



Gaurav Wire Ropes

Technical **CATALOGUE**

Crafting Quality Wire Ropes Since 1982

www.gauravwireropes.com



Forging the Future of Strength and Reliability.

At Gaurav Wire Ropes, we don't just manufacture wire ropes we engineer critical components that power the world's most challenging applications. Since our establishment 1982, we have built a reputation as a trusted, ISO-certified manufacturer and exporter, delivering a diverse and premium range of steel wire ropes and other ropes worldwide.

Advanced infrastructure

Our 87,120 sq. ft. facility in Palghar is equipped with the latest machinery and managed by a team of highly experienced professionals.

Our Commitment to Excellence:

Diverse Portfolio: We offer a complete spectrum of products, including Stainless Steel Wire Ropes (SS304, SS316), Galvanized Steel Wire Ropes, High-Carbon Steel Wire ropes, and specialty items like PVC-Coated ropes and Invisible Grill Wire Ropes, cable socks, slings etc.

Zero-Defect Production: Our state-of-the-art manufacturing facility in Palghar, Maharashtra, is equipped with a modern process control system dedicated to the production of zero-defect products, ensuring supreme quality and minimum lead time.

Global Standards: Every product is crafted for dimensional accuracy, optimum tensile strength, and superior corrosion resistance, meeting the stringent demands of industries from lifting and marine to construction and engineering.

Partner with Gaurav Wire Ropes for unmatched expertise, exceptional product quality, and a commitment to helping you achieve maximum efficiency and safety!

QUALITY ASSURANCE

Our QA process is comprehensive, covering all stages from raw material procurement to the final dispatch of the finished product, with the goal of providing flawless products.

Quality Management System and Certifications

ISO Certification: They hold the ISO 9001:2015 Certificate, indicating they have an internationally recognized Quality Management System in place.

Compliance: Their products, such as PVC Coated Wire Ropes, are manufactured to comply with standards as per IS.

Lab: Inhouse lab under engineer observation for testing breakload of wire and wire ropes

Infrastructure: We utilize modern, state-of-the-art process control systems in their manufacturing unit to facilitate the production of zero-defect products.

R&D: They have an R&D facility and team that conducts research on raw materials, technology, and manufacturing processes to continuously improve quality.

Stage, Quality Control Activity

Raw Material Procurement : "Stringent quality control begins with the procurement of raw material (e.g., stainless steel, high carbon steel) from reliable and trusted vendors."

Manufacturing Process : Close inspection is conducted by a team of quality inspectors at every stage of production.

Drawing Process : "The critical drawing process, which determines the steel wire's mechanical characteristics, involves a series of chemical and mechanical tests (e.g., checking nominal diameter, tensile strength, twisting, bending, and zinc coating uniformity)."

Final Product Dispatch : Finished wires and ropes are passed through rigid quality control tests.

Certificate of Registration

*This is to certify that
The Quality Management System of*

GAURAV WIRE ROPES

Plot No.7/8 / 28 & 29, Survey No.40, Siddharth Industrial Estate,
Village Veoor, Nandore Road, Palghar (E)-401404, Maharashtra, India

*has been assessed and found to be in accordance with the
requirements of the Quality Management System standard*

ISO 9001:2015

for the following scope :

**Manufacturing of Steel Wire Ropes, Slings, PVC Coated
and Stainless Steel Wire Ropes**

CERTIFICATE No. : GAU23J3Q21IN

ISSUED DATE : 17/10/2023 1ST SURVEILLANCE DUE : 16/09/2024
EXPIRY DATE : 16/10/2026 2ND SURVEILLANCE DUE : 16/09/2025

Managing Director

IAF **UAF** **BMG**

For BMG Conformity Assessment Services Pvt. Ltd.
C-336, 2nd Floor, Sector-10, Noida-201301, G.B. Nagar, (U.P.) India
This Certificate is Intellectual Property of BMG and can be maintained through surveillance and renewal audits.
Certificate should be renewed to BMG in case of non-compliance of certification procedure.
Authenticity & Status of this certificate can be verified at www.bmgcertification.com or <https://uafaccreditation.org>

Government of India / भारत सरकार
Ministry of Commerce and Industry / वाणिज्य और उद्योग मंत्रालय
Directorate General of Foreign Trade / विदेश व्यापार महानिदेशालय
Office of the Additional Director General of Foreign Trade, Mumbai
CGO Office, New Building, SE wing, New Marine Lines, Churchgate, MUMBAI, MAHARASHTRA,
400020 / सीजीओ कार्यालय, न्यू बिल्डिंग, एस्ट विंग, न्यू मरीन लाइन्स, चर्चगेट, मुंबई, महाराष्ट्र, 400020

Importer-Exporter Code

This is to certify that GAURAV WIRE ROPES is issued an Importer-Exporter Code
(IEC) AAJFG9395D with details as follows -

IEC	AAJFG9395D
व्यापारिक नाम (फर्म) / PAN	AAJFG9395D
फर्म का नाम / Firm Name	GAURAV WIRE ROPES
निगम की प्रकृति / Nature of Concern	Partnership
जारी करने की तारीख / Date of Issue	20/04/2019
पता / Registered Address	GALA NO X 4/0M SAI COMMERCIAL COMPLEX, NEAR EKVERA GAS GODOWN, BHAYANDAR EAST, Thane, THANE, MAHARASHTRA, 401105
सहकर्म का नाम / Name of the Signatory	Vinodkumar Birbal Singh
Director / Partner Details	Refer online at https://dgft.gov.in or scan the QR Code
शाखा/दुकान / Branch Details	Refer online at https://dgft.gov.in or scan the QR Code

Last Modified : 17/07/2025
File Number : MUMIECPAMEND00038795AM26

Note : This is a system-generated certificate. Authenticity / Updated details of the IEC can be checked at official DGFT website <https://dgft.gov.in> by entering the IEC and Firm Name under Services > View Any IEC Details. You can also authenticate the certificate by scanning the QR code.

Certificate of Registration

GMCSPL hereby certify that the organization

**SANY WIND ENERGY INDIA
PRIVATE LIMITED**

Plot No.4, Phase-III, M.I.D.C. Chakan,
Taluka Khed, Pune, Maharashtra,
India, 410501

Has established and applies a Quality Management System in accordance with

ISO 9001:2015

For the scope of activities :

Assembly / Manufacturing of Hub and Nacelle for
SANY Wind Turbine - Model - SE14125, 2.5 MW

Q-200314
Certificate Number

30 March 2020
Date of Last Issue

30 March 2020
Date of Initial Registration

29 March 2021
Date of Expiry

Global MCS **IAS** **IAF**

Certificate is Valid for 3 Years (30.03.2020 to 29.03.2023) From the
Date of Initial Registration. Upon Successful Completion of Surveillance
Audit New Certificate With an Extended Validity will be issued.

Signed on behalf of GMCSPL

Global Management Certification Services Pvt.Ltd.
#402, Plot No.410, Midcari Nagar, Midc, Solingpur, Hyderabad - 500 049, India.
www.mcsplglobal.in, E-mail: info@mcsplglobal.in
This certificate is the property of GMCSPL, and shall be returned upon request by GMCSPL.
The Registration does not ensure the quality of public under the firm's production.

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Wire Rope:

A Wire Rope is a machine, by dictionary definition – “An assemblage of parts that transmit forces, motion and energy one to another in some predetermined manner and to some desired end.

A typical wire rope may contain hundreds of individual wires which are formed and fabricated to operate at close bearing tolerance one to another.

Every wire rope has three basic components:

1. The wires which form the strands and collectively provide rope strength.
2. The strands which are helically around the core.
3. The core which forms a foundation for the strands.

The greatest difference in wire ropes are found in the number of strands, the construction of strands, the size of the core, and the lay direction of the strand versus the core.

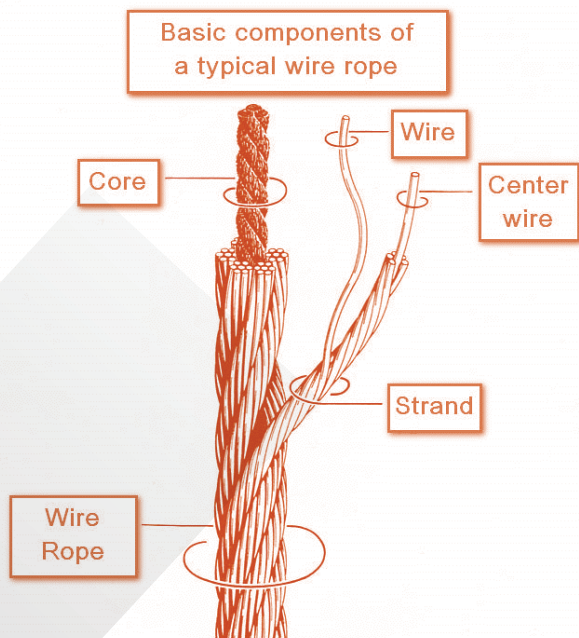
Wire Rope Materials:

The wires of wire rope are made of High Carbon Steel . These Carbon Steel Wires come in various grades. The term ‘Grade’ is used to designate the strength of the wire rope. Wire ropes are usually made as:

TENSILE DESIGNATION N/mm ²
1230
1420
1570
1770
1960

A review of the rope components:

Before one can discuss which of the many varieties of hoist rope available are appropriate for a particular usage, one must be familiar with the basic components of rope design.



A review of rope cores:



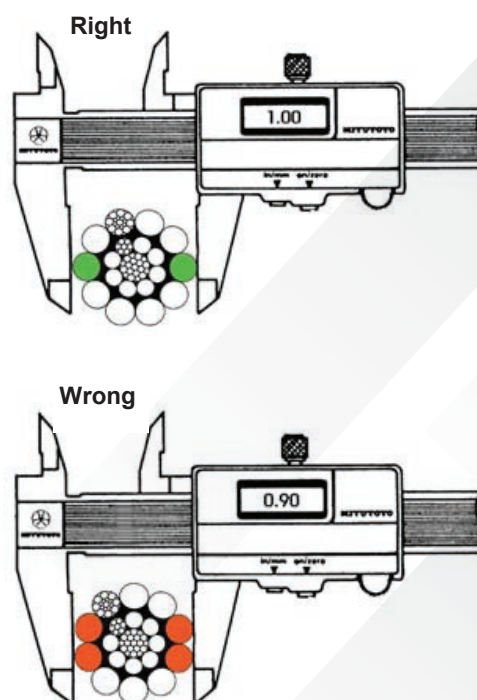
Right Regular Lay Left Regular lay Right Langs lay Left Langs Lay

Measuring Wire Rope:

Design specification for wire rope are such that the diameter is slightly larger than the nominal size as shown in the catalogue.

In Gaurav Wire Ropes, we produced Wire Rope with an allowable oversize tolerance of only 4%.

When put into service the wire rope diameter slightly decreases when first loaded. A further reduction in wire rope diameter indicates wear, abrasion, or core deterioration.

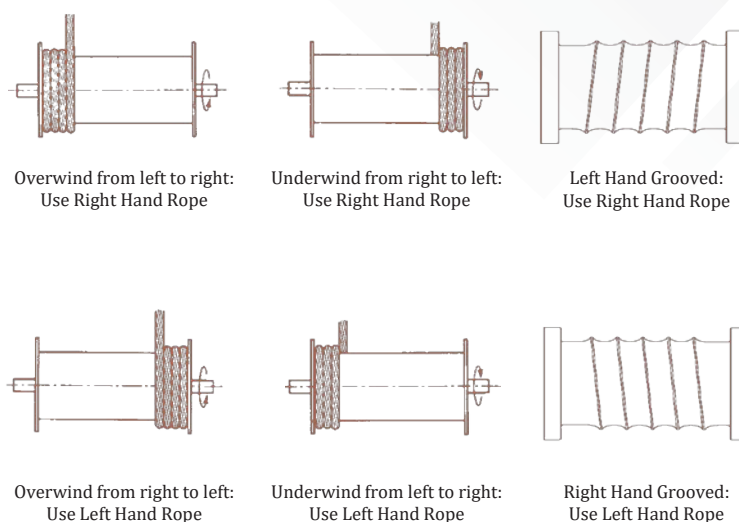


Wire Rope Lay Direction:

Be sure to use the correct rope lay direction for the drum. This applies to smooth, as well as to grooved drums.

In some applications it may be advisable to select the rope lay direction according to the most frequently used drums layers. If the first rope layer is used as a 'guide layer' only, it is advisable to select the rope lay direction according to the second layer.

If you are in doubt about this issue, give us a call and we will be happy to assist you.



Wire Rope Inspection:

An inspection should include verification that none of these removal criteria are met by checking for such things as:

Surface wear, normal and unusual
Broken wires: Number and location

Reduction in diameter

Rope stretch (elongation)

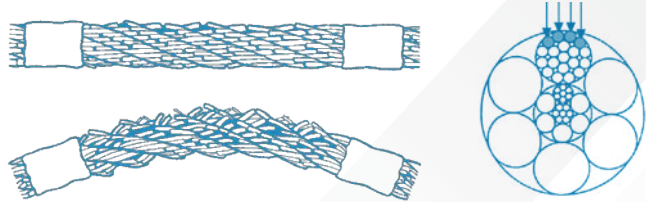
Integrity of attachments

Evidence of abuse or contact with other
objects

Heat damage

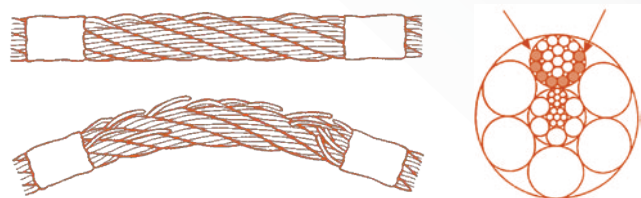
Corrosion

Under normal operating conditions individual wires will break due to material **FATIGUE**, Such breaks are usually located at the **CROWN** of a strand. **ALL** wire rope removal criteria are based on **CROWN** wire breaks.



DANGER

Remove the rope from service even if you find a **SINGLE** individual wire break which originates from inside of the rope. These so called **VALLEY** breaks have shown to be the cause for unexpected complete rope failures.



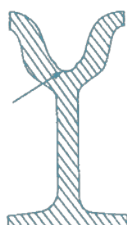
Inspection of Sheaves:



Sheave groove
matches rope



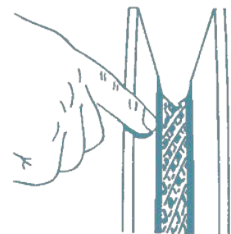
Sheave groove
too small



Sheave groove
worn out



New rope will
be damaged



Check for worn and
corrugated sheaves



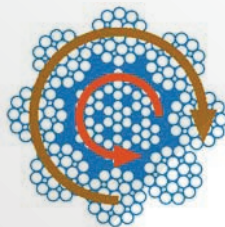
Rotation Resistant and Non-Rotating Wire Rope:

When loaded, every wire rope will develop torque; that is it has the tendency to

- unlay itself unless both rope ends are secured against rotation.
- cause a lower sheave block to rotate and to spin the line parts together.

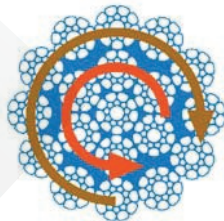
Rotation resistant ropes can be divided into 3 categories:

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Spin-Resistant, 2 layer
(8 to 10 outer strands)

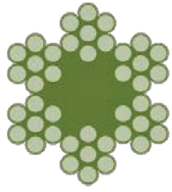
Rotation Resistant, 2
layer (11 to 13 outer
strands)



Non-Rotating, 3 layer
(14 or more outer
strands)



Example of a 2-layer rotation resistant
construction with 12 outer strands. (19x7)

**USAGE:**

Mining, Aerial, Drilling, Logging
and Marine, Heavy Hauling, Rope
Transmission, Well Drilling.

6 X 7 (6/1) Construction

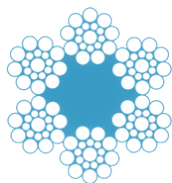
Nominal Diameter	Approx. Mass kg/100 m.		Min. Breaking Load kN (1570 N/mm ²)		Min. Breaking Load kN (1770 N/mm ²)		Min. Breaking Load kN (1960 N/mm ²)	
mm	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
2	1.4	1.53	2.1	2.26	2.35	2.54	2.60	2.81
3	3.2	3.43	4.7	5.00	5.29	5.72	5.86	6.33
4	5.7	6.0	8.3	9.0	9.40	10.2	10.41	11.25
5	8.9	9.5	13.0	14.0	14.7	15.9	16.27	17.59
6	12	13.7	18.8	20.3	21.2	22.9	23.42	25.33
7	17.5	18.7	25.5	28.0	28.8	31.1	31.88	34.48
8	23	24.4	33.5	36.0	37.6	40.7	41.65	45.03
9	29	30.9	42.0	46	47.6	51.5	52.70	57.00
10	35.5	38.8	52.0	56.5	58.8	63.6	65.07	70.36
11	43	46.1	63.0	68.0	71.15	77.0	78.74	85.14
12	51.5	54.9	75.0	81.0	84.7	91.6	93.70	101.32
13	60.5	64.4	88.0	95.3	99.4	107.5	109.98	118.92
14	70.0	74.7	102	110.5	115.25	125.0	127.54	137.91
15	80.5	85.8	117.0	127.0	132.3	143.0	146.40	158.32
16	91.5	97.6	134	144.5	150.5	163.0	166.58	180.13
17	103	110.10	151.0	163.0	170.0	184.0	188.00	203.35
18	116	123.5	169.0	182.7	190.5	206.0	210.83	227.98
19	129	137.6	188.0	203.6	212.3	229.6	234.90	254.00
20	143	152.4	209.0	225.6	235.2	254.4	260.29	281.45

USAGE:

Crane, Hoist, Drilling, Marine,
Engineering and Mining.

6 X 19 (12/6/1) Construction

Nominal Diameter	Approx. Mass kg/100 m.		Min. Breaking Load kN (1570 N/mm ²)		Min. Breaking Load kN (1770 N/mm ²)		Min. Breaking Load kN (1960 N/mm ²)	
Mm	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
3	3.11	3.43	4.3	4.7	4.9	5.3	5.20	5.64
4	5.54	6.09	7.7	8.4	8.7	9.4	9.25	10.00
5	8.65	9.52	12.0	13.0	13.6	14.7	14.45	15.68
6	12.5	13.7	17.0	18.8	19.6	21.0	20.80	22.58
7	17.0	18.6	23.4	25.5	27.0	29.0	28.34	30.37
8	22.1	24.3	31.0	33.0	35.0	37.6	37.00	40.14
9	28	30.8	39.0	42.0	44.0	47.5	46.84	50.80
10	34.6	38	48.0	52.0	54.0	58.7	57.82	62.72
11	41.9	46	58.0	63.0	66.0	71.0	69.96	75.89
12	49.8	54	69.0	75.0	78.0	84.6	83.26	90.32
13	58.5	64.3	82.0	88.0	92.0	99.0	97.71	106.00
14	67.8	74.5	95.0	102.0	107.0	115.0	113.32	122.93
16	88.6	97.4	124	133.0	139.0	150.0	148.00	160.56
18	112	123	156	160.0	176.0	190.0	187.33	203.21
19	125	137	174	188	196	212	208.73	226.42
20	138	152	193	208	218	235	231.28	250.88
22	167	184	234	252	263	284	279.85	303.56
24	199	219	278	300	313	338	333.00	361.26
26	234	257	326	352	368	379	390.86	423.98
28	271	298.4	378	408.5	426	460	453.30	491.72
32	354	389.8	494	533.5	557	601	592.07	642.25
36	448	493.3	625	670.0	705	761	749.34	812.85
38	499	549.6	697	752.0	785	848	834.92	905.67
40	554	609	772	834	870	939	925.0	1003.52
44	670	737	934	1009	1053	1136	1119.40	1214.25

**USAGE:**

Mining, Drilling, Cranes, Elevators,
General Engineering.

6 X 19 (9/9/1) Construction

Nominal Diameter	Approx. Mass kg/100 m.		Min. Breaking Load kN (1570 N/mm ²)		Min. Breaking Load kN (1770 N/mm ²)		Min. Breaking Load kN (1960 N/mm ²)	
mm	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
8	23.3	26.2	33	36	37	40	41.40	44.65
9	30.2	33.2	42	45	47	51	52.40	56.52
10	37.3	41	52	56	59	63	64.68	69.77
11	45.1	49.6	63	68	71	77	78.26	84.42
12	53.7	59	75	81	84	91	93.14	100.48
13	63	69.3	88	95	99	107	109.30	117.92
14	73	80.3	102	110	115	124	126.77	136.76
16	95.4	105	133	144	150	162	165.58	178.62
18	121	133	168	182	190	205	209.56	226.07
19	135	148	188	203	211	228	233.50	251.89
20	149	164	208	224	234	253	258.72	279.10
22	180	198	251	272	283	306	313.05	337.71
24	215	236	299	323	337	364	372.55	401.90
26	252	277	351	379	396	428	437.23	471.68
28	292	321	407	440	459	496	507.09	547.04
32	382	420	532	575	600	648	662.32	714.50
36	483	531	673	727	759	820	838.25	904.30
38	539	592	748	807	843	910	933.97	1007.56
40	596	656	831	898	937	1012	1034.88	1116.40
44	721	794	1006	1086	1134	1225	1252.20	1350.36

USAGE:

Crane, Hoist, Drilling, Marine,
General Engineering.

**6 X 19F (12/6 + 6F/1)
Construction**



Nominal Diameter	Approx. Mass kg/100 m.		Min. Breaking Load kN (1570 N/mm ²)		Min. Breaking Load kN (1770 N/mm ²)		Min. Breaking Load kN (1960 N/mm ²)	
mm	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
8	24.3	26.8	34	37	38	41	41.40	44.65
9	30.8	33.9	43	46	48	52	52.40	56.52
10	38	41.8	53	57	60	65	64.68	69.77
11	46	50.6	64	69	72	78	78.26	84.42
12	54.7	60.2	76	82	86	93	93.14	100.48
13	64.3	70.7	90	97	101	109	109.30	117.92
14	74.5	82	104	112	117	127	126.77	136.76
16	97.3	107	136	147	153	165	165.58	178.62
18	123	135	172	186	194	209	209.56	226.07
19	137	151	191	207	216	233	233.50	251.89
20	152	167	212	229	239	258	258.72	279.10
22	184	202	257	277	289	312	313.05	337.71
24	219	241	305	330	344	372	372.55	401.90
26	257	283	358	387	404	436	437.23	471.68
28	298	328	416	449	469	506	507.09	547.04
32	389	428	543	586	612	661	662.32	714.50
36	493	542	687	742	775	837	838.25	904.30
38	549	604	748	807	843	910	933.97	1007.56
40	608	669	848	916	956	1033	1034.88	1116.40
44	736	810	1026	1109	1157	1250	1252.20	1350.86

**USAGE:**

Crane, Hoist, Drilling, Logging,
Marine and General Engineering.

**6 X 37 (18/12/6/1)
Construction**

Nominal Diameter	Approx. Mass kg/100 m.		Min. Breaking Load kN (1570 N/mm ²)		Min. Breaking Load kN (1770 N/mm ²)		Min. Breaking Load kN (1960 N/mm ²)	
mm	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
8	22.1	24.4	30	32	33	36	37.00	40.14
9	28.0	30.8	37	40	42	46	46.84	50.80
10	34.6	38.1	46	50	52	56	57.82	62.72
11	41.9	46.1	56	60	63	68	69.96	75.89
12	49.8	54.8	67	72	75	81	83.26	90.32
13	58.5	64.3	78	84	88	95	97.71	106.00
14	67.8	74.6	91	98	102	110	113.32	122.93
16	88.6	97.4	118	128	134	144	148.00	160.56
18	112	123	150	162	169	183	187.33	203.21
19	125	137	167	180	188	203	208.73	226.42
20	138	152	185	200	209	225	231.28	250.88
22	167	184	224	242	253	273	279.85	303.56
24	199	219	267	288	301	325	333.00	361.26
26	234	257	313	338	353	381	390.86	423.98
28	271	297	363	392	409	442	453.30	491.72
32	354	389	474	512	534	577	592.07	642.25
36	448	492	600	648	676	730	749.34	812.85
38	499	549	668	722	753	813	834.92	905.67
40	554	608	741	880	835	902	925.12	1003.50
44	678	746	896	968	1010	1091	1119.40	1214.25

USAGE:

General Engineering.
6 X 36 (14/7 & 7/7/1)

Construction

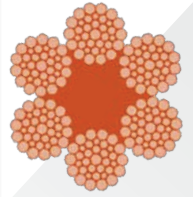
6 X 26 (10/5 & 5/5/1)

Construction

6 X 31 (12/6 & 6/6/1)

Construction

6 X 41 and 6 X 49 Construction



Nominal Diameter	Approx. Mass kg/100 m.		Min. Breaking Load kN (1570 N/mm ²)		Min. Breaking Load kN (1770 N/mm ²)		Min. Breaking Load kN (1960 N/mm ²)	
Mm	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
6	13.60	15.00	18.65	22.62	21.00	22.68	23.28	25.10
8	24.32	26.75	33.15	35.75	37.38	40.32	41.39	44.65
9	30.8	33.9	42	45	47	51	52.40	56.52
10	38	41.8	52	56	58	63	64.68	69.77
11	46	50.8	63	68	71	76	78.26	84.42
12	54.7	60.2	75	81	84	92	93.14	100.48
13	64.3	70.7	88	97	99	106	109.30	117.92
14	74.5	82	102	112	114	124	126.77	136.76
16	97.3	107	133	143	149	161	165.58	178.62
18	123	135	168	181	189	204	209.56	226.07
19	137	151	187	202	211	228	233.50	251.89
20	152	167	207	224	234	252	258.72	279.10
22	184	202	251	271	283	305	313.05	337.71
24	219	241	298	322	336	363	372.55	401.90
26	257	283	350	378	395	426	437.23	471.68
28	298	328	406	439	458	494	507.09	547.04
32	389	428	530	573	598	646	662.32	714.50
36	493	542	671	725	757	817	838.25	904.30
38	548.7	603.6	748	807	843	910	933.97	1007.56
40	608	669	829	895	934	1009	1034.88	1116.41
44	736	810	1003	1083	1131	1221	1252.20	1350.00

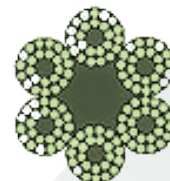
**USAGE:**

Lashing, Mooring, Towing.
**6 X 12 (12/Fibre) FC
 Construction**

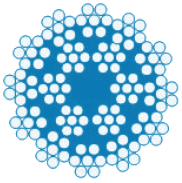
Nominal Diameter	Approx. Mass kg/100 m.	Min. Breaking Load kN (1420 N/mm ²)	Min. Breaking Load kN (1570 N/mm ²)
Mm		Fibre Core	Fibre Core
6	9.0	10.7	11.8
7	12.25	14.5	16.0
8	16.0	19.0	21.0
9	20.25	24	26.5
10	25.0	29.6	32.8
11	30.25	35.8	39.6
12	36.0	42.7	47.2
13	42.25	50.1	55.3
14	49.0	58.1	64.2
15	56.25	66.7	73.7
16	64	75.8	83.8
17	72.25	85.6	94.6
18	81	96.0	106
19	90.25	107	118
20	100	118	131
21	110.25	130	144
22	121	143	159
23	132.25	156	174
24	144.0	171	189
25	156.25	185	205
26	169.0	200	221
27	182.25	216	238
28	196	232	257
29	210.25	249	276
30	225	266	295
31	240.25	284	315
32	256.0	303	335

USAGE:

Marine.
**6 X 24 (15/9/Fibre) FC
 Construction**



Nominal Diameter	Approx. Mass kg/100 m.	Min. Breaking Load kN (1420 N/mm ²)	Min. Breaking Load kN (1570 N/mm ²)
Mm		Fibre Core	Fibre Core
8	19.7	25.4	28.1
9	24.9	32.2	35.6
10	30.8	39.8	44
11	37.3	48.1	53.2
12	44.4	57.3	63.3
13	52.1	67.2	74.3
14	60.4	77.9	86.2
16	78.8	102	113
18	99.8	129	142
19	111	144	159
20	123	159	176
22	149	192	213
24	177	229	253
26	208	269	297
28	241	312	345
32	315	407	450
36	377	487	539
38	399	515	570
40	445	574	635
44	493	636	703

**USAGE:**

Crane, General Engineering.

17 X 7 & 18 X 7 Construction

Nominal Diameter	Approx. Mass kg/100 m.		Min. Breaking Load kN (1570 N/mm ²)		Min. Breaking Load kN (1770 N/mm ²)		Min. Breaking Load kN (1960 N/mm ²)	
mm	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core	Fibre Core	Steel Core
8	24.5	25.7	32	33	36	37	40.00	41.14
9	31	32.6	41	42	46	47	51.00	52.07
10	38.3	40.2	50	52	56	58	62.00	64.29
11	46.3	48.6	61	62	68	70	76.00	77.78
12	55.1	57.9	72	74	81	84	90.00	92.57
13	64.7	67.9	85	87	95	98	106.00	108.65
14	75	78.8	98	101	111	114	122.00	126
16	98	103	128	132	144	149	160.00	164.57
18	124	130	162	167	183	188	202.00	208.30
19	138	145	181	186	204	210	225.00	232.08
20	153	161	200	206	226	232	250.00	257.15
22	185	195	242	249	273	281	302.00	311.15
24	220	231	288	297	325	335	360.00	370.30
26	259	272	338	348	381	393	422.00	434.58

USAGE:

Cables for Automobile & Instrumentation.

Wire Ropes for Automobile Control Cables

Figure	Nominal Diameter mm	Constrn.	Approx. Mass kg/100 m.	Min. Breaking Load kN (1770 N/mm ²)	Min. Breaking Load kN (1960 N/mm ²)
	1.2	6/1	0.7	1.2	1.3
	1.2	9/3	0.7	1.2	1.4
	1.6	9/3	1.2	2.2	2.4
	1.6	9/9/1	1.1	2.4	2.6
	1.2	12/6/1	0.7	1.3	1.4
	1.6	12/6/1	1.3	2.3	2.5
	1.8	12/6/1	1.6	2.8	3.1
	2.0	12/6/1	2.0	3.4	3.8
	2.5	12/6/1	2.9	5.4	6.0
	3.0	18/12/6/1	4.5	8.0	8.9
	3.5	18/12/6/1	6.0	10.9	12.1
	4.0	18/12/6/1	7.8	14.0	15.5
	3.0	7/12/6/1	3.9	5.3	5.9
	3.5	7/12/6/1	4.3	7.2	8.0
	4.0	7/12/6/1	6.7	9.4	10.4

Technical Data for Minimum Breaking and Permissible Working Load of Ferrule Secured Eye Terminals for Slings

Minimum Breaking Load

Permissible Breaking Load (Safe Working Load)

Diameter of Wire Rope mm	6 X 19		6 X 36		6 X 37	
	kN	(kgf)	kN	(kgf)	kN	(kgf)
4	7.8	(795)	-	-	-	-
5	12.2	(1 240)	-	-	-	-
6	17.6	(1 790)	-	-	16.9	(1 720)
7	23.9	(2 440)	-	-	23.0	(2 340)
8	31.2	(3 180)	-	-	30.0	(3 060)
9	39.6	(4 040)	42.3	4315	38.0	(3 870)
10	48.8	(4 870)	52.2	5324	46.9	(4 780)
11	59.1	(6 020)	64	6528	56.6	(5 770)
12	70.4	(7 180)	75.6	7711	61.3	(6 860)
13	82.4	(8 400)	88.3	9007	79.3	(8 080)
14	95.2	(9 700)	103	10506	91.7	(9 350)
16	126	(12 800)	134	13668	120	(12 200)
18	158	(16 100)	169	17238	152	(15 500)
20	195	(19 900)	210	21420	187	(19 100)
22	236	(24 100)	253	25806	227	(23 100)
24	282	(28 700)	302	30804	271	(27 600)
26	330	(33 600)	354	36108	317	(32 300)
28	383	(39 000)	411	41922	367	(37 400)
32	500	(51 000)	536	54672	481	(49 000)
36	633	(64 500)	680	69360	608	(62 000)
40	781	(79 600)	839	85578	749	(76 400)
44	905	(92 300)	1018	103836	982	(100 100)
48	1085	(110 600)	-	-	1184	(120 700)
52	1252	(127 600)	-	-	1345	(137 100)
56	1447	(147 500)	-	-	1578	(160 900)

6 X 19		6 X 36		6 X 37	
kN	(kgf)	kN	(kgf)	kN	(kgf)
1.3	(132)	-	-	-	-
2.3	(206)	-	-	-	-
2.9	(298)	-	-	2.8	(286)
4.0	(406)	-	-	3.8	(390)
5.2	(530)	-	-	5.0	(510)
6.6	(673)	7.0	714	6.3	(645)
8.1	(829)	8.7	887	7.8	(796)
9.8	(1003)	10.7	1091	9.4	(961)
11.7	(1196)	12.6	1285	10.2	(1143)
13.9	(1400)	14.7	1499	13.2	(1346)
15.8	(1616)	17.2	1754	15.3	(1558)
21.0	(2 133)	22.3	2275	20.0	(2033)
26.3	(2 683)	28.16	2872	25.3	(2583)
32.5	(3 316)	35.0	3570	31.1	(3 183)
39.3	(4 016)	42.16	4300	37.8	(3 850)
47.0	(4 783)	50.33	5134	45.1	(4 600)
55.0	(5 600)	59.0	6018	52.8	(5 366)
63.8	(6 500)	68.5	6987	61.1	(6 233)
83.3	(8 500)	89.33	9112	80.1	(8 166)
105	(10 750)	113.33	11560	101	(10 333)
130	(13 266)	140.0	14280	125	(12 733)
151	(15 383)	169.7	17309	163	(16 683)
181	(18 433)	-	-	197	(20 116)
208	(21 266)	-	-	224	(22 850)
241	(24 583)	-	-	263	(26 816)

- Notes:**
1. Permissible working load values are calculated taking a factor of safety of SIX. Higher factor of safety can be taken according to type of loading
 2. Breaking load values are applicable for only ferrule secured terminals and not for wire ropes.



GWIR

Gaurav Wire Ropes

HEAD OFFICE:

Vishal Industrial Estate
A/2, Fatak Road, Near Om Sai Mandir,
Near H. P. Gas Godown,
Bhayandar (East), Thane - 401105.
Maharashtra, India.

☎ 022-2818 2333

📞 022-2819 6789

✉ gauravindustries@yahoo.co.in

PLANT:

Plot No. 7&8, Survey No. 40,
Siddharth Industrial Estate,
Nandore Road, Village: Veoor,
Palghar (East) - 401404.
Maharashtra, India.

✉ gauravwireropes@gmail.com

