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MARUTI LIFT & SAFE MANUFACTURING LLP
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Gator Laid[®] Slings



NEXT GENERATION HEAVY-LIFT WIRE ROPE SLINGS

Gator Laid slings were developed in conjunction with the offshore oil industry to provide the worlds best heavy lift slings and grommets. These products were designed by Slingmax Inc. in the USA, in consultaion with key players in the lifting industry. A multipart wire rope product, Gator Laid slings were designed to improve upon the obvious shortcomings of cable laid slings & grommets. They comply with the requirements of the Wire Rope Technical Board (WRTB). Wire Rope Users Manual.

This is the strongest multi-part sling with great flexibility. It will develop it's full strength on small pins with a D/d ratio of 1/1 where D is the pin and d is the sling body. (4/1 D/d when comparing the pin to the component parts.) For heavy lifting work this is the most efficient wire rope sling that meets all the standards. The eyes have the wire ropes (12) laid in parallel so that there is no cross over and then they are wrapped in heavy duty material to keep them in position. Close tolerances are maintained during manufacturing, over conventional slings.

This is the product when a big lift but shorter sling is required

“Upholding the spirit of innovation, MARUTI Lift & Safe Manufacturing LLP has continued to build upon this great sling design by using their experience and feed back from other customers to establish this sling as the preffered choice for any lifting operator”

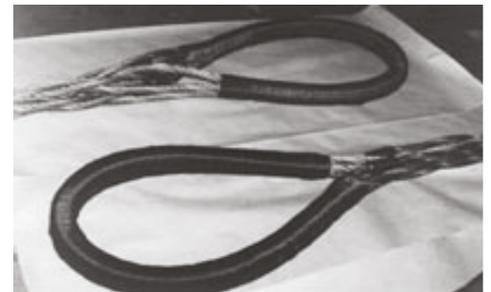


Please see overleaf for technical information

Feel free to call or email us for a quote or for further information ▶ ▶ ▶

Advantages of Gator Slings:

- Lighter in Weight
- Greater Flexibility
- Safer Teminations
- Safer Inspection



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Gator Laid slings have nine parts in the body and twelve parts in the eyes. The Safe Working Load (SWL) is calculated based on 9 parts and the sling construction is described as 9x(6x36/6x19+iwrc) when the component rope is a 6x36+iwrc or 6x19+iwrc construction. The SWL is calculated from the sum of the component rope MBL's (9) multiplied by a 0.9 efficiency factor. This efficiency factor takes into consideration the spinning loss and the termination efficiency, so no other reductions need to be considered and the SWL may be calculated directly from the MBL using the appropriate design factor (DF).

Hence SWL = (MBL x 9 parts x 0.9) / 5

The **Main Benefits** of this product are:

- **Lighter in Weight:** Depending on the size & length, Gator slings may be around 45% lighter than the equivalent cable laid product. This reduction is achieved by the use of parallel-laid eyes, braided body construction and a higher termination efficiency.
- **Greater Flexibility & Easier Handling:** The body construction of the Gator sling is made up of nine parts, which are laid up in three groups of three component ropes each. There is no core rope in the sling or at the eyes.
- **Safer Terminations:** The slings are terminated using aluminium ferrules - a well known and tried-and-tested method, universally demanded by the lifting industry for wire rope slings. The result is a safe termination without slippage under load. Added to this is the greater ergonomics of the Gator laid eye that requires no maintenance after lifting.
- **Easier & Safer Inspections:** In a Gator laid sling, all the component wire ropes are visible all the time - there is no core rope hidden by outer strands. Thus, visual inspection is easy and safe.

Gator Laid Slings Technical Chart

Rated Capacity in Metric Tonnes

Final Dia.	Component Parts	Std. Eye Size	Rated Capacity in Metric Tonnes			Weight Per Mtr.(Kgs.)
			Vertical	Choker	Basket	
1/2"	1/8"	8"	1.3	0.9	2.4	0.39
5/8"	3/16"	10"	1.6	1.3	3.3	0.60
3/4"	5/32"	12"	2.4	1.8	5.0	0.88
7/8"	7/32"	14"	3.4	2.4	6.7	1.15
1"	1/4"	16"	4.4	3.3	8.8	1.48
1-1/4"	5/16"	18"	6.7	5.0	13.3	2.33
1-1/2"	3/8"	20"	9.5	7.2	19.0	3.27
1-3/4"	7/16"	22"	13.0	10.0	26.0	4.70
2"	1/2"	24"	17.0	13.0	34.0	6.17
2-1/4"	9/16"	26"	22.0	17.0	44.0	7.92
2-1/2"	5/8"	28"	26.0	20.0	53.0	9.66
3"	3/4"	30"	38.0	28.0	75.0	13.95
3-1/2"	7/8"	35"	51.0	38.0	102.0	19.05
4"	1"	40"	67.0	50.0	132.0	24.82
4-1/2"	1-1/8"	45"	83.0	63.0	167.0	31.40
5"	1-1/4"	50"	102.0	77.0	206.0	38.78
5-1/2"	1-3/8"	55"	124.0	93.0	248.0	46.96
6"	1-1/2"	60"	147.0	110.0	293.0	55.82
7"	1-3/4"	70"	196.0	147.0	392.0	76.08
8"	2"	80"	254.0	190.0	508.0	99.16
9"	2-1/4"	90"	317.0	237.0	635.0	125.59
10"	2-1/2"	100"	388.0	291.0	776.0	155.05

Protecting the Sling Eyes: Wire rope seizing is provided at the eyes. Eyes can also be made by using strapping and wire rope seizing to form an eye at each end.

Discard Criteria: The sling must be discarded when there are 40 or more broken wires in a single braid (a complete twist in the body of the sling). Other discard criteria are, kinks or bird caging, severe corrosion, localised abrasion, heat damage.

Quality Control & Testing: The sling was developed to meet conditions specified by the US Navy and the Wire Rope Technical Board. Testing has proven it to be the strongest multi-part sling.

Certification provided with each Gator Laid Sling:

- Proof Load Certificate from our Government approved Works Test House.
- "Usha Martin Industries" certificate copy for wire rope used.



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NOTE: Vertical rated capacity is based on 5:1 Design Factor - EIP IWRC or GAC. Bending radius of the sling body is 5:1 where D is the Pin or Load and d is the sling body diameter. D/d of loops: 1/1 where D is the pin and d is the sling body diameter.