20
56	2-7/32	203.0	221.0	239.0	13.10
58	2-5/16	217.0	237.0	258.0	14.10
60	2-3/8	233.0	254.0	276.0	15.10



بازرگانی رحیمی



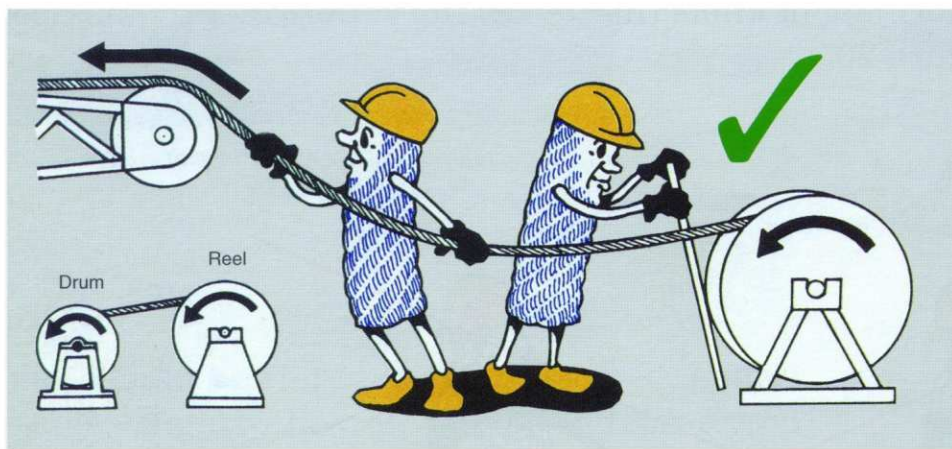
- سیم بکسل ۷ × ۳۵ نتاب (پوست ماری)
- جهت استفاده در تاورکرنها و جرثقیل های Mobile
- نرم و قابل انعطاف

Email: ITSCO@neda.net.ir

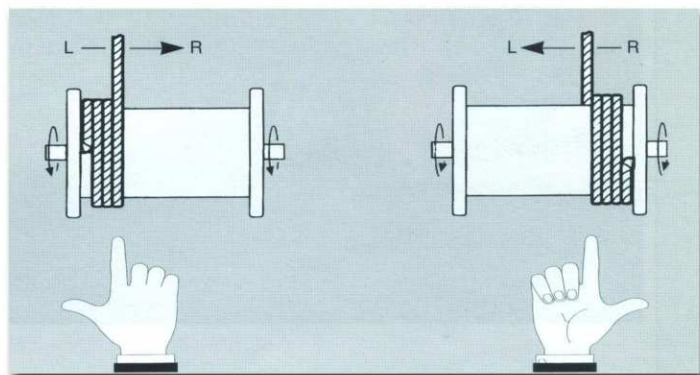
Rope Dia mm	Approx Weight kg/100m	Tensile strength MPa				
		1570	1670	1770	1870	1960
Minimum Breaking load KN						
14	88.60	110.7	117.7	124.8	131.8	138.2
16	116.20	144.6	153.8	163.0	172.2	180.5
18	146.00	183.0	194.6	206.3	217.9	228.4
20	180.81	225.9	240.3	254.7	269.1	282.0
22	220.50	273.3	290.7	308.1	325.6	341.2
24	261.07	325.3	346.0	366.7	387.4	406.1
26	306.05	381.8	406.1	430.4	454.7	476.6
28	354.06	442.7	470.9	499.1	527.3	552.7
30	409.93	508.3	540.6	573.0	605.4	634.5
32	464.23	578.3	615.1	651.9	688.8	721.9
34	521.46	652.8	694.4	736.0	777.6	815.0
36	583.40	731.9	778.5	825.1	871.7	913.7
38	654.93	815.5	867.4	919.4	971.3	1018.0
40	721.57	903.6	961.1	1018.7	1076.2	1128.0

بازرگانی رحیمی

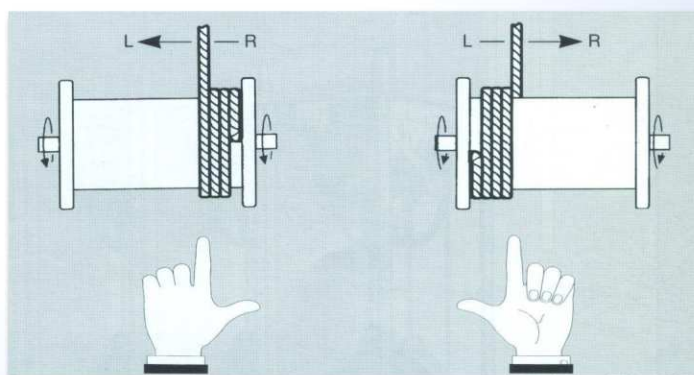
■ طرز درست بستن سیم بکسل از روی قرقره به روی درام



■ جهت بستن سیم بکسل راست گرد روی درام یا قرقره



■ جهت بستن سیم بکسل چپ گرد روی درام یا قرقره



■ سیم تروس جهت کیلومتر و دورسنج موتور

