

WEIGHT & BREAKING LOAD OF STEEL WIRE ROPE

As per Indian Standard Specification is 2266

DIA(MM)	MASS KG/100 MTR		MIN. BREAKING		MIN. BREAKING		MASS KG/100 MTR		MIN. BREAKING	
	6X19 & 6X37		LOAD-KN 6X19		LOAD-KN 6X37		6X36		LOAD-KN 6X36	
	FMC	IWRC	FMC	IWRC	FMC	IWRC	FMC	IWRC	FMC	IWRC
6	12.5	13.7	20	21	21	23				51
8	22.1	24.4	35	37.8	33	36				63
9	28	30.8	44	47.5	42	46	30.8	33.9	47	76
10	34.6	38.1	54	58.3	52	56	38	41.8	58	92
11	41.9	46.1	66	71.3	63	68	46	50.6	71	106
12	49.8	54.8	78	84.2	75	81	54.7	60.2	84	124
13	58.5	64.4	92	99.4	88	95	64.3	70.7	99	142
14	67.8	74.6	107	116	102	110	74.5	82	114	161
15	77.8	85.6	122	132	117	127	85.5	94	131	204
16	88.6	97.4	139	150	134	144	97.3	107	149	228
18	112	123	176	190	169	183	123	135	189	252
19	125	137	196	212	188	203	137	151	211	305
20	138	152	218	235	209	225	152	167	234	363
22	167	184	263	284	253	273	184	202	283	394
24	199	219	313	338	301	325	219	241	336	426
25	216	238	340	367	326	352	238	261	365	494
26	234	257	368	397	353	381	257	283	395	567
28	271	298	426	461	409	442	298	328	458	646
30	312	343	490	529	470	507	342	376	526	729
32	354	390	557	602	534	577	389	428	598	772
34	400	440	629	679	603	651	440	484	675	817
35	424	466	666	719	639	690	466	512	715	911
36	448	493	705	761	676	730	493	542	757	1009
38	500	550	786	848	754	813	549	604	843	1112
40	554	609	870	940	835	902	608	669	934	1220
42	611	672	959	1036	920	994	670	738	1030	1333
44	670	737	1053	1137	1010	1091	736	810	1130	1452
46	733	805	1151	1243	1104	1192	805	885	1235	1575
48	798	877	1253	1353	1202	1298	876	964	1345	1704
50	865	951	1360	1468	1304	1409	950	1046	1459	
52	936	1029	1471	1588	1411	1524	1028	1131	1578	

The breaking load figures are shown above as kilo Newton To obtain values in metric tonne multiply the figures shown above by 0.102 Maximum safe working load = breaking load of rope / factor of safety (Min-5)