



# Product BULLETIN

Wire Rope Corporation of America

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## Design, manufacturing modifications improve performance and value of new Flex-X<sup>®</sup> 19 PS

Proven in many hoist applications to help solve block and load rotation problems, WRCA's Flex-X<sup>®</sup> 19 has undergone refinements designed to enhance performance characteristics and retain consistently high quality. The result is the new Flex-X 19 PS with PowerSteel<sup>®</sup> Technology. High density, compacted strand construction gives Flex-X 19 PS much greater crush resistance—even in multiple layer spooling—than a standard 19x7 while providing equal rotation resistance.

In addition to outstanding crush resistance, handling, operating and spooling characteristics, Flex-X 19 PS also provides a 5% increase in minimum breaking force (MBF) over standard Flex-X 19. Remember, when Flex-X 19 PS (or any rotation resistant rope) is used to replace a standard 6-strand rope as a hoist on a mobile crane, a design factor of 5 must be used to determine maximum rope lifting capacity instead of a design factor of 3.5. Since other criteria may limit crane lifting capacity, contact the crane manufacturer for load chart information.

Because of its unique construction and exacting manufacturing procedures, Flex-X 19 PS is very stable and offers outstanding resistance to bending fatigue. Smooth surfaced and rotation resistant, it also reduces drum scrubbing, abrasion and block twisting in multi-part hoist systems.

PowerSteel Technology developed by, and exclusive to, WRCA has been incorporated into the new Flex-X 19 PS. The technology integrates all phases of wire rope design and manufacturing into a single unified system. From application analysis, to engineering design, state of the art metallurgy, innovative manufacturing techniques and control, and even to product handling, each step is evaluated, monitored, and recorded to assure the highest standards of quality and performance.

Flex-X 19 PS must be securely seized before cutting. The use in a single-part hoist with an end free to rotate is not recommended.

**Flex-X 19 PS**

Diameter (inches)	Approximate Wt/ft. (pounds)	Minimum Breaking Force (tons of 2000 lbs.)
3/8	0.31	8.7
7/16	0.40	11.8
1/2	0.54	15.4
9/16	0.69	19.4
5/8	0.85	23.8
3/4	1.25	34.0
7/8	1.68	46.0
1	2.17	59.8
1-1/8	2.75	75.2