



Bethlehem Fiber Core Elevator Ropes

Wire Rope Works, Inc. manufactures Bethlehem Elevator Rope in a variety of diameters, constructions, lays and grades.

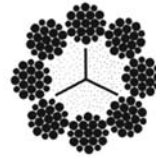


ELEVATOR
PRODUCTS

8 x 19 Standard Elevator Rope Technical Data

Diameter		8 x 19 Class (8x19 Warrington, 8x19 Seale, 8x19 Filler Wire, 8x25 Filler Wire)			
		Approx. Wt. (lb/ft)	Nominal Strength (lbs)		
(in.)	(mm)		Iron	Traction	EHS Traction
1/4	6.4	0.09	1,800	3,600	4,500
5/16	7.9	0.14	2,900	5,600	6,900
3/8	9.5	0.20	4,200	8,200	9,900
7/16	11.1	0.28	5,600	11,000	13,500
1/2	12.7	0.36	7,200	14,500	17,500
9/16	14.3	0.46	9,200	18,500	22,100
5/8	16.0	0.57	11,200	23,000	27,200
11/16	17.5	0.69	13,400	27,000	32,800
3/4	19.1	0.82	16,000	32,000	38,900
13/16	20.6	0.96	18,600	37,000	46,000
7/8	22.2	1.11	21,400	42,000	52,600
15/16	23.8	1.27	24,600	48,000	60,000
1	25.4	1.45	28,000	54,000	68,400
1-1/16	27.0	1.64	-	61,000	77,000

For the availability of larger diameters, contact your ALP Sales Representative.



8 x 19 Warrington
through 7/16" diameter



8 x 19 Seale
3/8" diameter and larger



8 x 21 Filler Wire
1/2" diameter and larger

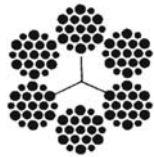


8 x 25 Filler Wire
1/2" diameter and larger

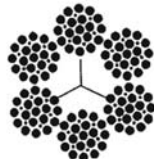
6 x 19 Standard Elevator Rope Technical Data

Diameter		6 x 19 Class (6x19 Warrington, 6x25 Filler Wire)			
		Approx. Wt. (lb/ft)	Nominal Strength (lbs)		
(in.)	(mm)		Iron	Traction	EHS Traction
1/4	6.4	0.10	2,200	3,600	5,200
5/16	7.9	0.16	3,200	5,600	8,100
3/8	9.5	0.23	5,000	8,200	11,600
7/16	11.1	0.31	6,400	11,000	15,700
1/2	12.7	0.40	8,400	14,500	20,400
9/16	14.3	0.51	10,600	18,500	25,700
5/8	16.0	0.63	12,800	23,000	31,600
11/16	17.5	0.76	15,500	27,000	38,200
3/4	19.1	0.90	18,200	32,000	45,200
13/16	20.6	1.06	21,500	37,000	52,900
7/8	22.2	1.23	24,800	42,000	61,200
15/16	23.8	1.41	28,500	48,000	70,000
1	25.4	1.60	32,000	54,000	79,500
1-1/16	27.0	1.81	-	61,000	89,400

For the availability of larger diameters, contact your ALP Sales Representative.



6 x 19 Warrington
through 5/16" diameter



6 x 25 Filler Wire
3/8" diameter and larger



Bethlehem Liftpac Elevator Rope

Liftpac is recommended for those applications where:

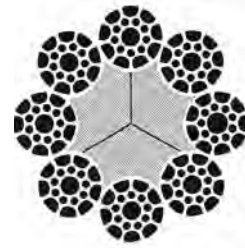
- Adverse operating conditions exist, such as where loads and groove pressures are high.
- Reverse bends exist.
- Fatigue breakage with minimal surface wear is the primary factor for retirement.

Liftpac is not designed to remedy poor rope performance due to worn sheaves and/or differential groove depths. Under these conditions, unsatisfactory rope performance is a result of the condition of installation.



Liftpac Elevator Rope Technical Data

Diameter		Liftpac		
		Approx. Wt. (lb/ft)	Nominal Strength (lbs)	
(in.)	(mm)			Traction
3/8	9.5	0.23	9,000	11,000
1/2	12.7	0.39	16,000	19,400
5/8	15.9	0.62	25,400	30,800



FEATURES

Fatigue Resistance - The compacted strand surface minimizes the interstrand and interlayer nicking that takes place in elevator ropes, dramatically decreasing the amount of internal breaks. This reduction of internal wire breakage can also be expressed as an increase in reserve strength. By decreasing internal breakage at the interstrand contact points, Liftpac maintains its strength longer than standard elevator rope in severe bending applications.

Abrasion Resistance - Liftpac's compacted strand design provides improved abrasion resistance when compared with 8-strand ropes because of the increased wire and strand surfaces contacting the sheaves and drums.

Resistance To Diameter Reduction - Liftpac's compacted design resists diameter reduction due to the higher metallic content and less core deterioration at the strand contact area.

Noise Reduction - Liftpac's compacted surface passes smoothly over drums and sheaves, allowing for an extremely quiet running rope.

INSPECTION

Due to Liftpac's compacted strands, its slightly flattened crown appearance should not be misconstrued as wear. Two methods may be used during inspection to make a distinction between Liftpac and a standard worn rope.

- 1) Check the outer wires in the strand valleys. The crown wires of a worn standard rope will obviously be abraded or worn. As these wires travel into the valleys, however, they resume their normal rounded shape. The wires in a Liftpac rope retain their die drawn state throughout the crown and valleys.
- 2) Check the ropes at the shackles. If Liftpac is being used, the rope wires at the shackles will have the same flattened crown appearance. If the standard rope is worn, the rope wires at the shackles will be rounded.

ASME and CAN/CSA inspection and removal criteria apply.