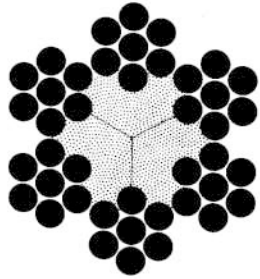


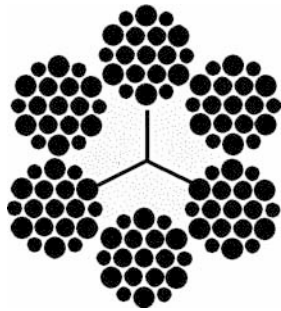
Rope Characteristics

- *Are the most widely used wire ropes for both operating ropes and slings*
- *Offer a wide range of constructions and diameters, lays and cores*
- *Are manufactured from round wires and strands*
- *Do not offer the enhanced features of the specialized and plastic-infused wire rope products*



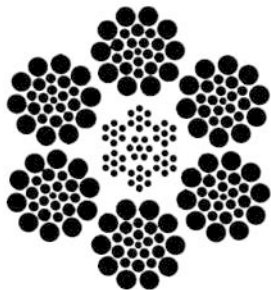
6x7 Classification

- Recommended for use where the rope is dragged over the ground or over rollers, and resistance to wear and abrasion are important factors
- Provides excellent abrasion resistance, but poor flexibility
- Typically used in the oilfield applications such as coring, sand and swabbing lines
- Manufactured in IPS grade in a 6x7 construction
- Offered in right and left regular and Lang lays
- Manufactured with a fiber core

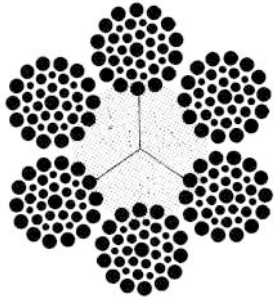


6x19 Classification

- Recommended for use where a good balance of flexibility and wear resistance is desired
- Includes any rope with 19 to 26 wires per strand
- Used in all markets in applications such as rotary drill lines, tubing lines, hoist ropes, trolley lines, boom and auxiliary lines, anchor lines, winch lines, choker ropes, etc.
- Provides improved abrasion resistance over 6x37 Classification wire ropes
- Manufactured in both EIP and EEIP grades, in a wide variety of constructions including:
 - 6x19 Seale
 - 6x19 Warrington (shown with a fiber core)
 - 6x21 Filler Wire
 - 6x25 Filler Wire
 - 6x25 Seale
 - 6x26 Warrington Seale (shown with an IWRC)
- Offered in right and left regular and Lang lays
- Available with either a fiber core or IWRC

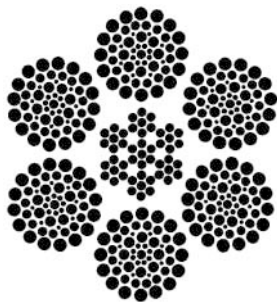
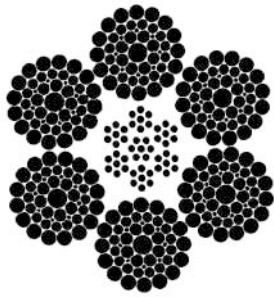


Standard Wire Ropes



6x37 Classification

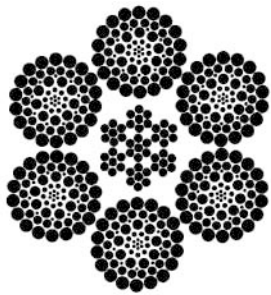
- Recommended for use where flexibility is the key issue
- Used in applications such as riser tensioner lines, mooring lines, tag lines, hoist ropes, crowd and retract ropes, closing lines, etc.
- Includes any rope with 27 to 49 wires per strand
- Provides improved flexibility over 6x19 Classification wire ropes, but does not offer the same level of abrasion resistance
- Manufactured in EIP, EEIP and Excavator Family grades in a wide variety of constructions including:
 - 6x31 Warrington Seale
 - 6x33 Warrington 2-op
 - 6x36 Warrington Seale (shown with a fiber core)
 - 6x41 Warrington Seale
 - 6x43 Filler Wire Seale
 - 6x49 Filler Wire Seale (shown with an IWRC)
- Offered in right and left regular and Lang lays
- Available with either a fiber core or IWRC



6x61 Classification

6x91 Classification

- Recommended for use where flexibility is needed in large diameter wire ropes
- Used predominately in mining applications, such as for hoist and drag ropes
- 6x61 Classification includes any rope with 50 to 74 wires per strand
- 6x91 Classification includes any rope with 75 to 109 wires per strand
- Manufactured in Excavator Family grades, in the following constructions:
 - 6x50 Seale Filler Wire Seale
 - 6x57 Seale Filler Wire Seale (shown)
 - 6x64 Seale Filler Wire Seale
 - 6x70 Seale Filler Wire Seale (shown)
 - 6x77 Seale Filler Wire Seale
- Offered in right and left Lang lays
- Manufactured with an IWRC



Standard Wire Ropes

ROPE DIAMETER		6x7 CLASSIFICATION		6x19 and 6x37 CLASSIFICATIONS				
		APPROX. WEIGHT (lb./ft.)	NOMINAL STRENGTH* IPS (tons)	APPROX. WEIGHT (lb./ft.)		NOMINAL STRENGTH (tons)		
				EEIP	EIP	EEIP	EIP	
inches	mm.	Fiber		Fiber	IWRC	IWRC	Fiber	IWRC
1/4	6.5	0.094	2.64	0.105	0.116	3.74	3.02	3.40
5/16	8.0	0.15	4.10	0.164	0.18	5.80	4.69	5.27
3/8	9.5	0.21	5.86	0.236	0.26	8.31	6.71	7.55
7/16	11.0	0.29	7.93	0.32	0.35	11.2	9.09	10.2
1/2	13.0	0.38	10.3	0.42	0.46	14.6	11.8	13.3
9/16	14.5	0.48	13.0	0.53	0.59	18.5	14.9	16.8
5/8	16.0	0.59	15.9	0.60	0.72	22.7	18.3	20.6
3/4	19.0	0.84	22.7	0.95	1.04	32.3	26.2	29.4
7/8	22.0	1.15	30.7	1.29	1.42	43.8	35.4	39.8
1	26.0	1.50	39.7	1.68	1.85	56.9	46.0	51.7
1-1/8	29.0	1.90	49.8	2.13	2.34	71.5	57.0	65.0
1-1/4	32.0	2.34	61.0	2.63	2.80	87.9	71.0	79.9
1-3/8	35.0	2.84	73.1	3.18	3.50	106.0	85.4	96.0
1-1/2	38.0	3.38	86.2	3.78	4.16	125.0	101.0	114.0
1-5/8	42.0	--	--	4.44	4.88	146.0	118.0	132.0
1-3/4	45.0	--	--	5.15	5.67	169.0	136.0	153.0
1-7/8	48.0	--	--	5.91	6.50	192.0	155.0	174.0
2	52.0	--	--	6.72	7.39	217.0	176.0	198.0
2-1/8	54.0	--	--	7.59	8.35	243.0	197.0	221.0
2-1/4	58.0	--	--	8.51	9.36	272.0	220.0	247.0
2-3/8	60.0	--	--	9.48	10.4	301.0	244.0	274.0
2-1/2	64.0	--	--	10.5	11.6	332.0	269.0	302.0
2-3/4	70.0	--	--	12.7	14.0	397.0	321.0	361.0
3	76.0	--	--	--	16.6	Ropes manufactured in the Excavator Family grades are designed for performance, not strength. WWW does not publish breaking strengths for these wire ropes.		
3-1/8	79.0	--	--	--	18.0			
3-1/4	83.0	--	--	--	19.5			
3-3/8	86.0	--	--	--	21.0			
3-1/2	89.0	--	--	--	22.7			
3-5/8	92.0	--	--	--	24.30			
3-3/4	95.0	--	--	--	26.00			
3-7/8	98.0	--	--	--	27.80			
4	102.0	--	--	--	29.60			
4-1/4	108.0	--	--	--	33.30			
4-3/8	111.0	--	--	--	35.30			
4-1/2	114.0	--	--	--	37.40			
4-3/4	121.0	--	--	--	41.70			
5	127.0	--	--	--	46.20			

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



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