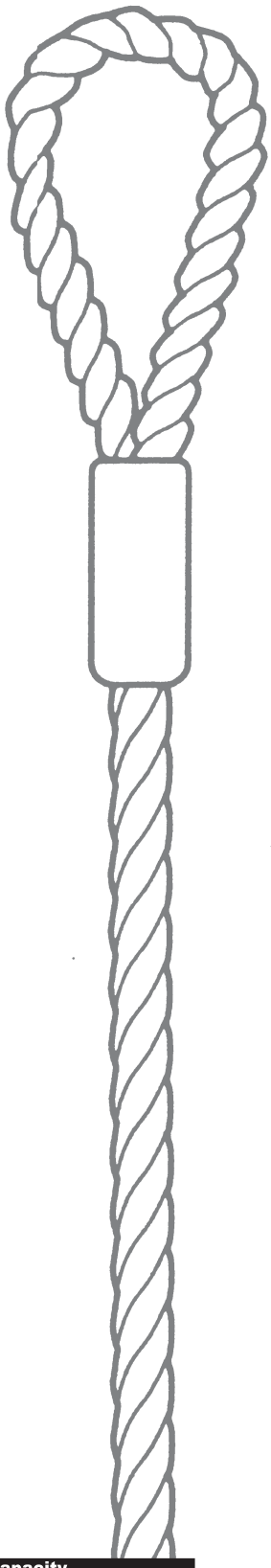
WIRE ROPE

Wire rope is made of wire **strands** and a **core**. The center **wire** is a round shaped wire used as the body member. Around this body member a group of wires are helically laid to form a **strand**. The **strands** are supported by the core, thus making up what we refer to as the wire rope diameter, which is utilized in manufacturing our wire rope slings.

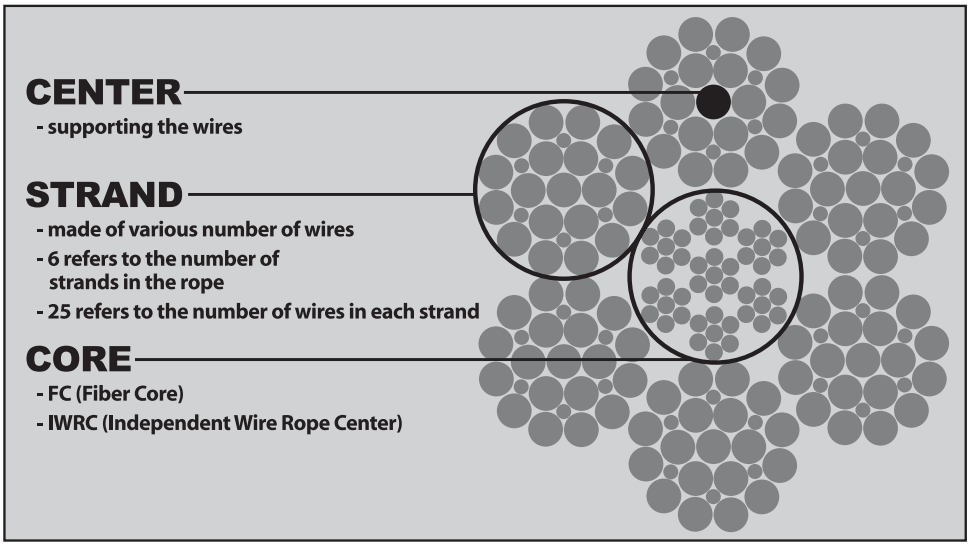
The greater the number of wires in a strand the more flexibility in the wire rope. The lower or less amount of wires in a strand the stiffer the wire rope. The center **core** may be made with a polypropylene Fiber Center **(FC)** or with a steel Independent Wire Rope Center **(IWRC)**.

Our established **standard** in manufacturing wire rope slings is by the use of a unique **6 x 26** steel core construction promoting both flexibility and high resistance to abrasion. Utilizing the highest grade of steel commonly referred to as an Extra-Improved Plow Steel **(EIPS)** construction to further provide you with superior load ratings, increased design factor, and ultimately the highest breaking strength in a wire rope sling!

In an ever-changing global market, we also offer you the customer the "preferred" choice of domestic or imported wire, compromising neither quality workmanship, nor designed operating work load limits.



CROSS CUT WIRE ROPE VIEW



Observe rated capacity.

WARNING!

Work load limits will be reduced when less than 90° from horizontal (See Efficiency Chart) Angles of less than 30° are not to be used. Inspect before use. Additional requirements and safe operating practices are outlined in current OSHA, Federal Register Part 29, 1910.184 and ASME B30.9 c-2000. **Death or injury can occur from improper use or maintenance!**

Wire Rope/Aircraft Cable*
BREAKING STRENGTHS AND APPROXIMATE WEIGHTS

Net capacity is breaking strength of wire rope/aircraft cable in tons (2000 lbs.)

DIAMETER IN INCHES	WIRE ROPE 6X25 & 6X37** (EIPS)		AIRCRAFT CABLE* 7X19		AIRCRAFT CABLE* 7X7		WEIGHT IN LBS PER FOOT		
	IWRC	FC	GALV	SS	GALV	SS	IWRC	FC	A/C
1/16	--	--	--	--	.24	.24	--	--	.008
3/32	--	--	--	.46	.50	.46	--	--	.016
1/8	--	--	1.00	.88	.85	.88	--	--	.029
5/32	--	--	1.40	1.20	--	1.20	--	--	.045
3/16	--	--	2.10	1.85	1.85	--	--	--	.065
7/32	--	--	2.80	2.50	--	--	--	--	.086
1/4	3.40	3.02	3.50	3.20	3.10	--	.12	.11	.110
5/16	5.27	4.69	4.90	4.50	--	--	.18	.16	.173
3/8	7.55	6.72	7.20	6.00	--	--	.26	.24	.243
7/16	10.20	9.10	--	--	--	--	.35	.32	--
1/2	13.30	11.80	--	--	--	--	.46	.42	--
9/16	16.80	14.90	--	--	--	--	.59	.53	--
5/8	20.60	18.30	--	--	--	--	.72	.66	--
3/4	29.40	26.20	--	--	--	--	1.04	.95	--
7/8	39.80	35.40	--	--	--	--	1.42	1.29	--
1	51.70	46.00	--	--	--	--	1.85	1.68	--
1 1/8	65.00	57.80	--	--	--	--	2.34	2.13	--
1 1/4	79.90	71.10	--	--	--	--	2.89	2.63	--
1 3/8	96.00	85.50	--	--	--	--	3.50	3.18	--
1 1/2	114.00	101.00	--	--	--	--	4.16	3.78	--

* Not intended for aircraft use. Designed for industrial and marine applications.
** 6x25 and 6x37 breaking strengths are the same.

NOTE: Extra Improved Plow Steel (EIPS) - the use of IPS grade is no longer recommended.

Vinyl coated breaking strengths are equal to uncoated aircraft cable.

Observe rated capacity.
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