



# ELEVATOR PRODUCTS

## Elevator Wire Rope

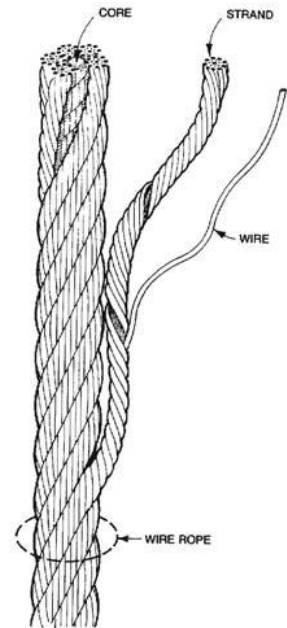
### Wire Rope Specification

Elevator Wire Rope is specified by its diameter, construction, finish, grade, lay, preforming, and core.

Diameter is expressed in inches or millimeters and is the diameter of the smallest circle which can be circumscribed about the rope. The rope construction is generally stated as the number of outside strands and the number of wires per strand.

A **Bright** finish, **Right Regular Lay**, and **Fiber Core** are understood to be specified unless otherwise stated.

Prestretching, galvanized finish, left lay, lang lay, special fiber core, non-preformed wire rope, and independent wire rope core are all available for special ordering.



### Technical Bulletins

Wirerope Works, Inc. (manufacturer of Bethlehem Elevator Wire Rope®) publishes service and technical bulletins on topics which affect the operation and service life of elevator wire rope. These include:

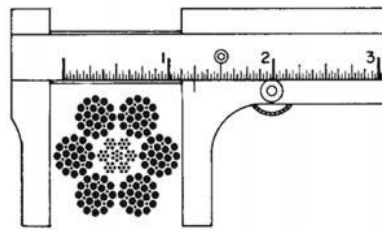
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|-------------------------------|-------------------------------------|
| 1. Elevator Rope Nomenclature | 9. Fatigue                          |
| 2. Elevator Rope Lubrication  | 10. Sheaves and Grooves             |
| 3. Elevator Rope Rouging      | 11. Vibration                       |
| 4. Elevator Rope Slippage     | 12. Moisture                        |
| 5. Elevator Rope Stretch      | 13. Twist and Torque                |
| 6. Lubricant Build-Up         |                                     |
| 7. Traction Sheave Hardness   | SB1. Elevator Rope Investigation #1 |
| 8. Tensioning                 | SB2. Elevator Investigation #2      |



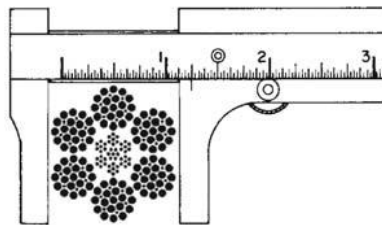
### Wire Rope Diameter

The first differentiation of wire rope is by diameter. Generally, a new wire rope is manufactured to its nominal diameter + 2 1/2%.

This allows for the normal reduction of diameter experienced when a new rope is placed under load.



The RIGHT Way



The WRONG Way