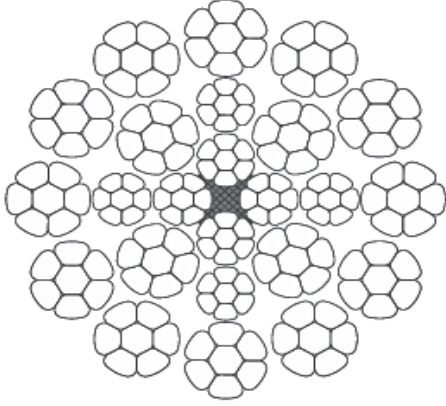


Piling Crane Ropes Specifications

KEY: RR = rotation resistance; C = compacted

Hoist Ropes

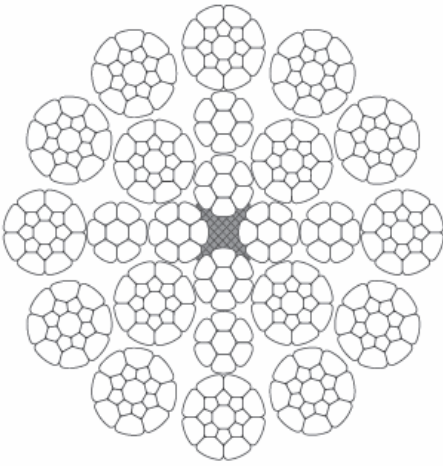
24x7 RR + C



Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				1960 MPa
8	5/16	34.4	0.31	56
9	-	43.6	0.39	71
10	-	53.8	0.48	88
11	7/16	65.1	0.58	107.4
12	-	77.5	0.69	127
12.5	-	84.1	0.75	138
13	1/2	91.0	0.81	147
14	9/16	106.0	0.94	175
15	-	121.1	1.07	197
16	5/8	137.8	1.22	224
18	-	174.4	1.54	283
19	3/4	194.3	1.72	315
20	-	215.3	1.91	350
21	-	237.3	2.10	385
22	7/8	260.5	2.31	423
			f - Fill Factor	k - Spinning Loss Factor
			0.685	0.832

⚠ Never use with swivel

24x17 RR + C



Diameter		Section	Mass	Minimum breaking load	
mm	inch				mm ²
					1960 MPa
24	-	314.1	2.87	507	
25.4	1	351.9	3.21	568	
28	1-1/8	427.6	3.90	690	
30	-	490.8	4.48	792	
32	1-1/4	558.5	5.09	901	
34	1-3/8	630.5	5.75	1017	
36	-	697.5	6.23	1105	
38	1-1/2	777.1	6.94	1231	
40	-	850.9	7.63	1364	
42	-	949.3	8.48	1503	
44	-	1041.9	9.30	1650	

f - Fill Factor

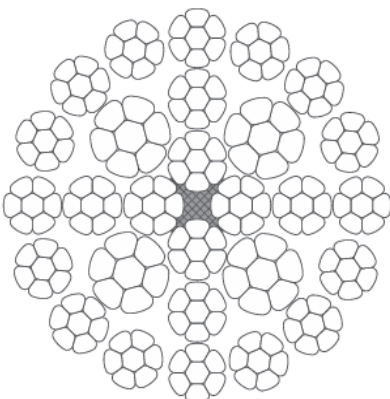
k - Spinning Loss Factor

0.689

0.817

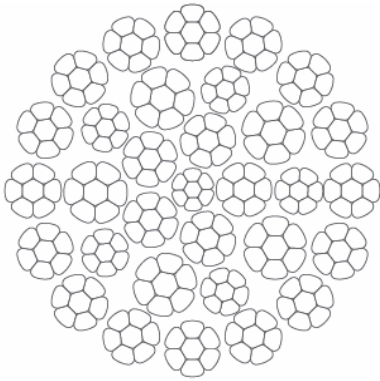
⚠ Never use with swivel

28x7 RR + C



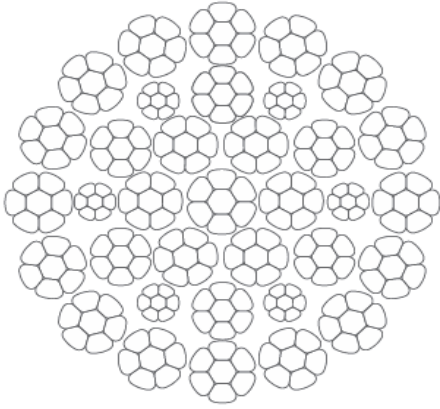
Diameter		Section	Mass	Minimum breaking load		
mm	inch			mm ²	kg/m	kN
				1960 MPa	2160 MPa	
10	-	55.3	0.49	89.1	99	
11	7/16	66.9	0.59	107.8	119.8	
12	-	79.6	0.71	128.3	142.6	
13	1/2	93.4	0.83	150	167.3	
14	9/16	108.3	0.96	174.6	194.0	
15	-	124.3	1.10	200	222.8	
16	5/8	141.4	1.25	228.1	253.4	
17	-	159.7	1.42	260	286.1	
			f - Fill Factor	k - Spinning Loss Factor		
			0.700	0.823	0.830	

32x7 RR + C



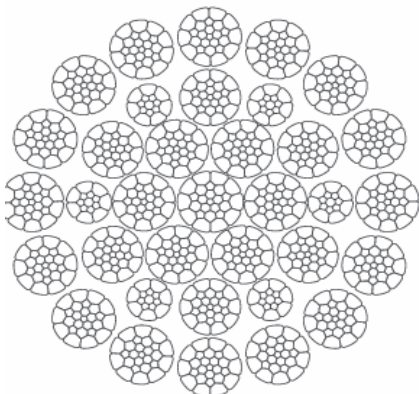
Diameter		Section	Mass	Minimum breaking load		
mm	inch			mm ²	kg/m	kN
				1960 MPa	2160 MPa	
18	-	177.2	1.59	286	317.6	
19	3/4	197.4	1.77	319	356	
20	-	218.8	1.96	353	392.2	
21	-	241.2	2.16	389	432.4	
22	7/8	264.7	2.38	427	474.5	
23	-	289.3	2.60	467	518.6	
24	-	315.0	2.83	508	564.7	
25	1	341.8	3.07	551	612.7	
26	-	369.7	3.32	596	662.7	
			f - Fill Factor	k - Spinning Loss Factor		
			0.700	0.823	0.830	

35x7 RR + C



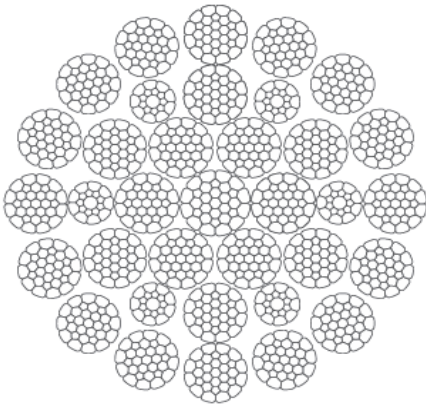
Diameter		Section	Mass	Minimum breaking load		
mm	inch			mm ²	kg/m	kN
				1960 MPa	2160 MPa	
28	1-1/8	433.1	3.87	698	760.8	
29	-	464.6	4.15	749	816	
30	-	497.2	4.44	801	873	
32	-	565.7	5.05	912	994	
34	1-3/8	638.6	5.71	1029	1122	
36	-	715.9	6.40	1154	1258	
38	1-1/2	797.7	7.13	1285	1401	
40	-	883.8	7.90	1424	1553	
42	1-5/8	974.4	8.71	1570	1712	
44	-	1069.4	9.56	1723	1879	
46	-	1168.9	10.45	1884	2053	
48	1-7/8	1272.7	11.37	2051	2236	
			f - Fill Factor	k - Spinning Loss Factor		
			0.700	0.823	0.813	

35x26 RR + C



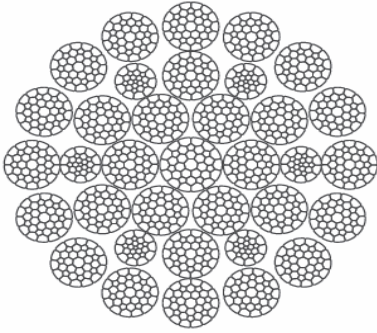
Diameter		Section	Mass	Minimum breaking load	
mm	inch	mm ²	kg/m	kN	
			2160 MPa		
68	-	2602.7	23.42	4352	
70	-	2758.0	24.82	4611	
72	-	2917.9	26.26	4879	
			f - Fill Factor	k - Spinning Loss Factor	
			0.717	0.774	

35x31 RR + C



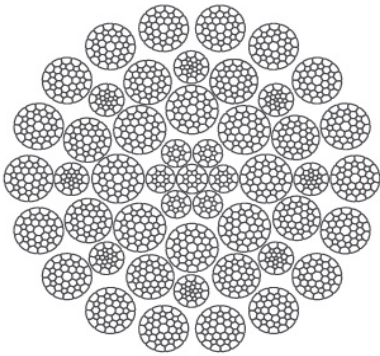
Diameter		Section	Mass	Minimum breaking load	
mm	inch	mm ²	kg/m	kN	kN
			1960 MPa 2060 MPa		
74	-	3040.2	27.37	-	5046
76	3	3206.8	28.87	-	5322
78	-	3377.8	30.41	-	5606
80	-	3553.2	31.99	-	5897
82	-	3718.5	33.47	-	6172
84	-	3825.2	34.20	-	6410
86	-	4009.5	35.85	-	6719
89	3-1/2	4294.1	38.40	-	7196
			f - Fill Factor	k - Spinning Loss Factor	
			0.724	0.850	0.742

35x36 RR + C



Diameter		Section mm ²	Mass kg/m	Minimum breaking load kN
mm	inch			
2060 MPa				
93	-	4706.6	42.01	8043
97	-	5120.2	45.70	8750
100	-	5441.8	48.57	9299
102	-	5661.7	50.54	9675
109	-	6331.4	56.81	10800
f - Fill Factor				k - Spinning Loss Factor
0.690				0.870

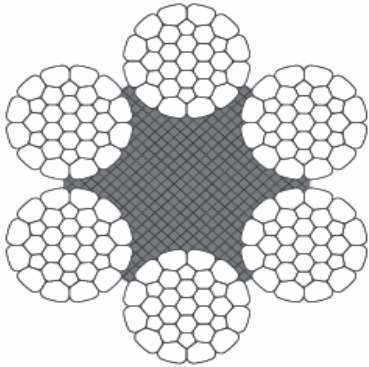
49x36 RR + C



Diameter		Section mm ²	Mass kg/m	Minimum breaking load kN
mm	inch			
2060 MPa				
113	4-1/2	6804.7	61.05	11607
118	-	7420.2	66.57	12657
121	-	7802.3	70.00	13309
125	-	8326.6	74.71	14204
f - Fill Factor				k - Spinning Loss Factor
0.680				0.870

Piling Crane Ropes for Pipe Handling

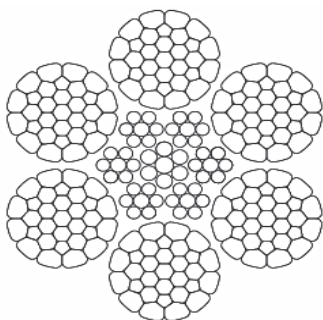
6x31 Fibre Core



Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				2160 MPa
10	-	46.3	0.41	87.5
11	7/16	56.1	0.50	106
12	-	66.7	0.60	127
13	1/2	78.3	0.70	149.5
14	9/16	90.8	0.82	174
16	5/8	118.6	1.03	219
18	-	150.1	1.34	287
19	-	167.3	1.48	316
20	-	185.4	1.62	346
22	7/8	224.3	1.99	425
24	-	266.9	2.38	503
25	-	289.6	2.60	547
26	1	313.2	2.78	586
28	1-1/8	363.3	3.26	680
			f - Fill Factor	k - Spinning Loss Factor
			0.590	0.875

⚠ Never use with swivel

6x31 Wire Core



Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				2160 MPa
10	-	51.6	0.47	91
11	7/16	62.5	0.56	110.8
12	-	74.4	0.67	130.8
13	1/2	87.3	0.79	154
14	9/16	101.2	0.91	179
15	-	116.2	1.05	205
16	5/8	132.2	1.19	233
17	-	145.7	1.27	255
18	-	163.3	1.43	296.2
19	-	166.9	1.44	329
20	-	168.2	1.45	375
22	7/8	203.5	1.74	454
24	-	305.8	2.67	533
25	-	331.8	2.90	579
26	1	358.9	3.13	626
28	1-1/8	416.2	3.63	726

f - Fill Factor

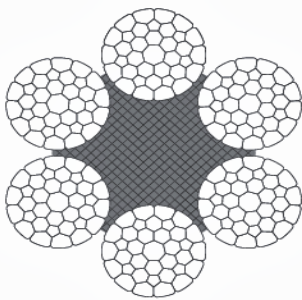
k - Spinning Loss Factor

0.661

0.816

⚠ Never use with swivel

6x36 Fibre Core



Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				2160 MPa
32	1-1/4	474.5	4.22	883
34	1-3/8	535.7	4.87	1015
36	-	600.5	5.44	1130
38	1-1/2	669.1	6.02	1245
40	-	741.4	6.71	1388
42	1-5/8	817.4	7.26	1502

f - Fill Factor

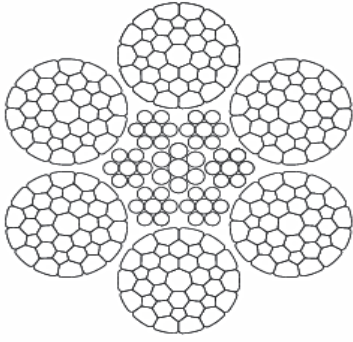
k - Spinning Loss Factor

0.590

0.865

⚠ Never use with swivel

6x36 Wire Core

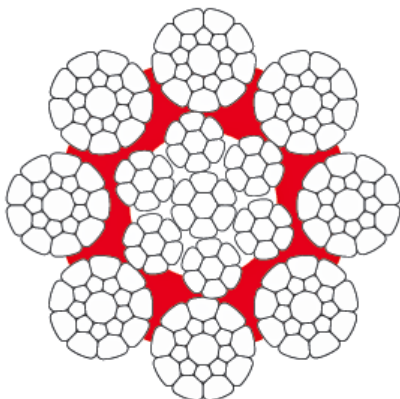


Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				2160 MPa
30	-	472.0	4.12	820
32	1-1/4	537.0	4.69	936
34	1-3/8	599.4	5.23	1037
36	-	671.9	5.86	1163
38	1-1/2	753.9	6.57	1302
40	-	841.1	7.34	1450
42	1-5/8	927.3	8.09	1598
44	1-3/4	1017.7	8.88	1754
46	-	1112.1	9.71	1804
48	1-7/8	1210.9	10.58	1964
50	2	1313.9	11.48	2131
52	-	1412.1	12.33	2266
54	-	1522.8	13.29	2443
56	-	1631.2	14.23	2617
58	-	1742.8	15.20	2796
60	-	1861.6	16.24	2994
62	-	1984.0	17.31	3198
			f - Fill Factor	k - Spinning Loss Factor
			0.665	0.800

⚠ Never use with swivel

Plastic Impregnated Ropes (PIR)

8x19 PIR

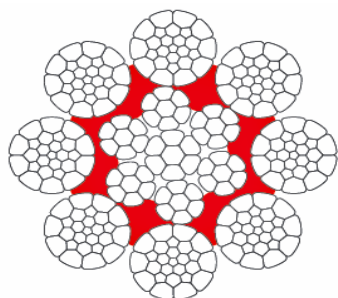


Diameter		Section	Mass	Minimum breaking load		
mm	inch			mm ²	kg/m	kN
					1960 MPa	2160 MPa
6.5	-	23.5	0.20	-	41.8	
7	-	27.3	0.24	-	48.5	
7.2	-	28.9	0.26	-	51.6	
8	5/16	35.8	0.32	-	65.6	
9	-	45.6	0.41	-	83.5	
10	-	56.9	0.51	-	104	
11	7/16	69.9	0.63	-	128	
12	-	82.0	0.73	-	150.5	
13	1/2	95.8	0.86	-	175.5	
14	9/16	110.4	0.99	-	202	
15	-	127.5	1.14	-	233.4	

f - Fill Factor	k - Spinning Loss Factor
0.720	- 0.845

⚠ Never use with swivel

8x26 PIR

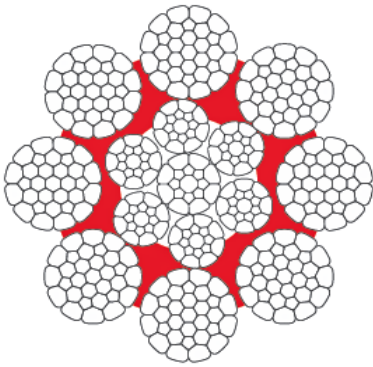


Diameter		Section	Mass	Minimum breaking load		
mm	inch			mm ²	kg/m	kN
					1960 MPa	2160 MPa
16	5/8	140.1	1.26	231	245	
18	-	177.3	1.59	292	310	
19	3/4	197.5	1.77	326	345	
20	-	218.9	1.96	361	382	
22	7/8	264.8	2.37	437	463	
23	-	291.2	2.60	481	503	
24	-	317.1	2.83	523	548	
25.4	1	355.2	3.17	586	614	
26	-	372.1	3.32	614	643	
27	-	401.3	3.58	655	685	
28	1-1/8	420.8	3.72	705	737	
29	-	451.4	3.99	756	790	
30	-	483.1	4.27	809	846	
32	1-1/4	549.6	4.86	920	962	

f - Fill Factor	k - Spinning Loss Factor
0.695	0.845 0.810

⚠ Never use with swivel

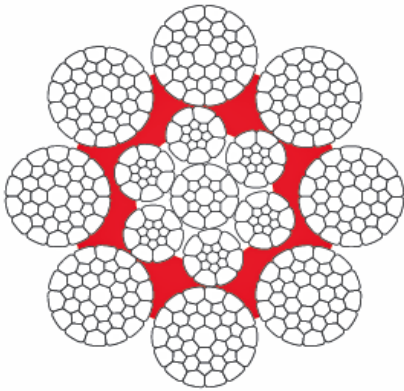
8x31 PIR



Diameter		Section	Mass	Minimum breaking load		
mm	inch			mm ²	kg/m	kN
				1960 MPa	2160 MPa	
34	1-3/8	619.4	5.56	1030	1051	
35	-	669.3	6.09	1091	1114	
36	-	708.1	6.44	1161	1186	
38	1-1/2	789.0	7.18	1294	1321	
40	-	874.2	7.96	1434	1464	
41.3	-	932.0	8.48	1529	1561	
42	1-5/8	960.2	8.74	1578	1611	
44	1-3/4	1053.8	9.60	1728	1765	
44.5	-	1077.9	9.82	1768	1805	
46	-	1151.8	10.49	1889	1929	
48	1-7/8	1254.1	11.42	2057	2100	
50	2	1342.3	12.15	2223	2269	
51	-	1396.5	12.64	2303	2351	
52	-	1451.8	13.14	2394	2444	
54	2-1/8	1565.6	14.17	2582	-	
56	-	1683.7	15.24	2776	-	
58	2-1/4	1806.2	16.35	2978	-	
				f - Fill Factor	k - Spinning Loss Factor	
				0.695	0.839	0.777

⚠ Never use with swivel

8x36 PIR



Diameter		Section	Mass	Minimum breaking load
mm	inch	mm ²	kg/m	kN
				1960 MPa
60	2-3/8	1946.1	17.72	3192
62	-	2078.0	18.92	3408
64	-	2214.3	20.16	3632
65	-	2284.0	20.80	3746
			f - Fill Factor	k - Spinning Loss Factor
			0.695	0.837

⚠ Never use with swivel

