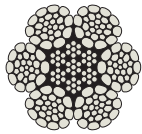


NORTHERN STRANDS

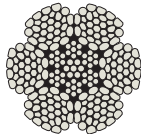
Swaged wire ropes.

6 x 19 and 6 x 36 classification swaged wire rope.

These ropes offer greater strength than standard ropes of the same diameter while providing greater resistance to drum



6 x 19 classification swaged



6 x 36 classification swaged

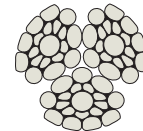
crushing, scrubbing and similar surface wear. To enhance the performance of our swaged ropes in the field, we utilize a special wire chemistry in the outer wires of the strands. Then during production, the rope is rotary swaged to produce a compact cross-section with minimum voids and greater surface area on outer wires. In addition to reducing rope surface wear, this compact design helps reduce wear to sheaves and minimizes crushing of the rope on the drum.

Minimum breaking force and weights for 6 x 19 classification and 6 x 36 classification swaged wire ropes.

Diameter (in.)	Approx. wt./ft. (lbs.)	Minimum breaking force (tons of 2,000 lbs.)
3/8	0.31	9.1
7/16	0.42	12.2
1/2	0.55	16.0
9/16	0.71	20.2
5/8	0.96	24.7
3/4	1.32	35.3
7/8	1.70	47.8
1	2.22	62.0
1 1/8	2.66	79.3
1 1/4	3.47	97.5
1 3/8	4.20	117

3 x 19 and 3 x 36 classification swaged wire rope.

These 3 strand ropes are ideal for pulling lines in electrical transmission line construction. Rotary swaging the rope results in an exceptionally compact rope cross-section. This increases surface area, which improves rope contact with sheaves and on drums, thereby providing greater resistance to surface wear and abrasion while reducing wear on sheaves. The smooth surface also helps reduce wear on underground conduits. Lengths may be fitted with flemish-eye ends. Please specify whether eye is to be on inside or outside of the reel, or at both ends.



3 x 19 classification swaged

Minimum breaking force and weights for 3 x 19 classification and 3 x 36 classification swaged wire ropes.

Diameter (in.)	Approx. wt./ft. (lbs.)	Minimum breaking force (tons of 2,000 lbs.)
3/16	0.074	2.14
1/4	0.131	3.77
5/16	0.205	5.86
3/8	0.30	8.39
1/2	0.53	14.8
9/16	0.66	18.6
5/8	0.83	22.9
3/4	1.19	32.7
7/8	1.69	44.3
1	2.09	57.5

PowerFlex®

PowerFlex is compacted not once, but twice, to yield excellent strength for your logging applications. PowerFlex works hard to lift your heavy loads while resisting drum crushing and giving you better spooling performance, with greater resistance to stretch.

PowerFlex keeps its structural integrity and its size to add longer service life to your logging wire ropes.

Minimum breaking force and weights for PowerFlex ropes.

Diameter (in.)	Approximate wt./ft. (lbs.)	Minimum breaking force (tons of 2,000 lbs.)
9/16	0.83	24.0
5/8	1.0	28.0
3/4	1.5	43.0
7/8	2.1	57.5
1	2.7	75.5
1 1/8	3.5	93.0

WIRE ROPE PRODUCTS