



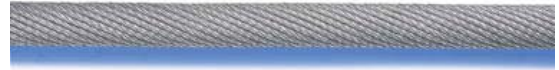
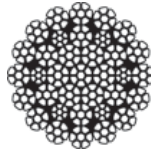
Tested, Tough & True.



## PRODUCT CATALOG

### Flex-X 35

- ▶ Category 1, rotation resistant rope
- ▶ Maximum strength per diameter
- ▶ Can be used with a swivel
- ▶ Crush resistant



Rotation resistance and minimum torque are important in tower crane and other specialized hoisting applications. Flex-X 35 features a unique design that minimizes the torque and rotation of the rope at normal load ranges of zero to 20% of the rope's minimum breaking force (MBF). In addition, Flex-X 35 is engineered to give you maximum strength per diameter while also achieving superior fatigue resistance. These factors combine to give you the maximum service life when you have long block falls or load control is critical.

**Swivels can be used in your system with Flex-X 35.**

Flex-X 35 wire rope has one of the highest strength-to-diameter ratios on the market. ASME B30.5 Mobile and Locomotive Cranes requires a design factor of 3.5 for 6-strand hoist ropes. The same standard requires a design factor of 5.0 for rotation resistant ropes. This means that using rotation resistant ropes frequently reduces the lifting capabilities of your crane due to the higher design factor.

**Flex-X 35 eliminates this reduction.** The MBF of Flex-X 35 is such that even with the 5.0 design factor, it has lifting capacities that equal or exceed 6-strand XIP ropes utilizing a 3.5 design factor. Other ropes of similar grade and construction do not provide this benefit.

The characteristics of Flex-X 35 enhance its performance in multiple-layer spooling as well. The lang lay design coupled with the special Flex-X features provide excellent resistance to abrasion that occurs at kickover areas in drum spooling. The rope construction combined with the compacted strand design of Flex-X 35 results in a rope cross-section of very high density. This feature provides increased resistance to crushing.

### Flex-X 35 Strength and Weights Chart (millimeters)

Diameter (in)	Weight (lb/ft)	Minimum Breaking Force (tons of 2000 lbs)
16*	0.85	30.6
19*	1.22	42.9
22	1.65	57.2
25.4	2.19	75.8
26*	2.30	79.3
28*	2.67	91.6
30*	3.08	105
32	3.50	119
*Standard inventory items		

### RELATED INFORMATION

[View Flex-X 35 Product Bulletin](#)

Union, a WireCo WorldGroup brand, produces wire rope for a variety of applications – each with their own exacting specifications. We employ the most experienced, talented, licensed engineers in the industry to design solutions for your application. Eight WireCo WorldGroup manufacturing operations and seven distribution centers in North America, plus manufacturing facilities in Mexico, Germany and China, give our customers unparalleled support and global reach. Find out for yourself why Union wire ropes have proven themselves time and time again in the field. **Union: Tested, Tough & True.**

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