

Stronger Together

BUSINESS
COMPANY
PROFILE

**"Stronger Together:
Crafting Quality Wire
Ropes for Every Industry"**

COMPANY INTRODUCTION

Welcome to Roraj Industries, your premier destination for wire rope solutions tailored to meet the needs of diverse industries. With precision engineering and a commitment to excellence, we deliver top-quality wire rope products designed to elevate performance across every sector.

Roraj Industries is developing and fast growing manufacturer of Steel Wire rope in India and globally.

At Roraj Industries we have dedicated ourselves to perfection in the manufacture of bright wire ropes, wire strands, and wire rope slings. We believe that perfection is a continuous pursuit, and it is to that extent we have honed ourselves and our business. Our wide range of products meet the functional needs of a vast array of industrial applications.

The entirety of our product portfolio in wire ropes is focussed on stringent quality and safety criteria. We take pride in meeting these Safety and Quality requirements. All our products undergo rigorous testing at our Quality testing labs. Our wire rope products have met and passed some of the most stringent quality benchmarks in the wire ropes industry.

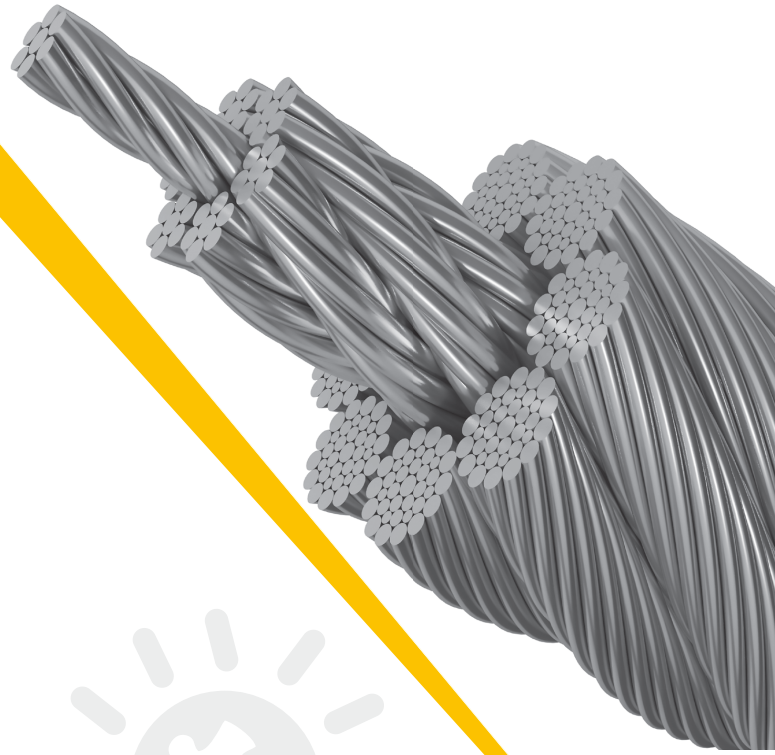
We have a widespread network of suppliers and distributors spanning a majority of the globe. We will ensure that your wire rope needs are met every time. You can always count on our team of specialists to provide you with all the operational assistance and support you need.





OUR VISION

At Roraj Industries, we envision a future where our wire ropes serve as the backbone of countless industries, enabling seamless operations and driving progress worldwide. We strive to build a cohesive community of stakeholders, empowering each other to thrive and innovate, while consistently setting the benchmark for quality and reliability in the wire rope industry. Together, we are stronger, crafting a sustainable future built on trust, integrity, and superior craftsmanship.



OUR MISSION

To be the leading provider of high-quality wire rope solutions tailored to meet the diverse needs of every industry. Strive for continuous innovation and improvement in our manufacturing processes to ensure the highest standards of quality and reliability. Foster strong partnerships with our clients, suppliers, and employees to create a collaborative environment where we can excel together. Maintain a commitment to sustainability and environmental responsibility in all aspects of our operations.

WIRE ROPE CORES

The core of a wire rope is the central member around which the main strands are laid. Its principal function is to support the strands and maintain them in their proper position when loads are applied. The four types of cores commonly used in wire ropes are independent wire rope cores (IWRC), wire strand cores (WSC), and fiber cores (FC) of either jute or synthetic fiber.

Independent Wire Rope Core (IWRC)

This is a separate wire rope used as a core in the main wire rope.

Wire Strand Core (WSC)

A single strand can be used as the core in a wire rope. The wire strand core may be of the same construction as the outer strands, or of different construction. A 6 strand rope with a wire strand core of a different construction from that of the main strands is called a 6 strand rope with WSC. If the core is of the same construction, the rope is usually called a 7 strand rope for example, 7x7 or 7x19. Strand cores are limited to stranding ropes and small diameter running ropes.

Fiber Core (FC)

These cores are fiber rope normally made from synthetic but occasionally made from natural fibers.

PROPERTIES OF WIRE ROPE CORES

The type of core selected can affect the properties of a wire rope in several ways. An independent wire rope core or a wire strand core: (1) increases a rope's strength; (2) does not yield as readily to the compressive action of the outer strands of the rope as does the softer fiber core, and thus tends to preserve the circular cross section of a rope where subjected to crushing action from over winding, or a rope bent around small sheaves and drums while heavily loaded; (3) provides longer lasting support under heavy loading than a fiber core; and (4) is more resistant to heat than a fiber core. Rope with wire cores, because of their smaller amount of strength, is especially suitable for low elongation applications.

A fiber core: (1) is more flexible and thus permits a wire rope to conform more readily to small radii of curvature; and (2) is suitable for wire rope in some applications where shock loads are involved because of its resilience.

LUBRICATION

Lubrication is as necessary for a wire rope as it is for any machines. It does two important things: It reduces internal friction in the rope, and it protects the wires from corrosion. The type of lubricant applied to the rope during fabrication, the amount used, and the method of application depend on the size and construction of the rope and on the general field of service for which it is intended. Relubrication during use is necessary to replenish the original lubricant as it becomes depleted.

HOW TO ORDER

When you are placing order or requesting for a quote please fill the following information:

- 1.Length:** The length of each piece and number of pieces should be specified.
- 2. Diameter:** Diameter should be specified.
- 3. Construction:** Construction should be specified.
- 4. Finish:** If no finish is specified, bright strand or rope will be furnished. If a galvanized product is requested, it should be specified.
- 5.Grade:** The grade should be stated, such as 160kg/mm², 180kg/mm², 1770MPa or 1570N/mm²
- 6. Performing:** When preformed Wire Rope is desired, the order should be stated, likewise, non-preformed rope should be specified if desired.
- 7. Lay:** Both direction of lay and type of lay should be stated. Right Lay will be furnished if no direction is specified. Regular lay will be furnished unless otherwise specified.
- 8. Core:** The type of core desired must be stated.
- 9. Purpose:** It is desirable to advise the purpose or intended end for the rope.



MAIN PRODUCTS

- STEEL WIRE ROPES
- AIRCRAFT CABLE
- STEEL WIRE ROPE FOR AUTOMOBILE WIRE
- STRAND FOR AUTOMOBILE(CONTROL CABLE)
- VINYL COATED CABLE
- WIRE STRAND FOR OVERHEAD CONDUCTOR
- STAINLESS CABLE
- GALVANIZED WIRE ROPE
- UNGALVANIZED WIRE ROPE
- PVC COTED WIRE ROPE

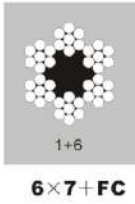
MANUFACTURING FACILITIES



ISO9001 QUALITY CONTROL SYSTEM

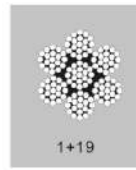
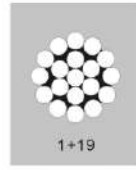


For Well Drilling and Mining Aerial Tramway, Stay, etc. (Galvanized & Bright)



Diameter	mm	Inch	Approx Weight kg/100m	Minimum Breaking Strength in Kg			
				15kgf/cm ²	16kgf/cm ²	18kgf/cm ²	19kgf/cm ²
3	1/8	3.7	550	850	660	710	
4	3/32	5.9	650	970	1,050	1,150	
5	3/16	9.3	1,340	1,520	1,650	1,780	
6	1/4	13.4	1,920	2,150	2,380	2,540	
7	5/32	15.2	2,010	2,270	2,240	2,510	
8	5/16	23.7	3,420	3,880	4,230	4,580	
9	3/8	30.5	4,220	4,910	5,350	5,690	
10	—	37.1	5,240	5,900	6,010	7,160	
11	7/16	45.5	6,100	7,600	8,240	8,880	
12	—	53.4	7,660	8,730	9,520	10,300	
12.5	1/2	57.8	8,240	9,470	10,360	11,200	
14	9/16	72.3	10,500	11,900	13,000	14,200	
16	5/8	92.0	13,700	15,580	17,300	18,380	
18	11/16	139.0	17,380	19,880	21,400	23,200	
19	3/4	154	19,490	22,000	24,000	26,000	
20	13/16	148	21,460	24,200	26,400	28,600	
22	7/8	180	26,800	30,400	33,200	35,900	
24	1 5/16	214	30,650	34,650	38,100	41,200	
25	1	253	33,490	37,990	41,300	44,600	

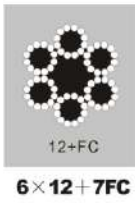
AVAILABLE CONSTRUCTIONS & SIZES



7×19

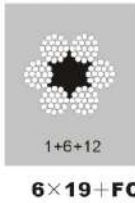
Code	Dia		Tolerance on Diameter (Plus only)	Allowance Pos./Neg. in diameter (mm)	Nominal Breaking Load (kN)	Approx. Weight kg/120m
	mm	inch				
1618	132	5.19	0.025	0.026	57	0.31
	304	1.19	0.025	0.026	131	0.71
	110	1.59	0.026	0.026	265	1.26
	584	1.96	0.026	0.026	363	2.04
	332	2.58	0.029	0.026	544	2.58
	164	2.78	0.011	0.016	726	4.02
	1/6	3.16	0.013	0.011	953	5.21
	592	3.87	0.016	0.016	1,487	8.19
	316	4.70	0.016	0.019	2,132	11.48
	732	5.56	0.016	0.026	2,858	15.18
	1/4	6.35	0.016	0.021	3,719	20.09
	932	7.14	0.016	0.023	4,593	25.40
518	7.94	0.020	0.024	5,670	31.28	
3/8	8.92	0.023	0.027	6,785	38.18	
718	11.1	0.028	0.030	11,113	61.89	
1/2	12.5	0.028	0.033	14,516	77.85	
3/4	1.19	0.030	0.039	122	0.63	
1118	1.59	0.035	0.039	216	1.12	
584	1.88	0.040	0.030	336	1.74	
332	2.38	0.040	0.040	417	2.35	
1/6	2.78	0.042	0.040	573	3.44	
1/8	3.16	0.042	0.041	706	4.50	
523	3.97	0.044	0.041	1,130	7.01	
316	4.78	0.048	0.045	1,576	9.88	
732	5.56	0.048	0.049	2,390	13.75	
1/4	6.35	0.048	0.051	2,904	17.54	
932	7.14	0.048	0.053	3,628	22.68	
518	7.94	0.052	0.054	4,496	28.95	
3/8	8.92	0.052	0.057	5,498	34.32	
1118	1.19	0.058	0.055	216	1.12	
332	2.38	0.058	0.040	417	2.35	
1/6	3.16	0.062	0.041	756	4.32	
518	4.75	0.064	0.045	1,676	9.87	
1/4	6.35	0.068	0.051	2,905	16.37	
518	7.94	0.072	0.054	4,082	25.75	
3/8	8.92	0.075	0.057	5,443	36.19	
1/2	12.5	0.080	0.063	9,676	62.94	
5/8	16	0.087	0.059	15,120	120.14	
7/8	20	0.092	0.048	29,936	163.11	
1	25	0.090	0.050	38,710	249.38	

For Running Rigging, Lift Line, Mooring Lines, Towing Hawsers and General Engineering Marine Purposes (Galvanized & Bright)



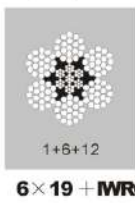
Diameter	mm	Inch	Approx Weight kg/100m	Minimum Breaking Strength in Kg	
				15kgf/cm ²	16kgf/cm ²
4	5/32	4.4	530	590	
5	5/16	6.8	850	910	
6	1/4	9.6	1,200	1,300	
7	5/32	13.4	1,830	1,790	
8	3/16	16	2,130	2,340	
9	3/8	22.1	3,700	2,970	
10	—	27.3	3,330	3,880	
11	7/16	34.3	4,160	4,060	
12	—	39.3	4,800	5,280	
12.5	1/2	42.7	5,220	5,720	
14	5/8	53.5	6,250	7,160	
16	5/8	64.9	8,520	9,370	
18	11/16	80.5	10,800	11,900	
19	3/4	86.0	12,000	13,200	
20	13/16	109	13,300	14,600	
22	7/8	137	18,700	18,400	
24	1 5/16	157	19,200	21,100	
25	1	171	20,800	22,900	
26	1 1/8	214	25,100	28,700	

For Oil Well Drilling, Crane & Hoist, Marine Purpose, Mine Service and General Engineering Lashing Purposes (Galvanized & Bright)



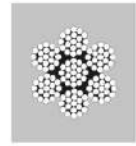
Diameter	mm	Inch	Approx Weight kg/100m	Minimum Breaking Strength in Kg			
				15kgf/cm ²	16kgf/cm ²	18kgf/cm ²	19kgf/cm ²
3	5/32	3.75	450	485	528	593	
4	3/32	5.40	610	660	700	790	
5	3/16	9.10	1,270	1,365	1,450	1,620	
6	1/4	13.1	1,820	1,965	2,110	2,340	
7	5/32	17.4	2,480	2,700	2,870	3,190	
8	5/16	23.3	3,240	3,520	3,750	4,160	
9	3/8	29.5	4,110	4,480	4,740	5,270	
10	—	36.4	5,070	5,500	5,850	6,500	
11	7/16	45.7	6,080	6,600	7,050	8,150	
12	—	52.4	7,000	7,600	8,130	9,350	
12.5	1/2	56.9	7,820	8,590	9,150	10,200	
14	9/16	71.3	9,820	10,800	11,500	12,800	
15	5/8	80.2	13,000	14,100	15,000	16,700	
18	11/16	118	18,400	17,800	19,200	21,600	
19	3/4	131	19,300	18,400	20,200	23,400	
20	13/16	148	20,300	22,900	24,400	28,600	
22	7/8	180	28,400	27,600	29,400	32,600	
24	1 5/16	210	36,200	31,780	33,700	37,880	
25	1	225	31,700	34,430	36,020	40,780	
26	1 1/8	254	34,200	39,320	43,300	49,800	
28	1 1/8	286	39,700	45,100	49,900	56,800	
30	1 3/16	328	45,800	49,920	52,750	58,500	
32	1 1/4	375	51,200	56,300	60,200	66,600	
33	1 1/2	425	—	120,000	—	—	

For Oil Well Drilling, Crane & Hoist, Marine Purpose, Mine Service and General Engineering Lashing Purposes (Galvanized & Bright)

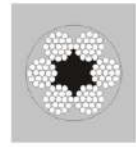


Diameter	mm	Inch	Approx Weight kg/100m	Minimum Breaking Strength in Kg			
				15kgf/cm ²	16kgf/cm ²	18kgf/cm ²	19kgf/cm ²
3	3/16	10.1	1,360	1,380	1,660	1,790	
4	1/4	14.5	2,060	2,200	2,390	2,580	
5	5/32	15.7	2,720	3,020	3,250	3,510	
6	5/16	25.8	3,880	3,930	4,280	4,670	
8	3/8	32.8	4,900	4,950	5,600	5,940	
10	—	40.4	5,550	5,600	6,650	7,120	
11	7/16	50.8	6,070	7,880	8,250	9,600	
12	—	55.8	6,620	8,750	9,580	10,400	
12.5	1/2	63.8	8,100	9,930	10,400	11,200	
14	9/16	79.3	10,900	12,600	13,200	14,200	
16	5/8	104	14,200	15,800	17,100	18,400	
18	11/16	131	18,300	19,800	21,200	22,200	
19	3/4	141	20,300	22,300	24,200	25,200	
20	13/16	162	22,300	24,400	26,300	28,300	
22	7/8	202	27,900	30,600	33,400	36,000	
24	1 5/16	235	30,000	32,900	35,300	41,200	
25	1	253	34,800	38,100	41,500	44,800	
26	1 1/8	287	38,200	41,600	45,500	51,800	
28	1 1/2	316	43,500	47,800	50,100	56,300	
30	1 3/16	365	50,900	55,000	60,200	64,800	
32	1 1/4	415	62,500	67,500	73,000	77,700	

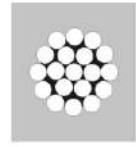
Stainless Steel Wire Rope



Stainless Steel Wire Rope



Stainless Steel Wire Rope

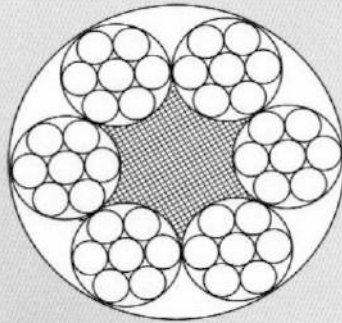


Nominal Diameter	D(mm)	Tolerance %	Weight per Unit of Length kg/m	Minimum Breaking Force kn	
				When Tensile Strength= 1570N/mm	1770N/mm
3	—	+8 0	0.0342	—	—
4	—	+7 0	0.0609	—	5.29
5	—	0	0.0952	—	14.7
6	—	+6 0	0.138	—	21.2
7	—	0	0.197	—	28.9
8	—	+5 0	0.243	53.3	37.9
9	—	0	0.308	42.2	47.6
10	—	0	0.381	52.1	58.8
11	—	+5 0	0.461	63.1	71.1
12	—	0	0.546	75.6	84.2
13	—	0	0.643	88.1	99.3
14	—	0	0.746	102	115
16	—	0	0.974	133	150

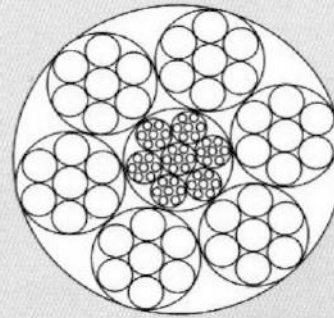
Nominal Diameter	D(mm)	Tolerance %	Weight per Unit of Length kg/m	Minimum Breaking Force kn	
				When Tensile Strength= 1570N/mm	1570N/mm
3	—	+8 0	0.0311	—	4.00
4	—	+7 0	0.0544	—	6.70
5	—	0	0.0865	—	13.6
6	—	+6 0	0.129	—	19.6
7	—	0	0.170	—	26.7
8	—	+5 0	0.221	30.9	34.8
9	—	0	0.280	39.1	44.1
10	—	0	0.348	48.2	54.4
11	—	+5 0	0.419	58.4	65.8
12	—	0	0.498	69.5	78.3
13	—	0	0.585	81.5	91.9
14	—	0	0.678	94.6	107
16	—	0	0.886	124	139

Nominal Diameter	D(mm)	Tolerance %	Weight per Unit of Length kg/m	Minimum Breaking Force kn	
				When Tensile Strength= 1570N/mm	1570N/mm
1	—	+5 0	0.00495	0.325	0.330
1.5	—	0	0.0111	1.85	2.09
2	—	0	0.0198	3.30	3.72
2.5					

BREAKING LOAD AND MASS FOR 6 × 7 (6/1) CONSTRUCTION



With Fibre Core

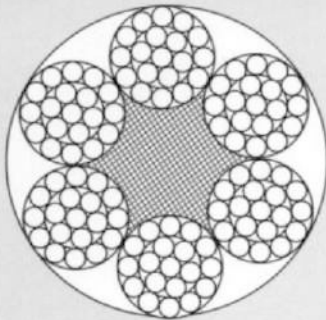


With Steel Core

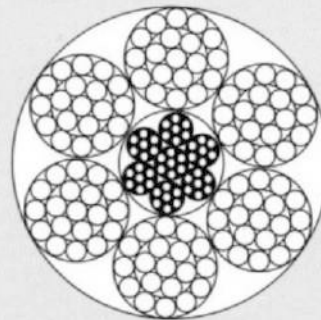
Nominal Diameter (MM)	Approximate		Minimum Breaking Load Corresponding To Tensile Designation of the Wires of					
			1570		1770		1960	
	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
	FC	SC	FC	SC	FC	SC	FC	SC
mm	kg/100m		kN	kN	kN	kN	kN	kN
1	2	3	4	5	6	7	8	9
2	1.43	1.57	—	—	2.4	2.5	2.6	2.8
3	3.22	3.54	—	—	5.3	5.7	5.9	6.3
4	5.72	6.29	—	—	9.4	10.2	10.4	11.3
5	8.94	9.83	—	—	14.7	15.9	15.3	17.6
6	12.9	14.9	—	—	21	23	23	25
7	17.5	19.3	—	—	20	31	32	34
8	22.9	25.2	33	36	38	41	42	45
9	28.9	31.8	42	45	48	51	53	57
10	35.7	39.3	52	56	59	63	65	70
11	43.2	47.6	63	68	71	77	79	85
12	51.5	56.6	75	81	85	91	94	101
13	60.4	66.4	88	95	99	107	110	119
14	70.1	77.0	102	110	115	124	128	138
16	91.5	101	133	144	151	162	167	180
18	116	127	169	182	190	206	211	228
19	129	142	188	203	212	229	235	254
20	143	157	209	225	235	254	260	281
22	173	190	252	273	285	307	315	340
24	206	227	300	324	339	366	375	405
26	242	266	352	381	397	429	440	475
28	280	308	409	441	461	498	510	551
32	366	403	534	577	602	650	667	721
36	463	509	676	730	762	823	844	911
40	572	629	834	901	941	1016	1042	1125

Note 1 - To obtain the calculated aggregate breaking loads of the ropes, multiply the figures given in col 4, 6 and 8 by 1.112 and those in col 5, 7 and 9 by 1.220.
Note 2 - The nominal diameter 19mm is non-preferred.

MASS & BREAKING FORCE FOR 6 × 19M (12/6-1) CONSTRUCTION ROPES



With Fibre Core

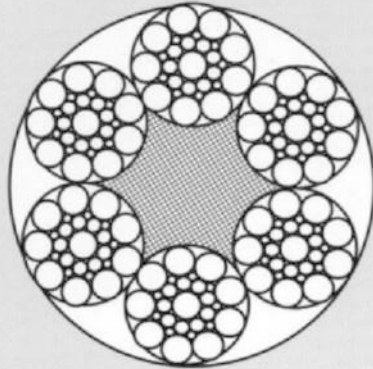


With Steel Core

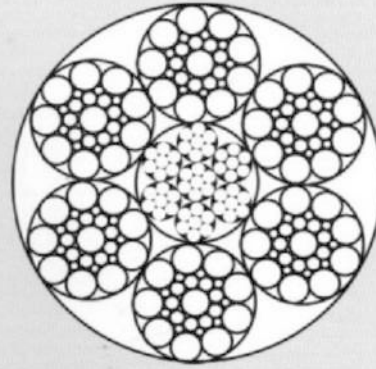
Nominal Diameter (MM)	Approximate		Minimum Breaking Force Corresponding to Rope Grade of					
			1570		1770		1960	
	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
	FC	SC	FC	SC	FC	SC	FC	SC
1	2	3	4	5	6	7	8	9
mm	kg/100m		kN	kN	kN	kN	kN	kN
3	3.11	3.43	—	—	4.9	5.3	5.4	5.9
4	5.54	6.09	—	—	8.7	9.4	9.6	10.4
5	8.65	9.52	—	—	13.6	14.7	15.1	16.3
6	12.5	13.7	—	—	19.6	21	22	23
7	17.0	18.8	—	—	27	29	30	32
8	22.1	24.4	31	33	35	38	39	42
9	28.0	30.8	39	42	44	48	49	53
10	34.6	38.1	48	52	54	59	60	65
11	41.9	46.1	58	63	66	71	73	79
12	49.8	54.8	69	75	78	85	87	94
13	58.5	64.3	82	88	92	99	102	110
14	67.8	74.6	95	102	107	115	118	128
16	88.6	97.4	124	133	139	150	154	167
18	112	123	156	169	176	190	195	211
19	125	137	174	188	196	212	217	235
20	138	152	193	208	218	235	241	260
22	167	184	234	252	263	284	292	315
24	199	219	278	300	313	338	347	375
26	234	257	326	352	368	397	407	440
28	271	298	378	409	426	461	472	510
32	354	390	494	534	557	602	617	666
36	448	493	625	675	705	761	781	843
38	500	550	697	752	785	848	870	939
40	554	609	772	843	870	940	964	1041
44	670	—	934	—	1053	—	1166	—
48	797	—	1112	—	1253	—	1388	—
52	936	—	1305	—	1471	—	1629	—

Note - To calculate the aggregate breaking force multiply the figures given in column 4, 6 and 8 by 1.163 and in column, 5, 7 and 9 by 1.25.
1) Wire strand core may be used for rope diameter 12 mm and below.

MASS AND BREAKING FORCE FOR 6 × 19S (9-9-1) CONSTRUCTION ROPES



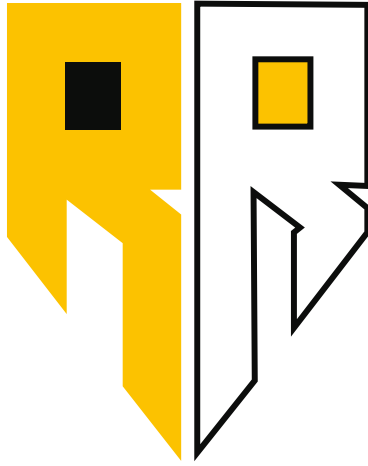
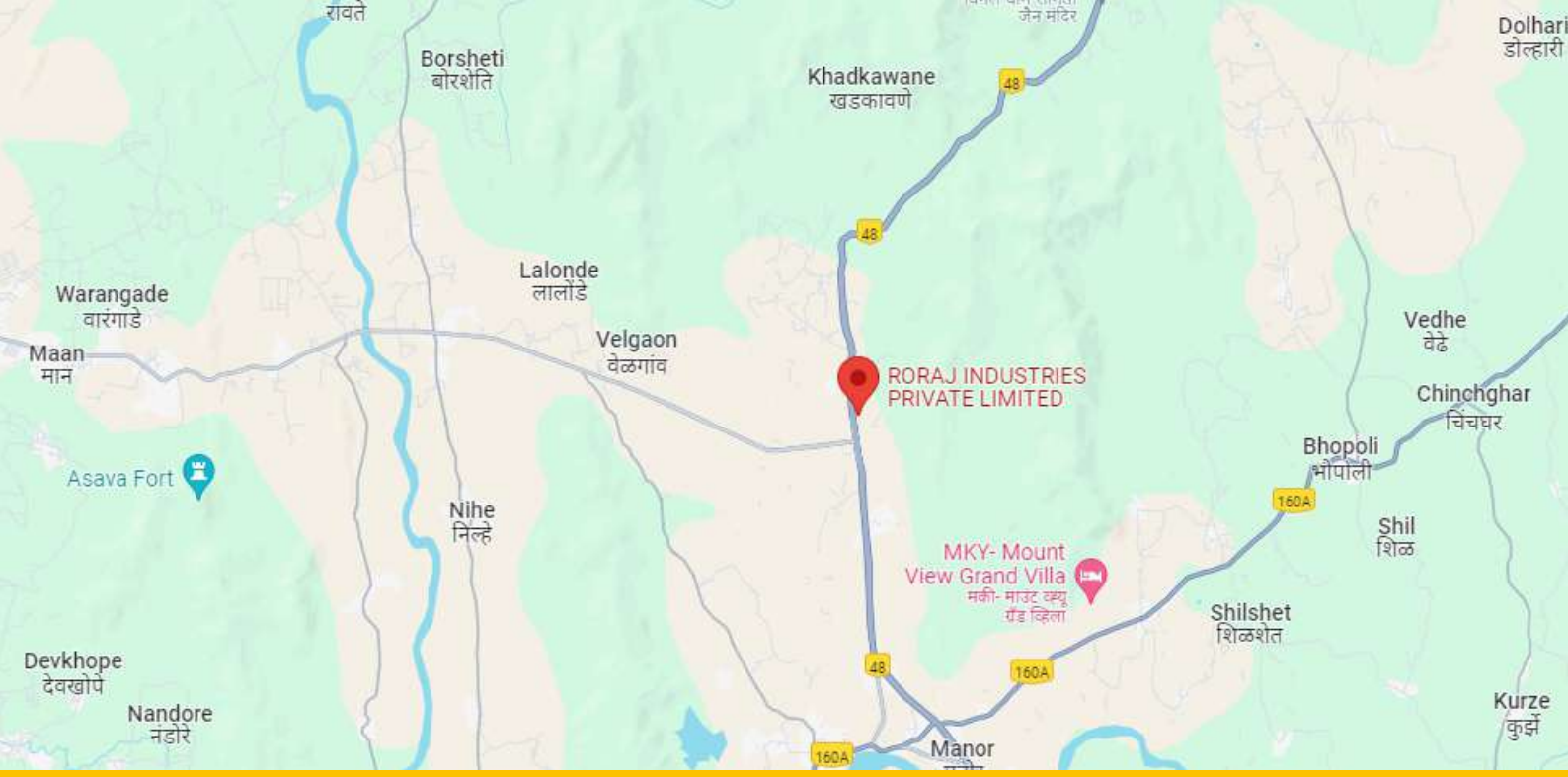
**6×19 S (9-9-1)
With Fibre Core**



**6×19 S (9-9-1)
With Steel Core**

Nominal Diameter (MM)	Approximate		Minimum Breaking Force Corresponding to Rope Grade of					
			1570		1770		1960	
	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
	FC	SC	FC	SC	FC	SC	FC	SC
1	2	3	4	5	6	7	8	9
mm	kg/100m		kN	kN	kN	kN	kN	kN
8	23.8	26.2	33	36	37	40	42	45
9	30.2	33.2	42	45	47	51	53	57
10	37.3	41.0	52	56	59	63	65	70
11	45.1	49.6	63	68	71	77	78	85
12	53.7	59.0	75	81	84	91	93	101
13	63.0	69.3	88	95	99	107	110	118
14	73.0	80.3	102	110	115	124	127	137
16	95.4	105	133	144	150	162	166	179
18	121	133	168	182	190	205	210	227
19	135	148	188	203	211	228	234	253
20	149	164	208	224	234	253	260	280
22	180	198	252	272	284	306	314	339
24	215	236	299	323	337	364	374	403
26	252	277	351	379	396	428	439	474
28	292	321	407	440	459	496	509	549
32	382	420	532	575	600	648	664	717
36	483	531	673	727	759	820	841	908
38	538	592	750	810	846	913	937	1012
40	596	656	831	898	937	1012	1038	1121
44	721	794	1006	1086	1134	1225	1256	1356
48	858	744	1197	1293	1350	1458	1495	1614
52	1008	1108	1405	1517	1584	1711	1754	1894

Note :- To calculate the aggregate breaking force, multiply the figures given in col 4, 6 and 8 by 1.163 and in col 5, 7 and 9 by 1.25
1) Wire strand core may be used for rope diameter 12 mm and below.



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