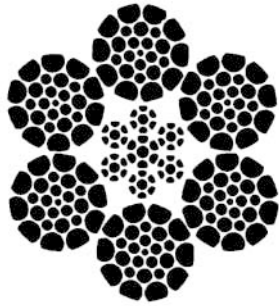


Rope Characteristics

- Offer increased breaking strengths
- Are compacted, with manufacturing practices varying from swaging to die drawing
- Recommended for demanding applications where conditions are abusive such as boom hoist ropes and various logging applications
- Show greatly improved resistance to fatigue, abrasion and multilayer drum crushing

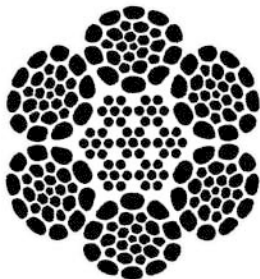


6-Pac™

- Recommended for boom hoist and other applications where rope is subjected to heavy use or extreme conditions
- Manufactured right regular lay in 6x19 and 6x37 Classification constructions, depending upon diameter
- Provides improved resistance to fatigue, abrasion and drum crushing
- Offers excellent flexibility
- Yields EEIP breaking strength

6-Pac RV™

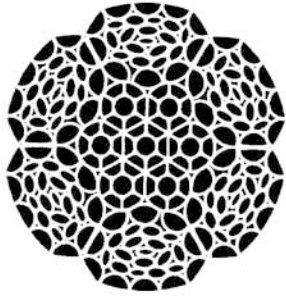
- Recommended for severe boom hoist applications where increased service over flattened strand and alternate lay ropes is desired
- Manufactured in right alternate lay in both 6x19 and 6x37 Class constructions, depending upon diameter
- Provides a service life 100% greater than flattened strand and alternate lay ropes in most applications
- Offers EEIP breaking strength



Super-B® swaged

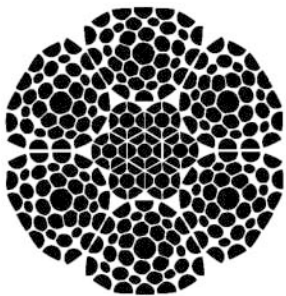
- Recommended for applications where abrasion and fatigue resistance is required, such as for winch lines, chokers, sky-lines, and haulbacks, as well as any application where a swaged rope is used
- Manufactured right regular lay in a 6x26 construction
- Provides excellent resistance to abrasion and multilayer drum crushing
- Offers EEIP+ breaking strength

Specialized Wire Ropes



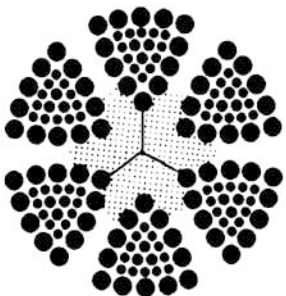
Super-Pac™

- Recommended for applications where superior abrasion and fatigue resistance is needed, and high strength is desired
- Used for boom hoist ropes, tubing lines, running lines, haulbacks, skidding lines, skylines, mainlines, and grapple and swing yarder applications
- Manufactured right regular lay in a 6x26 construction
- Provides superior resistance to abrasion and fatigue
- Offers EEEIP+ breaking strength



Triple-Pac™

- Recommended for the most demanding hoist applications such as boom hoist ropes, boom pendants and multipart load lines
- Manufactured right regular lay in a 6x37 Class construction
- Offers EEEIP+ breaking strength (35% above EIP)
- Provides superior resistance to multilayer drum crushing, fatigue and abrasion

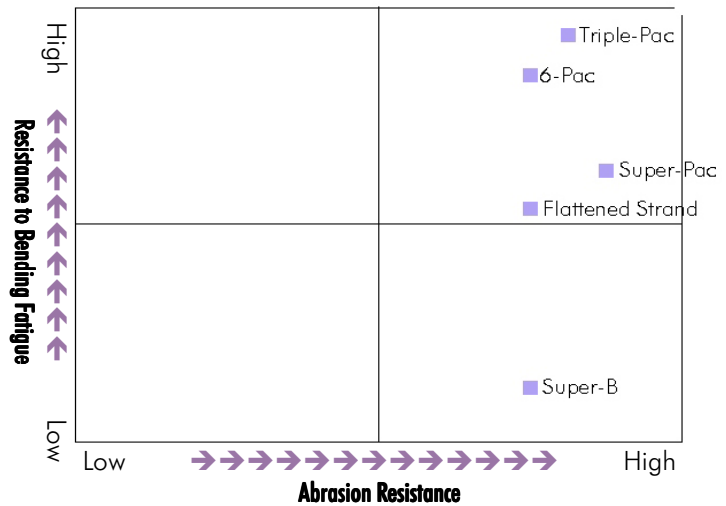


Flattened Strand

- Suitable where severe conditions of crushing and abrasion are encountered on the drum, or where a higher design factor is required than can be obtained with a similar round rope
- Recommended for boom hoist ropes and friction-drive shaft hoist ropes
- Offered in right or left Lang lay in a 6x27 construction with either a fiber core or IWRC
- Manufactured in EIP grade
- Provides good resistance to multilayer drum crushing and abrasion
- Minimizes sheave and drum wear

Specialized Wire Ropes

Two factors governing most decisions in selecting wire rope are abrasion resistance and resistance to bending fatigue. A graphic presentation of the balance between these properties has traditionally been given by means of the X-chart. However, new designs of wire rope, such as Super-Pac, do not follow the X-chart model as they are designed to provide both abrasion resistance and resistance to bending fatigue. WW, therefore, developed the Modified X-chart. To read the Modified X-chart, the position of each wire rope must be considered in relation to both the X and Y axes, or Abrasion Resistance and Resistance to Bending Fatigue, respectively. For example, 6-Pac is in the upper right quadrant, ranking high in fatigue resistance (as well as abrasion resistance). Super-B, on the other hand, offers the same amount of abrasion resistance, but much lower resistance to bending fatigue.



ROPE DIAMETER		APPROX. WEIGHT (lb./ft.)						NOMINAL STRENGTH (tons)*					
inches	mm.	Flattened Strand		6-Pac	Super-B	Super-Pac	Triple-Pac	Flattened Strand		6-Pac	Super-B	Super-Pac	Triple-Pac
		Fiber	IWRC	6-Pac RV	IWRC	IWRC	IWRC	Fiber	IWRC	IWRC	IWRC	IWRC	IWRC
3/8	9.5	--	--	0.285	--	--	--	--	--	8.31	--	--	--
7/16	11.0	--	--	0.388	--	--	0.412	--	--	11.2	--	--	13.8
1/2	13.0	--	--	0.503	0.617	0.648	0.543	--	--	15.5	16.0	18.6	18.0
9/16	14.5	--	--	0.642	0.773	0.810	0.680	--	--	18.5	21.0	23.5	22.7
5/8	16.0	--	--	0.795	0.962	0.955	0.840	--	--	22.7	26.2	28.8	27.8
3/4	19.0	--	--	1.143	1.36	1.430	1.297	--	--	32.3	36.0	40.0	39.7
7/8	22.0	--	--	1.547	1.84	1.920	1.646	--	--	43.8	47.4	52.0	53.7
1	26.0	--	--	2.075	2.28	2.370	2.147	--	--	56.9	63.0	68.0	69.8
1-1/8	29.0	2.28	2.39	2.575	2.86	2.960	2.722	63.7	68.5	71.5	79.5	85.0	87.8
1-1/4	32.0	2.81	2.95	3.169	3.44	3.510	3.297	78.1	84.0	87.9	92.5	102.0	107.9
1-3/8	35.0	3.40	3.57	3.758	4.04	4.120	3.997	94.1	101.0	106.0	111.0	120.0	129.6
1-1/2	38.0	4.05	4.25	4.564	4.74	4.840	4.839	111.0	119.0	125.0	130.0	140.0	153.9
1-5/8	41.3	4.75	4.99	5.356	--	--	--	130.0	140.0	146.0	--	--	--
1-3/4	45.5	5.51	5.79	6.212	--	--	--	150.0	161.0	169.0	--	--	--
1-7/8	48.0	6.33	6.65	7.020	--	--	--	171.0	184.0	192.0	--	--	--
2	52.0	7.20	7.56	--	--	--	--	194.0	207.0	--	--	--	--
2-1/8	54.0	8.13	8.54	--	--	--	--	217.0	233.0	--	--	--	--
2-1/4	58.0	9.10	9.56	--	--	--	--	242.0	260.0	--	--	--	--

*Acceptance strength is not less than 2-1/2% below the nominal strengths listed. Tons of 2,000 lbs.



Wire Rope Works, Inc.
 manufacturer of Bethlehem Wire Rope®

100 Maynard Street
 Williamsport Pennsylvania 17701 USA
 telephone: 570-326-5146 facsimile: 570-327-4274
www.wireropeworks.com



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