

Date: Thu, 30 Sep 2010 14:38:28 +0530

To: cbs@revacranes.com

CC: rohit@revacranes.com, Debasis Dutta <debasis_dutta@ushamartin.co.in>

Dear Sir,

We thankfully acknowledge the receipt of your tailed mail. Please note that, for crane application 6x37 construction is not the preferred one as the said rope is being manufactured in double operation which can not arrest the looseness in the rope.

We recommend 6x36 construction mainly for crane application which will give you optimum flexibility without hampering the other operating conditions. Also please note that as the no. of wires in 6x37 rope is more, so, there is a chance of inter necking between the wires which may lead to the wire breakages and ultimately to the rope failure.

So, requesting you to once again confirm the rope construction for maximum utilisation of your resources.

Thanks and Regards,

Kunal Chakraborty.

Subject: regarding usha martin rope 6x36 steel core

From: "cbsharma" <cbs@revacranes.com>

Date: Thu, 30 Sep 2010 13:41:31 +0530

To: <kunal_chakraborty@ushamartin.co.in>

CC: "rohit" <rohit@revacranes.com>

Dear Mr kunal chakraborty ,:

we are in urgent require ment for the following wire rope .pl ease let us know regarding 6x37 wire rope. Is it ready or not from any where .We have not been getting from any where .from one year. please advise us and let us know the lead time

1.wire rope 11mmx 6 x37 steel core= 1000meter

2.wirerope 9mm 6x37 steel core =500meter

REGARDS& THANKS

C.B.SHARMA

(MANAR PURCHASE)

REVA INDUSTRES LIMITED

PLOT NO-28 SEC-25

0129-4185418

Faridabad-121004

Haryana



USHA MARTIN INDUSTRIES

(A DIVISION OF USHA BELTRON LIMITED)

1206, MEY DELHI HOUSE, 27 BARAKHAMBA ROAD, NEW DELHI 110 001

PHONE : 331 5158 / 5157 / 5158, FAX : 011 332 0723

HEAD OFFICE : MANGAL KALASH, 2-A, SHAKESPEARE SARANI, CALCUTTA, 700 071

PHONE : 242 5484 / 3985 / 5713 / 8541 FAX : 091 33 242 1971 / 242 5306

WORKS : TATISILWAI 835 103 RANCHI-1, BIHAR, INDIA, PHONE : 525 241 / 525 242 / 525 243

525 227, 525 899, FAX : 0651 525 223

REGD. OFFICE : TATISILWAI 835 103, RANCHI, BIHAR, INDIA

ADVANTAGES OF 6/36 (14/7 & 7/7/1) CONSTRUCTION ROPE OVER 6/37 (18/12/6/1) CONSTRUCTION ROPE

a) For the same dia of rope, the surface area of 6/36 rope is more and thus provides more abrasion resistance properties.

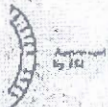
b) For the same dia and tensile grade, a rope of 6/36 construction has more breaking load.

c) On the consideration of breaking strength for 20 mm dia and above, a 6/36 rope having the same tensile designation can replace a 6/37 rope of the next higher size.

Example - The breaking strength of 20 mm dia 6/36 construction S.F. 1770 N/mm² tensile rope is having min. breaking load of 234 KN. To have the same breaking strength of 6/37 construction one has to go for 22 mm dia 1770 N/mm² tensile grade rope.

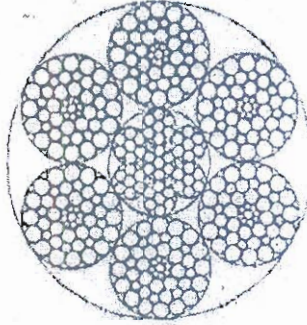
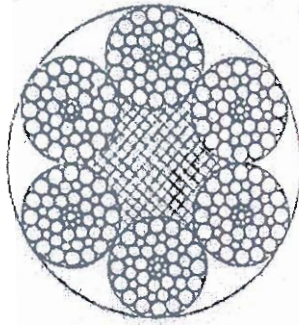
d) For the same dia of rope the fatigue resistance of 6/36 construction is more than that of a 6/37 construction. This will provide more fatigue life.

e) The load distribution amongst wires in different layers is uniform in case of 6/36 construction rope and thus the possibility of wire breakages due to secondary bending and internicking is much less than in 6/37 construction rope.

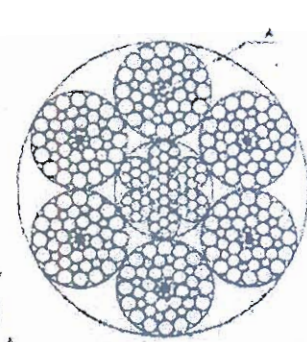
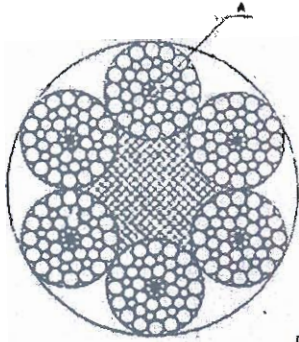


TCSA

Table 6 -- Continued



6 x 49 (16/8 & 8/8/1) (FC) 48 to 92 mm 6 x 49 (16/8 & 8/8/1) (IWRC)



DETAIL A

6 x 55 (16/8 & 8/8/6/1) (FC) 48 to 92 mm 6 x 55 (16/8 & 8/8/6/1) (IWRC)

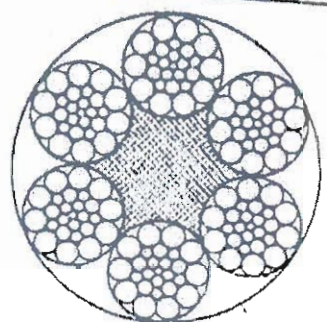
Nominal Diameter (1) mm	Approximate Mass		Minimum Breaking Load Corresponding to Tensile Designation of Wires of					
			1570		1770		1960	
	Fibre Core (2) kg/100 m	Steel Core (3) kg/100 m	Fibre Core (4) kN	Steel Core (5) kN	Fibre Core (6) kN	Steel Core (7) kN	Fibre Core (8) kN	Steel Core (9) kN
9	30.8	33.9	42	45	47	51	52	57
10	38.0	41.8	52	56	58	63	65	70
11	46.0	50.8	63	68	71	76	78	85
12	54.7	60.2	75	81	84	92	93	100
13	64.3	70.7	88	97	99	106	109	118
14	74.5	82.0	102	112	114	124	127	137
16	97.3	107	133	143	147	161	166	178
18	123	135	168	181	189	204	210	226
19	137	151	187	202	211	228	233	252
20	152	167	207	224	234	252	259	279
22	184	202	251	271	283	305	313	338
24	219	241	298	322	336	363	372	401
26	257	283	350	378	395	426	437	472
28	298	328	406	439	458	494	507	547
32	389	428	530	573	598	646	662	715
36	493	542	671	725	757	817	840	905
40	608	669	829	895	934	1009	1035	1117
44	736	810	1003	1083	1131	1221	1252	1352
48	876	964	1193	1289	1345	1453	1490	1609
52	1028	1131	1401	1513	1579	1705	1748	1888
56	1192	1311	1624	1754	1831	1978	2028	2190
60	1369	1506	1865	2014	2102	2270	2328	2514
64	1557	1713	2122	2291	2392	2583	2648	2860
68	1758	1934	2395	2587	2700	2916	2990	3220
72	1971	2168	2685	2900	3027	3269	3352	3620
76	2196	2416	2992	3231	3373	3643	3755	4034
80	2433	2676	3315	3580	3737	4036	4155	4469
84	2683	2951	3655	3947	4120	4450	4562	4928
88	2944	3239	4011	4332	4522	4884	5007	5408
92	3218	3540	4384	4735	4942	5338	5473	5910

NOTE — To obtain calculated aggregate breaking loads, multiply the figures given in col 4, 6 and 8 by 1.191 and those given in col 5, 7 and 9 by 1.285.

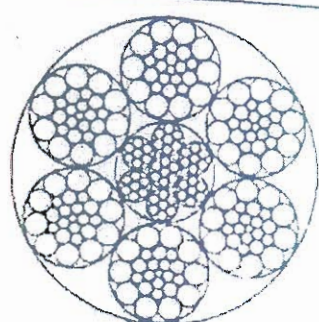
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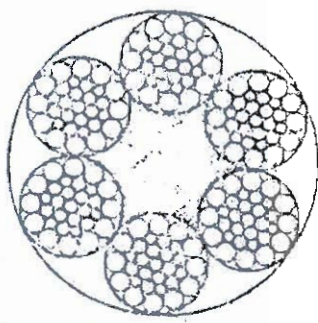
Table 6 Breaking Load and Mass for 6 x 26 (10/5 & 5/5/1), 6 x 31 (12/6 & 6/6/1),
6 x 36 (14/7 & 7/7/1), 6 x 41 (16/8 & 8/8/1), 6 x 49 (16/8 & 8/8/1) and
6 x 55 (16/8 & 8/8/6/1) Constructions
(Clauses 1.1, 4.1 and 5.1 and Table 3)



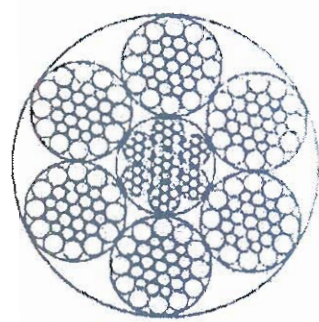
6 x 26 (10/5 & 5/5/1) (FC) 9 to 40mm



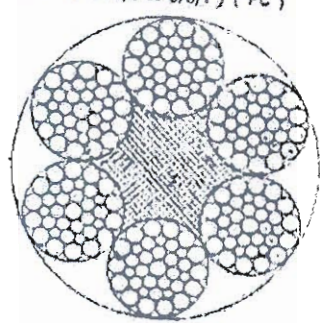
6 x 26 (10/5 & 5/5/1) (WRC)



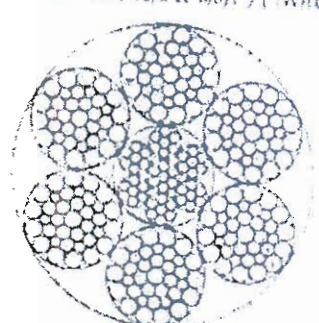
6 x 31 (12/6 & 6/6/1) (FC) 11 to 40 mm



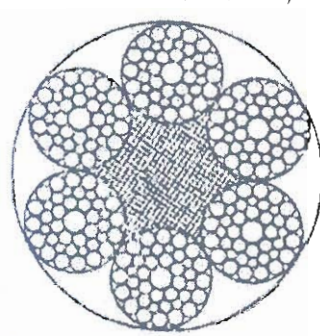
6 x 31 (12/6 & 6/6/1) (WRC)



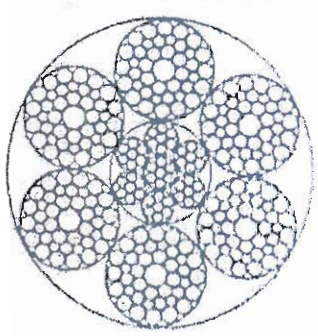
6 x 36 (14/7 & 7/7/1) (FC) 13 to 56 mm



6 x 36 (14/7 & 7/7/1) (WRC)

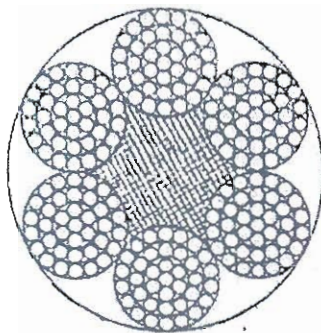


6 x 41 (16/8 & 8/8/1) (FC) 16 to 60 mm

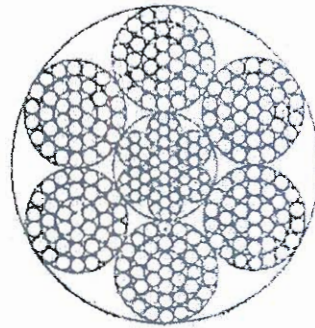


6 x 41 (16/8 & 8/8/1) (WRC)

Table 3 Breaking Load and Mass for 6×37 (18/12/6/1) Construction
(Clauses 1.1, 4.1 and 5.1)



8 to 56 mm
With Fibre Core (FC)



8 to 40 mm
With Steel Core (IWRC)

Nominal Diameter (1) mm	Approximate Mass		Minimum Breaking Load Corresponding to Tensile Designation of Wires of					
	Fibre Core (2) kg/100 m	Steel Core (3) kg/100 m	1 570		1 770		1 960	
			Fibre Core (4) kN	Steel Core (5) kN	Fibre Core (6) kN	Steel Core (7) kN	Fibre Core (8) kN	Steel Core (9) kN
8	22.1	24.4	30	32	33	36	37	40
9	28.0	30.8	37	40	42	46	47	51
10	34.6	38.1	46	50	52	56	58	62
11	41.9	46.1	56	60	63	68	70	76
12	49.8	54.8	67	72	75	81	83	90
13	58.5	64.3	78	84	88	95	98	103
14	67.8	74.6	91	98	102	110	113	122
16	88.6	97.4	118	128	134	144	148	158
18	112	123	150	162	169	183	187	202
19	125	137	167	180	188	203	209	225
20	138	152	183	200	208	225	231	250
22	167	184	224	242	253	273	280	302
24	199	219	267	288	301	325	335	361
26	234	257	313	338	353	381	393	421
28	271	297	363	392	409	442	457	490
32	354	389	474	512	534	577	595	630
36	448	492	600	648	676	730	748	800
38	499	549	668	722	753	813	834	891
40	554	608	741	800	835	902	924	995
44	678	—	896	—	1 010	—	1 119	—
48	797	—	1 066	—	1 202	—	1 331	—
52	936	—	1 252	—	1 417	—	1 567	—
56	1 083	—	1 451	—	1 656	—	1 812	—

NOTES

1. To obtain equivalent aggregate breaking loads, multiply the figures given in col 4, 6 and 8 by 1.213 and those given in col 5, 7 and 9 by 1.316.
2. The nominal diameter 28 to 36 are non-preferred; rope above 26 mm diameter can be advantageously used in equal lay construction (see Table 5).