

## 6 x 36 Class



### Benefits:

- High quality six strand flexible crane rope
- Consistent bending fatigue performance
- Fully lubricated
- Steel Core

### High Performance Crane Ropes

High quality performance wire ropes for the lifting industry.

Our world leading manufacturing capabilities are accompanied by a high level of quality assurance and in-house expertise in research and development and design engineering.

### Applications

Telescopic mobile cranes

Mobile lattice boom cranes

Ship cranes

Ship to shore container cranes

Bulk unloader cranes

Overhead hoists/gantry cranes

Steel works ladle cranes

Container handling cranes



## 6 x 36 Class

Diameter		Nominal length mass		Minimum Breaking Force									Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
				IP/1770			EIP/1960			EEIP/2160				Ordinary	Lang's	
mm	inch	kg/m	lb/ft	kN	Tons (short)	Tons (metric)	kN	Tons (short)	Tons (metric)	kN	Tons (short)	Tons (metric)	MN	Nm	Nm	mm <sup>2</sup>
6.00		0.144	0.097	22.7	2.55	2.31	25.1	2.82	2.56				1.67	2.05	2.72	16
	1/4	0.161	0.108	26.2	2.94	2.67	30.2	3.40	3.08				1.86	2.43	3.22	18
7.00		0.196	0.132	30.9	3.47	3.15	34.2	3.84	3.49				2.27	3.26	4.31	22.0
	5/16	0.252	0.169	40.7	4.58	4.15	46.9	5.27	4.78				2.91	4.76	6.28	28.3
8.00		0.256	0.172	40.3	4.53	4.11	44.7	5.02	4.56				2.96	4.88	6.43	28.7
9.00		0.324	0.218	51.0	5.73	5.20	56.5	6.35	5.76				3.75	6.96	9.16	36.4
	3/8	0.363	0.244	58.4	6.56	5.95	67.2	7.55	6.85				4.20	8.25	10.9	40.7
10.0		0.400	0.269	63.0	7.08	6.42	69.8	7.85	7.12				4.63	9.6	12.6	44.9
11.0		0.494	0.332	79.1	8.89	8.07	90.7	10.20	9.25				5.71	13.1	17.2	55.4
	7/16	0.494	0.332	79.1	8.89	8.06	90.7	10.2	9.25	100	11.2	10.2	5.71	13.1	17.2	55.4
12.0		0.576	0.387	90.7	10.2	9.25	100	11.2	10.2	111	12.5	11.3	6.66	16.6	21.7	64.7
	1/2	0.645	0.434	102	11.5	10.4	118	13.3	12.1	130	14.6	13.2	7.46	19.7	25.7	72.4
13.0		0.676	0.454	106	11.9	10.8	118	13.3	12.0	130	14.6	13.3	7.82	21.1	27.6	75.9
14.0		0.784	0.527	124	13.9	12.6	137	15.4	14.0	151	17.0	15.4	9.07	26.4	34.5	88.0
	9/16	0.817	0.549	129	14.5	13.2	149	16.8	15.2	165	18.5	16.8	9.44	28.0	36.6	91.7
	5/8	1.02	0.688	161	18.1	16.4	183	20.6	18.7	202	22.7	20.6	11.8	39.5	51.4	115
16.0		1.02	0.688	161	18.1	16.4	183	20.6	18.7	202	22.7	20.6	11.8	39.5	51.4	115
18.0		1.30	0.871	204	22.9	20.8	226	25.4	23.0	249	28.0	25.4	15.0	56.3	73.2	145
19.0		1.45	0.975	228	25.6	23.2	262	29.4	26.7	288	32.4	29.4	16.8	66.8	86.8	163
	3/4	1.45	0.975	228	25.6	23.2	262	29.4	26.7	288	32.4	29.4	16.8	66.8	86.8	163
20.0		1.60	1.08	252	28.3	25.7	279	31.4	28.4	308	34.6	31.4	18.5	77.4	100	180
22.0		1.98	1.33	308	34.6	31.4	354	39.8	36.1	390	43.8	39.8	22.8	106	138	222
	7/8	1.98	1.33	308	34.6	31.4	354	39.8	36.1	390	43.8	39.7	22.8	106	138	222
24.0		2.30	1.55	363	40.8	37.0	402	45.2	41.0	443	49.8	45.2	26.6	134	173	259
	1	2.58	1.73	399	44.9	40.7	460	51.7	46.9	506	56.9	51.6	29.8	159	206	290
26.0		2.70	1.82	426	47.9	43.4	472	53.1	48.1	520	58.5	53.0	31.3	171	221	304
28.0		3.14	2.11	494	55.5	50.4	547	61.5	55.8	603	67.8	61.5	36.3	213	275	352
	1 1/8	3.27	2.19	503	56.5	51.3	578	65.0	59.0	636	71.5	64.9	37.8	227	293	367
	1 1/4	4.10	2.75	645	72.5	65.8	715	80.4	72.9	787	88.5	80.3	47.4	319	411	460
32.0		4.10	2.75	645	72.5	65.8	715	80.4	72.9	787	88.5	80.3	47.4	319	411	460
	1 3/8	4.88	3.28	743	83.5	75.7	854	96.0	87.1	943	106	96.2	56.4	416	534	548
36.0		5.18	3.48	817	91.8	83.3	904	102	92.2	997	112	102	59.9	456	585	582
38.0		5.81	3.90	910	102	92.8	1010	114	103	1110	125	113	67.1	541	694	652
	1 1/2	5.81	3.90	910	102	92.8	1010	114	103	1110	125	113	67.1	541	694	652
40.0		6.40	4.30	1010	114	103	1120	126	114	1230	138	125	74.0	626	803	718
	1 5/8	6.81	4.58	1020	115	104	1170	132	119	1300	146	133	78.8	688	882	765
44.0		7.90	5.31	1220	137	124	1360	153	139	1500	169	153	91.4	861	1100	887
	1 3/4	7.90	5.31	1220	137	124	1360	153	139	1500	169	153	91.4	861	1100	887
	1 7/8	9.22	6.19	1450	163	148	1610	181	164	1770	199	180	107	1080	1390	1030
48.0		9.22	6.19	1450	163	148	1610	181	164	1770	199	180	107	1080	1390	1030
	2	10.3	6.94	1530	172	156	1760	198	179	1930	217	197	119	1290	1640	1160
52.0		10.8	7.27	1700	191	173	1890	212	193	2080	234	212	125	1380	1760	1210
	2 1/8	11.7	7.83	1710	192	174	1970	221	201	2160	243	220	135	1550	1970	1310
56.0		12.5	8.43	1980	223	202	2190	246	223	2410	271	246	145	1730	2200	1410
	2 1/4	13.1	8.78	1910	215	195	2200	247	224	2420	272	247	151	1840	2340	1470
60.0		14.6	9.81	2270	255	231	2510	282	256	2770	311	282	168	2160	2750	1630
	2 3/8	14.6	9.78	2270	255	231	2510	282	256	2770	311	282	168	2160	2750	1630

This table is for guidance purposes only with no guarantee or warranty (express or implied) as to its accuracy. The products described may be subject to change without notice, and should not be relied on without further advice from Bridon. For general notes please refer to page 10 of the General Guidance brochure.